

Solicap S FTI77

Point level switch, capacitance.
High temperature probe.
Application: Solids.
Total length of probe L = L1+L3+
isolation ceramic.
:: Start up via push button.
:: Robust version.

FTI77-
71076010
SPK: FAA



Solicap S FTI77

Approval:

- A Non-hazardous area
- B ATEX II 1/3D Ex tD
- C ATEX II 1/2D Ex tD
- F ATEX II 1D,1/2D, 1/3D Ex ia D20 T90oC
- L CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, CSA: zone 0,1,2/FM: zone 0,1,2,20,21,22
- M CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2,21,22
- N CSA/FM DIP Cl.II,III Div.1+2 Gr.E-G, FM: zone 21,22
- Y Special version, TSP-no. to be spec.

Application:

- 1 Solid, fine-grained
- 2 Solid, coarse-solids
- 9 Special version, TSP-no. to be spec.

Inactive Length L3:

- A Not selected
- B 200mm, steel
- C 400mm, steel
- E 200mm, 316L
- F 400mm, 316L
- G xxx mm, 316L
- H xxx mm, 316L+125mm active build-up protection, 316L
- L 8inch, steel
- M 16inch, steel
- N 8inch, 316L
- P 16inch, 316L
- R xxx inch, 316L
- S xxx inch, 316L+5inch active build-up protection, 316L
- Y Special version, TSP-no. to be spec.

Active Probe Length L1:

- AB 200mm, sword, steel
- AC 400mm, sword, steel
- AD 700mm, sword, steel
- BB 200mm, sword, 316L
- BC 400mm, sword, 316L
- BR xxx mm, sword, 316L
- CR xxx mm, 6mm rope, steel zinc coated, tension weight steel
- CS xxx mm, 12mm rope, steel zinc coated, tension weight steel
- DR xxx mm, 6mm rope, 316, tension weight 316L
- DS xxx mm, 12mm rope, 316, tension weight 316L
- EB 8inch, sword, steel
- EC 16inch, sword, steel
- ED 28inch, sword, steel
- FB 8inch, sword, 316L
- FC 16inch, sword, 316L
- FR xxx inch, sword, 316L
- GR xxx inch, 0.24" rope, steel zinc coated, tension weight steel
- GS xxx inch, 0.47" rope, steel zinc coated, tension weight steel
- HR xxx inch, 0.24" rope, 316, tension weight 316L
- HS xxx inch, 0.47" rope, 316, tension weight 316L
- VV Connecting thread, prepared for active probe length
- YY Special version, TSP-no. to be spec.

Process Connection:

RV1 Thread EN10226 R1-1/2, steel
RVJ Thread EN10226 R1-1/2, 316L
RG1 Thread ANSI NPT1-1/2, steel
RGJ Thread ANSI NPT1-1/2, 316L
B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
BT1 DN100 PN10/16 A, steel flange EN1092-1 (DIN2527 B)
AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
AH1 4" 150lbs RF, steel flange ANSI B16.5
KFJ 10K 50A RF, 316L flange JIS B2220
KGJ 10K 80A RF, 316L flange JIS B2220
KHJ 10K 100A RF, 316L flange JIS B2220
KH1 10K 100A RF, steel flange JIS B2220
YY9 Special version, TSP-no. to be spec.

Electronics; Output:

1 FEI51; 2-wire 19-253VAC
2 FEI52; 3-wire PNP 10-55VDC
4 FEI54; relay DPDT, 19-253VAC, 19-55VDC
5 FEI55; 8/16mA, 11-36VDC
3 FEI53; 3-wire 3-12V signal
7 FEI57S; 2-wire PFM
8 FEI58; NAMUR+test button (H-L signal)
W Prepared for FEI5x
Y Special version, TSP-no. to be spec.

Housing:

1 F15 316L Hygiene IP66 NEMA4X
2 F16 Polyester IP66 NEMA4X
3 F17 Alu IP66 NEMA4X
4 F13 Alu IP66 NEMA4X + gas-tight probe seal
5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
6 F27 316L IP68 NEMA6P + gas-tight probe seal
9 Special version, TSP-no. to be spec.

Cable Entry:

A Gland M20
B Thread G1/2
C Thread NPT1/2
D Thread NPT3/4
G Thread M20
E Plug M12
Y Special version, TSP-no. to be spec.

Type Of Probe:

1 Compact
2 2000mm L4 cable > separate housing
3 xxx mm L4 cable > separate housing
4 80inch L4 cable > separate housing
5 xxx inch L4 cable > separate housing
9 Special version, TSP-no. to be spec.

Additional Option:

A Basic version
D EN10204-3.1 material (316L pressurized) inspection certificate
F SIL declaration of conformity
Y Special version, TSP-no. to be spec.

>>Marking:

Z1 Tagging (TAG), see additional spec.

Liquicap M FMI51

Level measurement, capacitive.
Continuous.
Rod probe, fully insulated.
Application: liquids.
Total length of probe L = L1+L3.
:: Precalibrated 0-100% at factory for
conductive liquids.
:: Fast measurement reaction time.
:: Longtime stable tightness.

FMI51-
52027317
SPK: FAA



Liquicap M FMI51

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- C ATEX II 1/2G Ex ia IIC T6, ATEX II 1/2D Ex iaD 20 T90oC
- D ATEX II 1/2G Ex ia IIC T6, WHG, ATEX II 1/2D Ex iaD 20 T90oC
- E ATEX II 1/2G Ex ia IIB T6, ATEX II 1/2D Ex iaD 20 T90oC
- F ATEX II 1/2G Ex ia IIB T6, WHG ATEX II 1/2D Ex iaD 20 T90oC
- H ATEX II 1/2G Ex ia IIC T6, XA, ATEX II 1/2D Ex iaD 20 T90oC, note safety instruction (XA) (electrostatic charging)!

- J ATEX II 1/2G Ex ia IIC T6, WHG, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!

- K ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!

- L ATEX II 1/2G Ex d (ia) IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!

- M ATEX II 3G Ex nA II T6, WHG ATEX II 3D Ex tD IP65 A22 T100oC
- N CSA General Purpose, CSA C/US
- P CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, CSA: zone 0,1,2
- R CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, CSA: zone 0,1,2
- S TIIS Ex ia IIC T3
- T TIIS Ex d IIC T3
- 1 NEPSI Ex ia IIC T6
- 2 NEPSI Ex d(ia) IIC T6
- 4 NEPSI Ex nA II T6
- 5 IECEx Ga/Gb Ex ia IIC T6; Ex iaD 20/ Ex tD A21
- 6 IECEx Ga/Gb Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- 1 not selected
- 2 xxx mm, 316L
- 3 xxx mm, fully insulated PTFE>316L
- 5 xxx inch, 316L
- 6 xxx inch, fully insulated PTFE>316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1; Insulation:

- A xxx mm, 10mm rod, 316L; PTFE
- B xxx mm, 16mm rod, 316L; PTFE
- C xxx mm, 22mm rod, 316L; PTFE
- D xxx mm, 16mm rod, 316L; PFA
- E xxx mm, 10mm rod,316L;PTFE+ground tube
- F xxx mm, 16mm rod,316L;PTFE+ground tube
- G xxx mm, 16mm rod, 316L;PFA+ground tube
- H xxx inch, 0.4" rod, 316L; PTFE
- K xxx inch, 0.6" rod, 316L; PTFE
- M xxx inch, 0.9" rod, 316L; PTFE
- N xxx inch, 0.6" rod, 316L; PFA
- P xxx inch, 0.4" rod, 316L;PTFE+ground tube
- R xxx inch, 0.6" rod,316L;PTFE+ground tube
- S xxx inch, 0.6" rod, 316L;PFA+ground tube
- Y Special version, TSP-no. to be spec.

Process Connection:

- GCJ Thread ISO228 G1/2, 316L, 25bar
- GDJ Thread ISO228 G3/4, 316L, 25bar

GEJ Thread ISO228 G1, 316L, 25bar
GGJ Thread ISO228 G1-1/2, 316L, 100bar
RCJ Thread ANSI NPT1/2, 316L, 25bar
RDJ Thread ANSI NPT3/4, 316L, 25bar
REJ Thread ANSI NPT1, 316L, 25bar
RGJ Thread ANSI NPT1-1/2, 316L, 100bar
GQJ Thread ISO228 G3/4, 316L, install > accessory weld-in adapter, 25bar, EHEDG
GWJ Thread ISO228 G1, 316L, install > accessory weld-in adapter, 25bar, EHEDG
MRJ DIN11851 DN50 PN40 slotted-nut, 316L
UPJ Universal adapter 44mm 316L, 16bar
TCJ Tri-Clamp ISO2852 DN25 (1"), 316L, EHEDG
TJJ Tri-Clamp ISO2852 DN38 (1-1/2"), 316L, EHEDG
TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
TJK Tri-Clamp ISO2852 DN38(1-1/2"), PTFE> 316L, 3A, EHEDG
TDK Tri-Clamp ISO2852 DN40-51 (2"), PTFE> 316L, 3A, EHEDG
TNJ Tri-Clamp ISO2852 DN38(1-1/2"),316L,3A, EHEDG, clamp detachable
BOJ DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
B1J DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
B2J DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CRJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
DRJ DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
ERJ DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
CGJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
DGJ DN80 PN16 C, 316L flange EN1092-1 (DIN2512 F)
EGJ DN80 PN16 D, 316L flange EN1092-1 (DIN2512 N)
BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
CHJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
B0K DN25 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
B1K DN32 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
B2K DN40 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
B3K DN50 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
BSK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
BTK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
ACJ 1" 150lbs RF, 316/316L flange ANSI B16.5
ANJ 1" 300lbs RF, 316/316L flange ANSI B16.5
AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
AQJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
ARJ 2" 300lbs RF, 316/316L flange ANSI B16.5
AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
ASJ 3" 300lbs RF, 316/316L flange ANSI B16.5
AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
AUJ 6" 300lbs RF, 316/316L flange ANSI B16.5
ACK 1" 150lbs, PTFE >316/316L flange ANSI B16.5
ANK 1" 300lbs, PTFE >316/316L flange ANSI B16.5
AEK 1-1/2" 150lbs, PTFE >316/316L flange ANSI B16.5
AQK 1-1/2" 300lbs, PTFE >316/316L flange ANSI B16.5
AFK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
ARK 2" 300lbs, PTFE >316/316L flange ANSI B16.5
AGK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
AHK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
KCJ 10K 25A RF, 316L flange JIS B2220
KEJ 10K 40A RF, 316L flange JIS B2220
KFJ 10K 50A RF, 316L flange JIS B2220
KGJ 10K 80A RF, 316L flange JIS B2220
KHJ 10K 100A RF, 316L flange JIS B2220
KRJ 20K 50A RF, 316L flange JIS B2220
KCK 10K 25A RF, PTFE>316L flange JIS B2220
KEK 10K 40A RF, PTFE>316L flange JIS B2220
KFK 10K 50A RF, PTFE>316L flange JIS B2220
KGK 10K 80A RF, PTFE>316L flange JIS B2220

- KHK 10K 100A RF, PTFE>316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- A FEI50H; 4-20mA HART + display
- B FEI50H; 4-20mA HART
- C FEI57C; 2-wire PFM
- V prepared for FEI5x + display, cover high, transparent
- W prepared for FEI5x, cover flat
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
- 2 F16 Polyester IP66 NEMA4X
- 3 F17 Alu IP66 NEMA4X
- 4 F13 Alu IP66 NEMA4X + gas-tight probe seal
- 5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
- 6 F27 316L IP68 NEMA6P + gas-tight probe seal
- 9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20 (EEx d > thread M20)
- B Thread G1/2
- C Thread NPT1/2
- D Thread NPT3/4
- E Plug M12
- Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
- 2 2000mm L4 cable > separate housing
- 3 xxx mm L4 cable > separate housing
- 4 80inch L4 cable > separate housing
- 5 xxx inch L4 cable > separate housing
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B PWIS free, PWIS = paint-wetting impairment substances
- C Metal probe rod surface refining
- D EN10204-3.1 material (316L wetted parts/pressurized) inspection certificate
- E EN10204-3.1 material, NACE MR0175 (316L wetted parts/pressurized) inspection certificate
- F SIL declaration of conformity
- S GL marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Solicap M FTI55

Point level switch, capacitance.
Rod probe.
Application: powder, bulk solids.
Total length of probe L = L1+L3.
:: Start up via push button.
:: Robust version.

FTI55-
71025613
SPK: FAA



Solicap M FTI55

Approval:

- A Non-hazardous area
- B ATEX II 1/3D
- C ATEX II 1/2D
- F ATEX II 1D,1/2D,1/3D, EEx ia D
- K CSA General Purpose, CSA C/US

- L CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, zone 0,1,2,20,21,22
- M CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2,21,22
- N CSA/FM DIP Cl.II,III Div 1+2 Gr.E-G, FM: zone 21,22
- S TIIS Ex ia IIC T3
- 3 NEPSI DIP A21
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- A not selected
- B not selected + active build-up protection 125mm/5inch, 316L
- 1 xxx mm, 316L
- 5 xxx inch, 316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1:

- A xxx mm, steel
- B 325mm, steel
- C xxx mm, 316L
- D 325mm, 316L
- H xxx inch, steel
- K 13inch, steel
- M xxx inch, 316L
- N 13inch, 316L
- Y Special version, TSP-no. to be spec.

Insulation Rod:

- 1 fully insulated PE, max 80oC/175oF
- 2 75mm L2, partial insulated PPS, max 180oC/350oF (Ex max 150oC/300oF)
- 3 3inch L2, partial insulated PPS, max 180oC/350oF (Ex max 150oC/300oF)
- 9 Special version, TSP-no. to be spec.

Process Connection:

- RV1 Thread EN10226 R1-1/2, steel
- RVJ Thread EN10226 R1-1/2, 316L
- RG1 Thread ANSI NPT1-1/2, steel
- RGJ Thread ANSI NPT1-1/2, 316L
- B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- KFJ 10K 50A RF, 316L flange JIS B2220
- KGJ 10K 80A RF, 316L flange JIS B2220
- KHJ 10K 100A RF, 316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEI51; 2-wire 19-253VAC
- 2 FEI52; 3-wire PNP 10-55VDC
- 4 FEI54; relay DPDT, 19-253VAC, 19-55VDC
- 5 FEI55; 8/16mA, 11-36VDC
- 3 FEI53; 3-wire 3-12V signal
- 7 FEI57S; 2-wire PFM
- 8 FEI58; NAMUR+test button (H-L signal)
- W prepared for FEI5x
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
- 2 F16 Polyester IP66 NEMA4X
- 3 F17 Alu IP66 NEMA4X
- 4 F13 Alu IP66 NEMA4X + gas-tight probe seal
- 5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
- 6 F27 316L IP68 NEMA6P + gas-tight probe seal
- 9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20

- B Thread G1/2
- C Thread NPT1/2
- D Thread NPT3/4
- G Thread M20
- E Plug M12
- Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
- 2 2000mm L4 cable > separate housing
- 3 xxx mm L4 cable > separate housing
- 4 80inch L4 cable > separate housing
- 5 xxx inch L4 cable > separate housing
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- D EN10204-3.1 material (316L wetted parts) inspection certificate
- F SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquicap M FTI51

Point level switch, capacitance.
Rod probe.
Application: liquids.
Total length of probe L = L1+L3 (+125mm/
5inch for active build-up protection).
:: Longtime stable tightness.
:: Setting via push button.
:: High temperature / high pressure.

FTI51-
71021779
SPK: FAA



Liquicap M FTI51

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- C ATEX II 1/2G Ex ia IIC T6, ATEX II 1/2D Ex iaD 20 T90oC
- D ATEX II 1/2G Ex ia IIC T6, WHG ATEX II 1/2D Ex iaD 20 T90oC
- H ATEX II 1/2G Ex ia IIC T6, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- J ATEX II 1/2G Ex ia IIC T6, WHG, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- K ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- L ATEX II 1/2G Ex d (ia) IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- G ATEX II 1/2G Ex de(ia) IIC T6, WHG, XA ATEX II 1/2D Ex iaD 20, ATEX Ex tD A21 IP65 T100oC note safety instruction (XA) (electrostatic charging)!
- M ATEX II 3G Ex nA/nL/nC II T6, WHG ATEX II 3D Ex tD IP65 A22 T100oC
- N CSA General Purpose, CSA C/US
- P CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- R CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 1,2,21,22/CSA: zone 1,2
- S TIIS Ex ia IIC T3
- T TIIS Ex d IIC T3
- 1 NEPSI Ex ia IIC T6
- 2 NEPSI Ex d(ia) IIC T6
- 4 NEPSI Ex nA/nC IIC T6
- 5 IECEx Ga/Gb Ex ia IIC T6; Ex iaD 20/ Ex tD A21
- 6 IECEx Ga/Gb Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- A not selected
- B not selected + active build-up protection 125mm/5inch, 316L
- C not selected + fully insulated, active build-up protection 125mm/5inch,PFA>316L

- 1 xxx mm, 316L
- 2 xxx mm, fully insulated PTFE>316L
- 3 xxx mm (<=500mm), 316L + active build-up protection 125mm, 316L
- 4 xxx mm (>500mm), 316L + active build-up protection 125mm, 316L
- 5 xxx inch, 316L
- 6 xxx inch, fully insulated PTFE>316L
- 7 xxx inch (<=20inch), 316L + active build-up protection 5inch, 316L
- 8 xxx inch (>20inch), 316L + active build-up protection 5inch, 316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1; Insulation:

- A xxx mm, 10mm rod, 316L; PTFE
- B xxx mm, 16mm rod, 316L; PTFE
- C xxx mm, 22mm rod, 316L; PTFE
- 1 xxx mm, 14mm rod, 316L; PFA
- D xxx mm, 16mm rod, 316L; PFA
- E xxx mm, 10mm rod,316L;PTFE+ground tube
- F xxx mm, 16mm rod,316L;PTFE+ground tube
- G xxx mm, 16mm rod, 316L;PFA+ground tube
- H xxx inch, 0.4" rod, 316L; PTFE
- K xxx inch, 0.6" rod, 316L; PTFE
- M xxx inch, 0.9" rod, 316L; PTFE
- T xxx inch, 0.55" rod, 316L; PFA
- N xxx inch, 0.6" rod, 316L; PFA
- P xxx inch, 0.4" rod,316L; PTFE+ground tube
- R xxx inch, 0.6" rod,316L;PTFE+ground tube
- S xxx inch, 0.6" rod, 316L;PFA+ground tube
- Y Special version, TSP-no. to be spec.

Insulation:

- 1 fully insulated
- 2 xxx mm L2, partial insulated
- 3 xxx inch L2, partial insulated
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GCJ Thread ISO228 G1/2, 316L, 25bar
- GDJ Thread ISO228 G3/4, 316L, 25bar
- GEJ Thread ISO228 G1, 316L, 25bar
- GGJ Thread ISO228 G1-1/2, 316L, 100bar
- RCJ Thread ANSI NPT1/2, 316L, 25bar
- RDJ Thread ANSI NPT3/4, 316L, 25bar
- REJ Thread ANSI NPT1, 316L, 25bar
- RGJ Thread ANSI NPT1-1/2, 316L, 100bar
- GQJ Thread ISO228 G3/4, 316L, install > accessory weld-in adapter, 25bar, EHEDG
- GWJ Thread ISO228 G1, 316L, install > accessory weld-in adapter, 25bar, EHEDG
- MRJ DIN11851 DN50 PN40 slotted-nut, 316L
- UPJ Universal adapter 44mm 316L, 16bar
- TCJ Tri-Clamp ISO2852 DN25 (1"), 316L, EHEDG
- TJJ Tri-Clamp ISO2852 DN38 (1-1/2"), 316L, EHEDG
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TJK Tri-Clamp ISO2852 DN38(1-1/2"), PTFE> 316L, 3A, EHEDG
- TDK Tri-Clamp ISO2852 DN40-51 (2"), PTFE> 316L, 3A, EHEDG
- TNJ Tri-Clamp ISO2852 DN38(1-1/2"),316L,3A, EHEDG, clamp detachable
- B0J DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B1J DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B2J DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CRJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- DRJ DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
- ERJ DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
- BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CGJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- DGJ DN80 PN16 C, 316L flange EN1092-1 (DIN2512 F)
- EGJ DN80 PN16 D, 316L flange EN1092-1 (DIN2512 N)
- BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CHJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)

B0K DN25 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B1K DN32 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B2K DN40 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B3K DN50 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 BSK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 BTK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 ACJ 1" 150lbs RF, 316/316L flange ANSI B16.5
 ANJ 1" 300lbs RF, 316/316L flange ANSI B16.5
 AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AQJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
 AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
 ARJ 2" 300lbs RF, 316/316L flange ANSI B16.5
 AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
 ASJ 3" 300lbs RF, 316/316L flange ANSI B16.5
 AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
 ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
 AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
 AUJ 6" 300lbs RF, 316/316L flange ANSI B16.5
 ACK 1" 150lbs, PTFE >316/316L flange ANSI B16.5
 ANK 1" 300lbs, PTFE >316/316L flange ANSI B16.5
 AEK 1-1/2" 150lbs, PTFE >316/316L flange ANSI B16.5
 AQK 1-1/2" 300lbs, PTFE >316/316L flange ANSI B16.5
 AFK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
 ARK 2" 300lbs, PTFE >316/316L flange ANSI B16.5
 AGK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
 AHK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
 KCJ 10K 25A RF, 316L flange JIS B2220
 KEJ 10K 40A RF, 316L flange JIS B2220
 KFJ 10K 50A RF, 316L flange JIS B2220
 KGJ 10K 80A RF, 316L flange JIS B2220
 KHJ 10K 100A RF, 316L flange JIS B2220
 KRJ 20K 50A RF, 316L flange JIS B2220
 KCK 10K 25A RF, PTFE>316L flange JIS B2220
 KEK 10K 40A RF, PTFE>316L flange JIS B2220
 KFK 10K 50A RF, PTFE>316L flange JIS B2220
 KGK 10K 80A RF, PTFE>316L flange JIS B2220
 KHK 10K 100A RF, PTFE>316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEI51; 2-wire 19-253VAC
 - 2 FEI52; 3-wire PNP 10-55VDC
 - 3 FEI53; 3-wire 3-12V signal
 - 4 FEI54; relay DPDT, 19-253VAC, 19-55VDC
 - 5 FEI55; 8/16mA, 11-36VDC
 - 7 FEI57S; 2-wire PFM
 - 8 FEI58; NAMUR+test button (H-L signal)
- W prepared for FEI5x
 Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
- 2 F16 Polyester IP66 NEMA4X
- 3 F17 Alu IP66 NEMA4X
- 4 F13 Alu IP66 NEMA4X + gas-tight probe seal
- 5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
- 6 F27 316L IP68 NEMA6P + gas-tight probe seal
- 9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20 (EEx d > thread M20)
- B Thread G1/2
- C Thread NPT1/2
- D Thread NPT3/4
- E Plug M12
- Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
- 2 2000mm L4 cable > separate housing
- 3 xxx mm L4 cable > separate housing
- 4 80inch L4 cable > separate housing
- 5 xxx inch L4 cable > separate housing
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B PWIS free, PWIS = paint-wetting impairment substances
- C Metal probe rod surface refining
- D EN10204-3.1 material (316L wetted parts/pressurized) inspection certificate
- E EN10204-3.1 material, NACE MR0175 (316L wetted parts/pressurized) inspection certificate
- F SIL declaration of conformity
- S GL marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Solicap M FTI56

Point level switch, capacitance.
Rope probe.
Application: powder, bulk solids.
Total length of probe L = L1+L3.
:: Start up via push button.
:: Robust version.

FTI56-
71025614
SPK: FAB



Solicap M FTI56

Approval:

- A Non-hazardous area
- B ATEX II 1/3D
- C ATEX II 1/2D
- F ATEX II 1D,1/2D,1/3D, EEx ia D
- K CSA General Purpose, CSA C/US
- L CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, CSA/FM: zone 0,1,2,20,21,22
- M CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, CSA/FM: zone 1,2,21,22
- N CSA/FM DIP Cl.II,III Div 1+2 Gr.E-G, FM: zone 21,22
- S TIIS Ex ia IIC T3
- 3 NEPSI DIP A21
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- A not selected
- 1 xxx mm, 316L
- 5 xxx inch, 316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1; Tension Weight:

- A xxx mm, 6mm rope 316; 316L
- B xxx mm, 12mm rope 316; 316L
- C xxx mm, 8mm rope steel zinc coated; steel
- D xxx mm, 14mm rope steel zinc coated; steel
- H xxx inch, 0.2" rope 316; 316L
- K xxx inch, 0.5" rope 316; 316L
- M xxx inch, 0.3" rope steel zinc coated; steel
- N xxx inch, 0.6" rope steel zinc coated; steel
- Y Special version, TSP-no. to be spec.

Insulation Rope:

- 1 fully insulated, PA, max 120oC/250oF
- 2 500mm L2, partial insulated, PTFE, max 180oC/350oF (Ex max 150oC/300oF)

- 9 Special version, TSP-no. to be spec.

Process Connection:

- RV1 Thread EN10226 R1-1/2, steel
RVJ Thread EN10226 R1-1/2, 316L
RG1 Thread ANSI NPT1-1/2, steel
RGJ Thread ANSI NPT1-1/2, 316L
B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
KFJ 10K 50A RF, 316L flange JIS B2220
KGJ 10K 80A RF, 316L flange JIS B2220
KHJ 10K 100A RF, 316L flange JIS B2220
YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEI51; 2-wire 19-253VAC
2 FEI52; 3-wire PNP 10-55VDC
4 FEI54; relay DPDT, 19-253VAC, 19-55VDC
5 FEI55; 8/16mA, 11-36VDC
3 FEI53; 3-wire 3-12V signal
7 FEI57S; 2-wire PFM
8 FEI58; NAMUR+test button (H-L signal)
W prepared for FEI5x
Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
2 F16 Polyester IP66 NEMA4X
3 F17 Alu IP66 NEMA4X
4 F13 Alu IP66 NEMA4X + gas-tight probe seal
5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
6 F27 316L IP68 NEMA6P + gas-tight probe seal
9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20
B Thread G1/2
C Thread NPT1/2
D Thread NPT3/4
G Thread M20
E Plug M12
Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
2 2000mm L4 cable > separate housing
3 xxx mm L4 cable > separate housing
4 80inch L4 cable > separate housing
5 xxx inch L4 cable > separate housing
9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
F SIL declaration of conformity
Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquicap M FTI52

Point level switch, capacitance.
Rope probe, fully insulated.
Application: liquids.
Total length of probe L = L1+L3.
:: Longtime stable tightness.
:: Start up via push button.
:: High temperature / high pressure.

FTI52-
71021926
SPK: FAB



Liquicap M FTI52

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- H ATEX II 1/2G Ex ia IIC T6, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- J ATEX II 1/2G Ex ia IIC T6, WHG, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- K ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- L ATEX II 1/2G Ex d (ia) IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- G ATEX II 1/2G Ex de(ia) IIC T6, WHG, XA, ATEX II 1/2D Ex iaD 20, ATEX Ex tD A21 IP65 T100oC note safety instruction (XA) (electrostatic charging)!
- M ATEX II 3G Ex nA/nL/nC II T6, WHG, ATEX II 3D Ex tD IP65 A22 T100oC
- N *CSA General Purpose, CSA C/US
- P CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- R CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 1,2,21,22/CSA: zone 1,2
- S TIIS Ex ia IIC T3
- T TIIS Ex d IIC T3
- 1 NEPSI Ex ia IIC T6
- 2 NEPSI Ex d(ia) IIC T6
- 4 NEPSI Ex nA/nC IIC T6
- 5 IECEx Ga/Gb Ex ia IIC T6; Ex iaD 20/ Ex tD A21
- 6 IECEx Ga/Gb Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- A not selected
- 1 xxx mm, 316L
- 2 xxx mm, fully insulated PFA>316L
- 5 xxx inch, 316L
- 6 xxx inch, fully insulated PFA>316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1; Insulation:

- A xxx mm 316; FEP
- B xxx mm 316; PFA
- C xxx inch 316; FEP
- D xxx inch 316; PFA
- Y Special version, TSP-no. to be spec.

Insulation:

- 1 fully insulated
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GDJ Thread ISO228 G3/4, 316L, 25bar
- GEJ Thread ISO228 G1, 316L, 25bar
- GGJ Thread ISO228 G1-1/2, 316L, 100bar
- RDJ Thread ANSI NPT3/4, 316L, 25bar
- REJ Thread ANSI NPT1, 316L, 25bar
- RGJ Thread ANSI NPT1-1/2, 316L, 100bar
- GWJ Thread ISO228 G1, 316L, install > accessory weld-in adapter, 25bar, EHEDG
- MRJ DIN11851 DN50 PN40 slotted-nut, 316L
- UPJ Universal adapter 44mm 316L, 16bar,EHEDG
- TCJ Tri-Clamp ISO2852 DN25 (1"), 316L,EHEDG
- TJJ Tri-Clamp ISO2852 DN38 (1-1/2"), 316L, EHEDG

TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
 TJK Tri-Clamp ISO2852 DN38(1-1/2"), PTFE> 316L, EHEDG
 TDK Tri-Clamp ISO2852 DN40-51 (2"), PTFE> 316L, EHEDG
 B0J DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 B1J DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 B2J DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CRJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 DRJ DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
 ERJ DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
 B5J DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CGJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 DGJ DN80 PN16 C, 316L flange EN1092-1 (DIN2512 F)
 EGJ DN80 PN16 D, 316L flange EN1092-1 (DIN2512 N)
 BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CHJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 B0K DN25 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B1K DN32 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B2K DN40 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 B3K DN50 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
 BSK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 BTK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 ACJ 1" 150lbs RF, 316/316L flange ANSI B16.5
 ANJ 1" 300lbs RF, 316/316L flange ANSI B16.5
 AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AQJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
 AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
 ARJ 2" 300lbs RF, 316/316L flange ANSI B16.5
 AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
 ASJ 3" 300lbs RF, 316/316L flange ANSI B16.5
 AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
 ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
 AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
 AUJ 6" 300lbs RF, 316/316L flange ANSI B16.5
 ACK 1" 150lbs, PTFE >316/316L flange ANSI B16.5
 ANK 1" 300lbs, PTFE >316/316L flange ANSI B16.5
 AEK 1-1/2" 150lbs, PTFE >316/316L flange ANSI B16.5
 AQK 1-1/2" 300lbs, PTFE >316/316L flange ANSI B16.5
 AFK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
 ARK 2" 300lbs, PTFE >316/316L flange ANSI B16.5
 AGK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
 AHK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
 KCJ 10K 25A RF, 316L flange JIS B2220
 KEJ 10K 40A RF, 316L flange JIS B2220
 KFJ 10K 50A RF, 316L flange JIS B2220
 KGJ 10K 80A RF, 316L flange JIS B2220
 KHJ 10K 100A RF, 316L flange JIS B2220
 KRJ 20K 50A RF, 316L flange JIS B2220
 KCK 10K 25A RF, PTFE>316L flange JIS B2220
 KEK 10K 40A RF, PTFE>316L flange JIS B2220
 KFK 10K 50A RF, PTFE>316L flange JIS B2220
 KGK 10K 80A RF, PTFE>316L flange JIS B2220
 KHK 10K 100A RF, PTFE>316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEI51; 2-wire 19-253VAC
 - 2 FEI52; 3-wire PNP 10-55VDC
 - 3 FEI53; 3-wire 3-12V signal
 - 4 FEI54; relay DPDT, 19-253VAC, 19-55VDC
 - 5 FEI55; 8/16mA, 11-36VDC
 - 7 FEI57S; 2-wire PFM
 - 8 FEI58; NAMUR+test button (H-L signal)
- W prepared for FEI5x
 Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
- 2 F16 Polyester IP66 NEMA4X
- 3 F17 Alu IP66 NEMA4X
- 4 F13 Alu IP66 NEMA4X + gas-tight probe seal
- 5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
- 6 F27 316L IP68 NEMA6P + gas-tight probe seal
- 9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20 (EEx d > thread M20)
- B Thread G1/2
- C Thread NPT1/2
- D Thread NPT3/4
- E Plug M12
- Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
- 2 2000mm L4 cable > separate housing
- 3 xxx mm L4 cable > separate housing
- 4 80inch L4 cable > separate housing
- 5 xxx inch L4 cable > separate housing
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- D EN10204-3.1 material (316L wetted parts/pressurized) inspection certificate
- E EN10204-3.1 material, NACE MR0175 (316L wetted parts/pressurized) inspection certificate
- F SIL declaration of conformity
- S GL marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquicap M FMI52

Level measurement, capacitive.
Continuous.
Rope probe, fully insulated.
Application: liquids.
Total length of probe L = L1+L3.
:: Precalibrated 0-100% at factory for
conductive liquids.
:: Fast measurement reaction time
:: Longtime stable tightness.

FMI52-
52027319
SPK: FAB



Liquicap M FMI52

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- E ATEX II 1/2G Ex ia IIB T6, ATEX II 1/2D Ex iaD 20 T90oC
- F ATEX II 1/2G Ex ia IIB T6, WHG ATEX II 1/2D Ex iaD 20 T90oC
- H ATEX II 1/2G Ex ia IIC T6, XA ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- J ATEX II 1/2G Ex ia IIC T6, WHG, XA, ATEX II 1/2D Ex iaD 20 T90oC note safety instruction (XA) (electrostatic charging)!
- K ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- L ATEX II 1/2G Ex d (ia) IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- M ATEX II 3G Ex nA II T6, WHG ATEX II 3D Ex tD IP65 A22 T100oC
- N CSA General Purpose, CSA C/US
- P CSA/FM IS Cl.I,II,III Div.1+2 Gr.A-G, CSA: zone 0,1,2
- R CSA/FM XP Cl.I,II,III Div.1+2 Gr.A-G, CSA: zone 1,2
- S TIIS Ex ia IIC T3

- T TIIS Ex d IIC T3
- 1 NEPSI Ex ia IIC T6
- 2 NEPSI Ex d(ia) IIC T6
- 4 NEPSI Ex nA II T6
- 5 IECEx Ga/Gb Ex ia IIC T6; Ex iaD 20/ Ex tD A21
- 6 IECEx Ga/Gb Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Inactive Length L3:

- 1 not selected
- 2 xxx mm, 316L
- 3 xxx mm, fully insulated PFA>316L
- 5 xxx inch, 316L
- 6 xxx inch, fully insulated PFA>316L
- 9 Special version, TSP-no. to be spec.

Active Probe Length L1; Insulation:

- A xxx mm 316; FEP
- B xxx mm 316; PFA
- C xxx inch 316; FEP
- D xxx inch 316; PFA
- Y Special version, TSP-no. to be spec.

Process Connection:

- GDJ Thread ISO228 G3/4, 316L, 25bar
- GEJ Thread ISO228 G1, 316L, 25bar
- GGJ Thread ISO228 G1-1/2, 316L, 100bar
- RDJ Thread ANSI NPT3/4, 316L, 25bar
- REJ Thread ANSI NPT1, 316L, 25bar
- RGJ Thread ANSI NPT1-1/2, 316L, 100bar
- GWJ Thread ISO228 G1, 316L, install > accessory weld-in adapter, 25bar, EHEDG
- MRJ DIN11851 DN50 PN40 slotted-nut, 316L
- UPJ Universal adapter 44mm 316L, 16bar, EHEDG
- TCJ Tri-Clamp ISO2852 DN25 (1"), 316L, EHEDG
- TJJ Tri-Clamp ISO2852 DN38 (1-1/2"), 316L, EHEDG
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TJK Tri-Clamp ISO2852 DN38(1-1/2"), PTFE> 316L, EHEDG
- TDK Tri-Clamp ISO2852 DN40-51 (2"), PTFE> 316L, EHEDG
- B0J DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B1J DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B2J DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- B3J DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CRJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- DRJ DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
- ERJ DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
- BSJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CGJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- DGJ DN80 PN16 C, 316L flange EN1092-1 (DIN2512 F)
- EGJ DN80 PN16 D, 316L flange EN1092-1 (DIN2512 N)
- BTJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CHJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- B0K DN25 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
- B1K DN32 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
- B2K DN40 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
- B3K DN50 PN25/40, PTFE >316L flange EN1092-1 (DIN2527)
- BSK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- BTK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- ACJ 1" 150lbs RF, 316/316L flange ANSI B16.5
- ANJ 1" 300lbs RF, 316/316L flange ANSI B16.5
- AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- AQJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
- AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- ARJ 2" 300lbs RF, 316/316L flange ANSI B16.5
- AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- ASJ 3" 300lbs RF, 316/316L flange ANSI B16.5
- AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5

- AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- AUJ 6" 300lbs RF, 316/316L flange ANSI B16.5
- ACK 1" 150lbs, PTFE >316/316L flange ANSI B16.5
- ANK 1" 300lbs, PTFE >316/316L flange ANSI B16.5
- AEK 1-1/2" 150lbs, PTFE >316/316L flange ANSI B16.5
- AQK 1-1/2" 300lbs, PTFE >316/316L flange ANSI B16.5
- AFK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
- ARK 2" 300lbs, PTFE >316/316L flange ANSI B16.5
- AGK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
- AHK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
- KCJ 10K 25A RF, 316L flange JIS B2220
- KEJ 10K 40A RF, 316L flange JIS B2220
- KFJ 10K 50A RF, 316L flange JIS B2220
- KGJ 10K 80A RF, 316L flange JIS B2220
- KHJ 10K 100A RF, 316L flange JIS B2220
- KRJ 20K 50A RF, 316L flange JIS B2220
- KCK 10K 25A RF, PTFE>316L flange JIS B2220
- KEK 10K 40A RF, PTFE>316L flange JIS B2220
- KFK 10K 50A RF, PTFE>316L flange JIS B2220
- KGK 10K 80A RF, PTFE>316L flange JIS B2220
- KHK 10K 100A RF, PTFE>316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Electronics; Output:

- A FEI50H; 4-20mA HART + display
- B FEI50H; 4-20mA HART
- C FEI57C; 2-wire PFM
- V prepared for FEI5x + display, cover high, transparent
- W prepared for FEI5x, cover flat
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F15 316L Hygiene IP66 NEMA4X
- 2 F16 Polyester IP66 NEMA4X
- 3 F17 Alu IP66 NEMA4X
- 4 F13 Alu IP66 NEMA4X + gas-tight probe seal
- 5 T13 Alu IP66 NEMA4X + gas-tight probe seal + separate conn. compartment
- 6 F27 316L IP68 NEMA6P + gas-tight probe seal
- 9 Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20 (EEx d > thread M20)
- B Thread G1/2
- C Thread NPT1/2
- D Thread NPT3/4
- E Plug M12
- Y Special version, TSP-no. to be spec.

Type of Probe:

- 1 compact
- 2 2000mm L4 cable > separate housing
- 3 xxx mm L4 cable > separate housing
- 4 80inch L4 cable > separate housing
- 5 xxx inch L4 cable > separate housing
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- D EN10204-3.1 material (316L wetted parts/pressurized) inspection certificate
- E EN10204-3.1 material, NACE MR0175 (316L wetted parts/pressurized) inspection certificate
- F SIL declaration of conformity
- S GL marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Nivector FTC968 DC PNP

Point level switch, capacitance.
Application: powder, bulk solids.
Process connection: G1.
Immersion: 20-71mm.
Output: 3-wire PNP, 10-55VDC.
Material isolation/housing: PC, IP65.
:: Independent of solids characteristic.
:: No moving parts.

918098-0140

SPK: FAD

Nivector FTC968 DC PNP



Nivector FTC968Z AC

Point level switch, capacitance.
Application: powder, bulk solids.
Approval: ATEX II 1/3D approval.
Connection: G1, brass nickel plated.
Immersion: 20-71mm.
Output: 2-wire, 21-253VAC.
Material housing: HALAR (ECTFE) IP65.
:: Independent of solids characteristic.
:: No moving parts.

918098-1000

SPK: FAD

Nivector FTC968Z AC



Nivector FTC968Z DC PNP

Point level switch, capacitance.
Application: powder, bulk solids.
Approval: ATEX II 1/3D approval.
Connection: G1, brass nickel plated.
Immersion: 20-71mm.
Output: 3-wire PNP, 10-55VDC.
Material housing: HALAR (ECTFE) IP65.
:: Independent of solids characteristic.
:: No moving parts.

918098-1140

SPK: FAD

Nivector FTC968Z DC PNP



Nivector FTC968 AC

Point level switch, capacitance.
Application: powder, bulk solids.
Process connection: G1.
Immersion: 20-71mm.
Output: 2-wire, 21-253VAC.
Material isolation/housing: PC, IP65.
:: Independent of solids characteristic.
:: No moving parts.

918098-0000

SPK: FAD

Nivector FTC968 AC



Nivotester FTC625

Level instrument, point level.
Input: 1 channel.
2-wire PFM.
:: Permanent self function control.
:: Setting via push button.
:: Adjustable operating delay.
:: RS232, RS485 interface.
:: Remote monitoring via Fieldgate/
Internet.

FTC625-
52013833

SPK: FAN



Nivotester FTC625

Approval:

- C ATEX II (1)GD (EEx ia) IIC, WHG
- D FM IS Cl.I,II,III Div.1 Gr.A-G
- E CSA IS Cl.I,II,III Div.1 Gr.A-G
- S TIIS Ex ia IIC
- Y Special version, TSP-no. to be spec.

Housing:

- 1 2-wire PFM; 45mm, DIN Rail
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- B 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm N.C. (normal closed)
- 2 1x SPDT level + 1x SPST alarm N.O. (normal open)
- 9 Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Nivotester FTC325

Level instrument, point level.
Measuring: capacitive.
Input: 1-channel.
:: Setting via push button.
:: Adjustable operating delay.
:: EMC according to NAMUR.

FTC325-
52013831

SPK: FAN



Nivotester FTC325

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- C ATEX II (1)GD (EEx ia) IIC, WHG
- D FM IS Cl.I,II,III Div.1 Gr.A-G
- E CSA IS Cl.I,II,III Div.1 Gr.A-G
- F CSA General Purpose
- S TIIS Ex ia IIC
- Y Special version, TSP-no. to be spec.

Input; Housing:

- 1 2-wire PFM; 45mm, DIN Rail
- 2 3-wire analogue; 22.5mm, DIN Rail
- 9 Special version, TSP-no. to be spec.

Power Supply:

-
- A 85-253VAC
 - B 20-30VAC/20-60VDC
 - Y Special version, TSP-no. to be spec.

Switch Output:

- 3 1x SPDT level + 1x SPDT alarm
- 1 1x SPDT level + 1x SPST alarm N.C. (normal closed)
- 2 1x SPDT level + 1x SPST alarm N.O. (normal open)
- 9 Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
-

Shorting kit FMI21

Usage: Liquicap T.

52024300

SPK: FAS

Shorting kit FMI21

Protector for Nivector FTC968/FTC968Z

Thread: G1-1/2.

Material: PBT-GF, FDA listed.

Temp.: -20...+80oC, immersion: 81mm.

:: Protection against abrasion.

:: No solids flow at Nivector-exchange.

917255-1000

SPK: FAS

Protector for Nivector FTC968/FTC968Z

Rope shortening kit FMI52/FTI52

PTFE version.

942901-0001

SPK: FAS

Rope shortening kit FMI52/FTI52

Rope shortening kit FTC262

Usage: FTC262.

52005918

SPK: FAS

Rope shortening kit FTC262

Minicap FTC260

Point level switch, capacitance.

Rod probe.

Application: powder, bulk solids.

Sensor length 140mm, Material PPS.

:: Active build-up compensation.

:: Independent of solids characteristic.

:: No moving parts.

FTC260-

943220-9000

SPK: FAU



Minicap FTC260

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX II 1/3D
- U CSA General Purpose
- S CSA DIP Cl.II Gr.E-G Cl.III
- J FM DIP Cl.II,III Gr.E-G, T5, zone 21,22
- 2 NEPSI DIP
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1, PPS
- B Thread ANSI NPT1, PPS
- Y Special version, TSP-no. to be spec.

Switch Output:

- 2 3-wire PNP 10.8-45VDC
- 4 Relay 20-253VAC/20-55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- D F14 Polyester IP66; gland M20
- B F14 Polyester IP66; thread NPT1/2
- C F14 Polyester IP66; thread G1/2
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 2 Transparent cover
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
-

Adapter NPT1-1/4 > NPT1, ST

Thread type: EN10226/ISO7.
Material: Steel zinc coated.
Usage: FTC260.

943215-0042

SPK: FAU

Adapter NPT1-1/4 > NPT1, ST

Adapter NPT1-1/4 > NPT1, 316Ti

Usage: FTC260.
Thread type: EN10226/ISO7.
Material: 316Ti.

943215-0043

SPK: FAU

Adapter NPT1-1/4 > NPT1, 316Ti

Adapter R1-1/2 > R1, PPS

Usage: FTC260.
Thread type: EN10226/ISO7.
Material: PPS.

943215-1001

SPK: FAU

Adapter R1-1/2 > R1, PPS

Adapter G1-1/2 > R1, PPS

Usage: FTC260.
Thread type: EN10226/ISO7.
Material: PPS.

943215-1021

SPK: FAU

Adapter G1-1/2 > R1, PPS

Liquicap T FMI21

Level measurement, capacitive.
Double rod probe.
Application: conductive liquids.
Plastic storage/float container.
:: Initial setting 0-100%.
:: Resistance material.

FMI21-**52023651**

SPK: FAU

Liquicap T FMI21



Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- C ATEX II 3G EEx nA IIC T6, WHG
- D CSA General Purpose, CSA C/US
- Y Special version, TSP-no. to be spec.

Process Connection:

- 1 Thread ISO228 G1-1/2, PPS
- 2 Thread ANSI NPT1-1/2, PPS
- 9 Special version, TSP-no. to be spec.

Probe Length; Material:

- A xxx mm L; PP >316L
- B xxx mm L; PP >carbon fiber (<1000mm)
- C xxx mm L; PP >carbon fiber (>1000mm)
- D xxx inch L; PP >316L
- E xxx inch L; PP >carbon fiber (<40inch)
- F xxx inch L; PP >carbon fiber (>40inch)
- Y Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 1 F16 Polyester IP66 NEMA4X; gland M20
- 2 F16 Polyester IP66 NEMA4X;thread NPT1/2
- 3 F16 Polyester IP66 NEMA4X; thread G1/2
- 9 Special version, TSP-no. to be spec.

Electronics; Output:

- A w/o
- B FEI20; 4-20mA
- C FEI20; 4-20mA + display
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 2 Shortening kit PP
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Minicap FTC262

Point level switch, capacitance.
Rope probe.
Application: powder, bulk solids.
Material sensor: PPS, rope: HD-PE.
:: Active build-up compensation.
:: Independent of solids characteristic.
:: No moving parts.
:: Simple rope shortening.

Minicap FTC262

Approval:

- A Non-hazardous area
- B ATEX II 1/3D
- U CSA General Purpose
- S CSA DIP Cl.II,III Gr.G + Coal dust Cl.III
- J FM DIP Cl.II,III Gr.E-G, T5, zone 21,22
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1-1/2, PPS
- B Thread ANSI NPT1-1/2, PPS
- Y Special version, TSP-no. to be spec.

Probe Length:

- 3 1500mm/59in L, steel HD-PE insulated
- 4 2500mm/98in L, steel HD-PE insulated

FTC262-
52005489
SPK: FAU



- 5 4000mm/157in L, steel HD-PE insulated
- 6 6000mm/236in L, steel HD-PE insulated
- 1 xxx mm L, steel HD-PE insulated
- 2 xxx inch L, steel HD-PE insulated
- 9 Special version, TSP-no. to be spec.

Switch Output:

- 2 3-wire PNP 10.8-45VDC
- 4 Relay 20-253VAC/20-55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- D F14 Polyester IP66; gland M20
- B F14 Polyester IP66; thread NPT1/2
- C F14 Polyester IP66; thread G1/2
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 2 Transparent cover
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Flat seal 50x65x1 PTFE, FDA, 5 pieces

Fit to weld-in adapter DRD-DN50.
Flush mount FTL50H/FTL51H,
pressure device.

52024228

SPK: FAW

Flat seal 50x65x1 PTFE, FDA, 5 pieces

Cover F14 PE, transparent PA

Sight glass Polycarbonat PA.

943201-1001

SPK: FAW

Cover F14 PE, transparent PA

Cover F15 316L, sight glass, gasket

Sight glass Glass.
Gasket 67,5x2,9x1,5, VMQ/PTFE.
Usage: Housing F15 Stainless Steel.

52027002

SPK: FAW

Cover F15 316L, sight glass, gasket

One rod probe 11375Z

Point level switch, conductive.
Application: conductive liquids.
:: Millimeter precision switch point.
:: Simple rod shortening.
:: Suitable on narrow mount. condition.

11375Z-
918642-9000
SPK: FCA



One rod probe 11375Z

Approval:

- R Non-hazardous area
- S Non-hazardous area, WHG
- P ATEX II 1/2G EEx ia IIC T6
- Q ATEX II 1/2G EEx ia IIC T6, WHG
- Y Special version, TSP-no. to be spec.

Application:

- X Unspecified instrument
- Y Special version, TSP-no. to be spec.

Process Connection:

- G1 Thread ISO228 G1/2, 316Ti
- K1 Thread ISO228 G1/2, 316Ti + heat sink
- Y9 Special version, TSP-no. to be spec.

Partial Insulation:

- A PTFE
- Y Special version, TSP-no. to be spec.

Partial Insulation:

- 1 xxx mm L2
- 2 230 mm L2
- 5 xxx inch L2
- 6 10 inch L2
- 9 Special version, TSP-no. to be spec.

Rod Material:

- A 316Ti
- Y Special version, TSP-no. to be spec.

Probe Length:

- 1 xxx mm L
- 2 250 mm L, shortable
- 3 500 mm L, shortable
- 4 1000 mm L, shortable
- 5 xxx inch L
- 6 10 inch L, shortable
- 7 20 inch L, shortable
- 8 40 inch L, shortable
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Triple rod probe 11363Z

Point level switch, conductive.
Application: conductive liquids.
:: Millimeter precision switch point.
:: Easy two point level control.

11363Z-
918613-9000
SPK: FCA



Triple rod probe 11363Z

Approval:

- R Non-hazardous area
- W Non-hazardous area, WHG
- P ATEX II 1/2G EEx ia IIC T6
- A ATEX II 1/2G EEx ia IIC T6, WHG
- K ATEX II 1G EEx ia IIC T6
- Y Special version, TSP-no. to be spec.

Application:

- 1 FTW325
- 8 Unspecified instrument
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 9Y9 Special version, TSP-no. to be spec.
- AA1 Thread ISO228 G1-1/2, 316Ti
- AA4 Thread ISO228 G1-1/2, PP
- AA5 Thread ISO228 G1-1/2, PTFE
- AB1 Thread ANSI NPT1-1/2, 316Ti
- IC1 DN50 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- IC4 DN50 PN16 A, PP max 1.5bar abs flange EN1092-1 (DIN2527 B)
- IC7 DN50 PN10/16, PTFE >316Ti flange EN1092-1 (DIN2527)
- MC1 DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- MC4 DN100 PN16 A, PP max 1.5bar abs flange EN1092-1 (DIN2527 B)
- 3Q1 2" 150lbs RF, 316Ti flange ANSI B16.5
- 3Q7 2" 150lbs, PTFE >316Ti flange ANSI B16.5
- 7Q1 4" 150lbs RF, 316Ti flange ANSI B16.5
- 7Q7 4" 150lbs, PTFE >316Ti flange ANSI B16.5

Rod Material:

- A 316Ti
- B AlloyB
- C AlloyC4
- D Titanium
- E Tantalum
- F Monel
- Y Special version, TSP-no. to be spec.

Maximum Rod Length:

- 1 xxx mm
- 9 Special version, TSP-no. to be spec.

Minimum Rod:

- 1 xxx mm
- 9 Special version, TSP-no. to be spec.

Reference Rod:

- 1 xxx mm
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- E E Alu IP66; gland M20
- C E Alu IP66; thread NPT1/2
- D E Alu IP66; thread G1/2
- F E Alu IP66; gland HNA24
- O E Polyester IP66; gland M20
- L E Polyester IP66; thread NPT1/2
- M E Polyester IP66; thread G1/2
- P E Polyester IP66; gland HNA24
- V E Alu, coated IP66; gland M20
- T E Alu, coated IP66; thread NPT1/2
- U E Alu, coated IP66; thread G1/2
- W E Alu, coated IP66; gland HNA24
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- A Not selected
- B EW11Z; Line monitoring
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Double rod probe 11362Z

Point level switch, conductive.
Application: conductive liquids.
:: Millimeter precision switch point.

11362Z-
918611-9000

SPK: FCA



Double rod probe 11362Z

Approval:

- R Non-hazardous area
- W Non-hazardous area, WHG
- P ATEX II 1/2G EEx ia IIC T6
- A ATEX II 1/2G EEx ia IIC T6, WHG
- K ATEX II 1G EEx ia IIC T6
- Y Special version, TSP-no. to be spec.

Application:

- 1 FTW325
- 8 Unspecified instrument
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 9Y9 Special version, TSP-no. to be spec.
- AA1 Thread ISO228 G1-1/2, 316Ti
- AA4 Thread ISO228 G1-1/2, PP
- AA5 Thread ISO228 G1-1/2, PTFE
- AB1 Thread ANSI NPT1-1/2, 316Ti
- IC1 DN50 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- IC4 DN50 PN16 A, PP max 1.5bar abs flange EN1092-1 (DIN2527 B)
- IC5 DN50 PN16 A, PTFE max 1.5bar abs flange EN1092-1 (DIN2527 B)
- IC7 DN50 PN10/16, PTFE >316Ti flange EN1092-1 (DIN2527)
- LC1 DN80 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- LC4 DN80 PN16 A, PP max 1.5bar abs flange EN1092-1 (DIN2527 B)
- LC7 DN80 PN10/16, PTFE >316Ti flange EN1092-1 (DIN2527)
- MC1 DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- MC4 DN100 PN16 A, PP max 1.5bar abs flange EN1092-1 (DIN2527 B)
- 3Q1 2" 150lbs RF, 316Ti flange ANSI B16.5
- 3Q4 2" 150lbs FF, PP max 22psia flange ANSI B16.5
- 3Q7 2" 150lbs, PTFE >316Ti flange ANSI B16.5
- 5Q1 3" 150lbs RF, 316Ti flange ANSI B16.5
- 5Q5 3" 150lbs FF, PTFE max 22psia flange ANSI B16.5

Rod Material:

- A 316Ti
- B AlloyB
- C AlloyC4
- D Titanium
- E Tantalum
- F Monel
- Y Special version, TSP-no. to be spec.

Partial Insulation:

- 1 Standard
- 9 Special version, TSP-no. to be spec.

Probe Length:

- 1 xxx mm L
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- E E Alu IP66; gland M20
- C E Alu IP66; thread NPT1/2
- D E Alu IP66; thread G1/2
- F E Alu IP66; gland HNA24
- O E Polyester IP66; gland M20
- L E Polyester IP66; thread NPT1/2
- M E Polyester IP66; thread G1/2
- P E Polyester IP66; gland HNA24
- V E Alu, coated IP66; gland M20
- T E Alu, coated IP66; thread NPT1/2
- U E Alu, coated IP66; thread G1/2
- W E Alu, coated IP66; gland HNA24
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- A Not selected
- B EW11Z; Line monitoring
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

One rod probe 11371

Point level switch, conductive.
Application: conductive liquids.
Hygienic version.
:: Suitable for hot steam cleaning.
:: Millimeter precision switch point.
:: Simple rod shortening.
:: SIP/CIP-suitable.

11371-
942820-9000
SPK: FCA



One rod probe 11371

Approval:

- 1 Non-hazardous area

Process Connection:

- 2 Thread ISO228 G1/2, 316Ti
- 1 Weld-in socket 30mm
- 3 w/o process flange connection
- 9 Special version, TSP-no. to be spec.

Probe Length:

- 1 xxx mm L, 316Ti + PFA
- 2 200 mm L, 316Ti + PFA
- 3 500 mm L, 316Ti + PFA
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

One rod probe 11961Z

Point level switch, conductive.
Application: conductive liquids.
Usable at high pressure +
high temperature.
:: Millimeter precision switch point.
:: Gas/vacuum tight.
:: Simple rod shortening.
:: Suitable on narrow mount. condition.

11961Z-
918474-9000
SPK: FCA



One rod probe 11961Z

Approval:

- R Non-hazardous area

- S Non-hazardous area, WHG
- 3 ATEX II 1/2G EEx ia IIB T6
- 2 ATEX II 1/2G EEx ia IIB T6, WHG
- P ATEX II 1/2G EEx ia IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- A ATEX II 1/2G EEx ia IIC T6, WHG, XA Note safety instruction (XA) (electrostatic charging)!

Y Special version, TSP-no. to be spec.

Application:

- C FTC470Z/FTC471Z
- R FTW325
- S FTC325/FTC625
- X Unspecified instrument
- Y Special version, TSP-no. to be spec.

Process Connection:

- G1 Thread ISO228 G1/2, 316Ti
- Y9 Special version, TSP-no. to be spec.

Metal Parts On Ceramic Insulation:

- A NiFe 42
- B Ni 99.6
- Y Special version, TSP-no. to be spec.

Rod:

- B 316Ti
- Y Special version, TSP-no. to be spec.

Probe Length:

- 1 xxx mm L, shortable
- 2 500 mm L, shortable
- 3 1000 mm L, shortable
- 5 xxx inch L, shortable
- 6 20 inch L, shortable
- 7 40 inch L, shortable
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Well probe 21270

Point level switch, conductive.
Probe: Rilsan.
Sensor pin: 316Ti.

911965-0000

SPK: FCC



Well probe 21270

Pump protection sensor FTW360

Point level switch, conductive.
Application: liquid, conductive liquid.
:: Active build-up compensation.
:: Flush mounting.
:: Time delay adjustable.
:: SIP/CIP-suitable.

FTW360-

942922-9000

SPK: FCD



Pump protection sensor FTW360

Process Connection; Insulation:

- G1 Thread ISO228 G3/4, 316Ti, PTFE
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- X w/o adapter
- Y Special version, TSP-no. to be spec.

Housing; Cable Entry:

- H F10 Polyester IP66; gland M20
- J F6 Alu IP66; gland M20
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- A Not selected
- D FEW24; 21-250VAC/20-200VDC
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Electronics FEW54

Usage: Point level switch, conductive,
Liquipoint T.
Output relay 20-253VAC, 20-55VDC.

52017272

SPK: FCR

Electronics FEW54

Electronics FEW52

Usage: Point level switch, conductive,
Liquipoint T.
Output PNP 10.8-45VDC.

52017271

SPK: FCR

Electronics FEW52

Electronics FEW58

Usage: Point level switch, conductive,
Liquipoint T.
Output NAMUR.

52017273

SPK: FCR

Electronics FEW58

Weld-in adapter G3/4, O-ring 316Ti

Material: 316Ti + O-ring, Viton.

210808-1000

SPK: FCS

Weld-in adapter G3/4, O-ring 316Ti

Mounting nut G1-1/2

Hexagon, SW60.

Usage: Liquipoint T, Liquicap T.

52014146

SPK: FCS

Mounting nut G1-1/2

Nivotester FTW325

Level instrument, point level.

Input: 2-channel.

:: Adjustable operating delay.

:: Pump control.

FTW325-**52013830**

SPK: FCU

Nivotester FTW325

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG
- C ATEX II (1)G (EEx ia) IIC, WHG
- D FM IS Cl.I,II,III Div.1 Gr.A-G
- E CSA IS Cl.I,II,III Div.1 Gr.A-G
- Y Special version, TSP-no. to be spec.

Housing:

- 2 Rail mounting, 22.5mm, 2-channel
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- B 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.



Liquipoint T FTW32

Point level switch, conductive.
Application: conductive liquids.
Rope probe.
Rope isolation: FEP.
Weight: 316L, blank.
Protection class IP66 NEMA4X.
:: Multi point detection.
:: Simple probe shortening.
:: Millimeter precision switch point.

FTW32-
52013829
SPK: FCU



Liquipoint T FTW32

Approval:

- A Non-hazardous area
- B Non-hazardous area, WHG, leakage-detection
- D ATEX II 2G EEx ia IIC T6, WHG, XA, leakage-detection, note safety instruction (XA) (electrostatic charging)
- Y Special version, TSP-no. to be spec.

Process Connection:

- 1 Thread ISO228 G1-1/2, PPS
- 2 Thread ANSI NPT1-1/2, PPS
- 9 Special version, TSP-no. to be spec.

Sensing Point:

- D2 2x rope, 316Ti
- D3 3x rope, 316Ti
- D5 5x rope, 316Ti
- Y9 Special version, TSP-no. to be spec.

Probe Length:

- A xxx mm L
- B xxx inch L
- E 180inch L
- Y Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20
- B Thread NPT1/2
- C Thread G1/2
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 0 Separate instrumentation
- 1 FEWxx retrofit
- 2 FEW52; PNP 10,8-45VDC
- 4 FEW54; relay 20-253VAC; 20-55VDC
- 8 FEW58; NAMUR
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquipoint T FTW31

Point level switch, conductive.
Application: conductive liquids.
Rod probe.
Rod isolation: Polypropylen.
Protection class IP66 NEMA4X.
:: Multi point detection.
:: Simple probe shortening.
:: Millimeter precision switch point.

FTW31-
52013828
SPK: FCU



Liquipoint T FTW31

Approval:

- A Non-hazardous area
 - B Non-hazardous area, WHG, leakage-detection
 - D ATEX II 2G EEx ia IIC T6, WHG, XA, leakage-detection, note safety instruction (XA) (electrostatic charging)
- Y Special version, TSP-no. to be spec.

Process Connection:

- 1 Thread ISO228 G1-1/2, PPS
- 2 Thread ANSI NPT1-1/2, PPS
- 9 Special version, TSP-no. to be spec.

Sensing Point:

- A2 2x rod, 316L
- A3 3x rod, 316L
- A5 5x rod, 316L
- C2 2x rod, carbon fiber
- C3 3x rod, carbon fiber
- Y9 Special version, TSP-no. to be spec.

Probe Length:

- A xxx mm L, 316L
- B xxx inch L, 316L
- H 500mm L, 316L
- C 1000mm L, 316L
- I 1500mm L, 316L
- D 2000mm L, 316L
- E 72inch L, 316L
- F xxx mm L, carbon fiber
- G xxx inch L, carbon fiber
- Y Special version, TSP-no. to be spec.

Cable Entry:

- A Gland M20
- B Thread NPT1/2
- C Thread G1/2
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 0 Separate instrumentation
- 1 FEWxx retrofit
- 2 FEW52; PNP 10,8-45VDC
- 4 FEW54; relay 20-253VAC; 20-55VDC
- 8 FEW58; NAMUR
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Weld-in socket 11371 D30 G1/2 SS, gasket

D=30mm, 316Ti.
O-ring 17.0x2.5 EPDM.

517211-1000

SPK: FCW

Weld-in socket 11371 D30 G1/2 SS, gasket

Threaded boss 11371 G1/2 316Ti, gasketGasket 22x32x3 FA.
O-ring 17x2.5 EPDM.**517212-1000**

SPK: FCW

Threaded boss 11371 G1/2 316Ti, gasket

Waterpilot FMX167Level measurement, Hydrostatic.
Level probe.
Process membrane: CERAPHIRE, dry, rugged.
Output 4-20mA analog
Typ. ref. accuracy +/-0.2%
:: Integrated overvoltage protection.**FMX167-****52006116**

SPK: FEC



Waterpilot FMX167

Approval:

- A Non-hazardous area
- B ATEX II 2G EEx ia IIC T6
- C ATEX II 3G EEx nA II T6
- D FM Cl.I Div.1 Gr.A-D IS, zone 1
- E CSA Cl.I Div.1 Gr.A-D IS, zone 1
- F CSA General Purpose

Connection:

- 1 Probe cable
- 2 Suspension clamp, 316L
- 3 G1-1/2, 304, cable-mounting-screw
- 4 NPT1-1/2, 304, cable-mounting-screw
- 9 Special version, TSP-no. to be spec.

Probe Tube:

- A 316L, d = 22mm/0,87in
- D 316L, d = 22mm/0,87in + potable water approval KTW/NSF/ACS
- B 316L, d = 42mm/1,66in, flush mount
- C PPS/Polyolefin>316L, d = 29mm/1,15in, application salt-water
- Y Special version, TSP-no. to be spec.

Measuring Range:

- BA 0...0.1bar
- BB 0...0.2bar
- BC 0...0.4bar
- BD 0...0.6bar
- BE 0...1bar
- BF 0...2bar
- BG 0...4bar
- BH 0...10bar
- BK 0...20bar
- FA 0...3ftH2O
- FB 0...6ftH2O
- FC 0...15ftH2O
- FD 0...20ftH2O
- FE 0...30ftH2O
- FF 0...60ftH2O
- FG 0...150ftH2O
- FH 0...300ftH2O
- FK 0...600ftH2O
- MA 0...1mH2O

MB	0...2mH2O
MC	0...4mH2O
MD	0...6mH2O
ME	0...10mH2O
MF	0...20mH2O
MG	0...40mH2O
MH	0...100mH2O
MK	0...200mH2O
PA	0...1.5psi
PB	0...3psi
PC	0...6psi
PD	0...10psi
PE	0...15psi
PF	0...30psi
PG	0...60psi
PH	0...150psi
PK	0...300psi
VV	Adjusted, 0...x, see additional spec.
YY	Special version, TSP-no. to be spec.

Sensor Seal:

- 1 FKM Viton
- 2 EPDM

Probe Cable:

- B 10m, shortable, PE
- C 20m, shortable, PE
- A xxx m, shortable, PE
- E 30ft, shortable, PE
- F 60ft, shortable, PE
- G xxx ft, shortable, PE
- K 10m, shortable, FEP
- L 20m, shortable, FEP
- I xxx m, shortable, FEP
- M 30ft, shortable, FEP
- N 60ft, shortable, FEP
- P xxx ft, shortable, FEP
- S 10m, shortable, PUR
- T 20m, shortable, PUR
- R xxx m, shortable, PUR
- V 30ft, shortable, PUR
- W 60ft, shortable, PUR
- U xxx ft, shortable, PUR
- Y Special version, TSP-no. to be spec.

Additional Option:

- 7 Basic version
- 1 Pt100, 4-wire
- 3 Terminal box IP66/67
- 4 Terminal box IP66/67 + Pt100, 4-wire
- 5 Pt100 + temp. transmitter TMT181, 2-wire, 4-20mA = -20...80°C
- S GL/ABS marine certificate
- A xxx m cable marking>installation
- B xxx ft cable marking>installation
- C xxx m cable mark., terminal box, cable marking>installation, terminal box IP66/67
- D xxx ft cable mark., terminal box, cable marking>installation, terminal box IP66/67
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
-

Weld-in adapter Uni D65, 316L

Flush mount process connection.

Universal adapter.

Core hole: 65mm.

214880-0002

Material: 316L.

Usage: FMI5x_050_UPJ,

SPK: FES

FTI5x_050_UPJ, FMP41C_030_UPK/UQK,

FMB70_070_00,

FMB50_110_UPJ/UNJ, PMC51_110_UPJ/UNJ.

Weld-in adapter Uni D65, 316L

Terminal box 120x80x55, PC

Filter + binding posts on hat rail.

52006152

SPK: FES

Terminal box 120x80x55, PC

Additional weight FMX21/FMX167, 316L

Heightening of sensor-weight at 300g.

Several weights per probe are possible.

Usage: FMX21/FMX167,

52006153

diameter 22mm/0,87in + 29mm/1,15in.

SPK: FES

Additional weight FMX21/FMX167, 316L

Cable-mounting-screw G1-1/2, 304

Usage: Mounting FMX21/FMX167.

52008264

SPK: FES

Cable-mounting-screw G1-1/2, 304

Transmitter, 2-wire, TMT181 -20/+80oC

Prepared for -20...+80oC.

Usage: FMX167, temperature output.

52008794

SPK: FES

Transmitter, 2-wire, TMT181 -20/+80oC

Cable-mounting-screw NPT1-1/2, 304

Usage: Mounting FMX21/FMX167.

52009311

SPK: FES

Cable-mounting-screw NPT1-1/2, 304

Weld-in adapter Uni D85, 316L 3.1

Flush mount process connection.

Universal adapter.

Core hole: 85mm.

Material: 316L.

Inspection cert. EN10204-3.1 material.

Usage: FMI5x_050_UPJ,

FTI5x_050_UPJ, FMP41C_030_UPK/UQK,

FMB70_070_00,

FMB50_110_UPJ/UNJ, PMC51_110_UPJ/UNJ.

52010173

SPK: FES

Weld-in adapter Uni D85, 316L 3.1

Weld-in adapter Uni D65, 316L 3.1

Flush mount process connection.

Universal adapter.

Core hole: 65mm.

Material: 316L.

Inspection cert. EN10204-3.1 material.

Usage: FMI5x_050_UPJ,

FTI5x_050_UPJ, FMP41C_030_UPK/UQK,

PMP75_70_00, FMB70_070_00,

FMB50_110_UPJ/UNJ, PMC51_110_UPJ/UNJ.

52010174

SPK: FES

Weld-in adapter Uni D65, 316L 3.1

Test adapter FMX167/FMX21

Pressure admission + function test.

Usage: FMX21; FMX167,

diameter 22mm/0,87in + 29mm/1,15in.

52011868

SPK: FES

Test adapter FMX167/FMX21

Mounting clamp FMX21/FMX167, 316L

Usage:

Cable fixing (7,5-10,5mm).

52006151

SPK: FES

Mounting clamp FMX21/FMX167, 316L

Binding posts terminal box FMX21/FMX167

Block of 4 binding posts, hat rail.

52008938

SPK: FES

Binding posts terminal box FMX21/FMX167

Gammapilot M FMG60

Scintillation compact transmitter.

Measuring: Nucleonic, contactless.

Application: Level/density/point level.

Liquids + solids.

Protection IP65/IP67.

:: Highly sensitive detector.

:: Automatic source decay compensation.

:: Detection of NDT Radiography.

:: Self-checking.

Integrated linearisation.

Setup-/diagnostic software included.

FMG60-**52018524**

SPK: FGA

Gammapilot M FMG60

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG (point level)
- 3 ATEX II (1)2G EEx d (ia) IIC T6
- 4 ATEX II (1)2G EEx d (ia) IIC T6, WHG (point level)
- 1 ATEX II (1)2G EEx de (ia) IIC T6
- 2 ATEX II (1)2G EEx de (ia) IIC T6, WHG (point level)
- 6 ATEX II (1)2GD EEx de (ia) IIC T6
- 7 ATEX II (1)2GD EEx de (ia) IIC T6, WHG (point level)
- 8 ATEX II (1)2GD EEx d (ia) IIC T6
- M ATEX II (1)2GD EEx d (ia) IIC T6, WHG (point level)
- 5 ATEX II (1)2D
- G IECEx zone1 (zone0) Ex de (ia) IIC T6
- H IECEx zone1 (zone0) Ex d (ia) IIC T6
- N CSA General Purpose
- P CSA Cl.I Gr.A-D/Cl.II Gr.E-G/Cl.III, zone 1
- S FM Cl.I Gr.A-D/Cl.II Gr.E-G/Cl.III, zone 1
- K TIIS Ex d (ia) IIC T6
- C NEPSI Ex de (ia) IIC T6
- D NEPSI Ex d (ia) IIC T6
- Y Special version, TSP-no. to be spec.

Power Supply:

- 1 90-253VAC



- 2 18-36VDC
- 9 Special version, TSP-no. to be spec.

Connect. Power Supply; Connect. Output:

- A non Ex; non Ex
- B Ex e; Ex ia
- C Ex e; Ex e
- D Ex d (XP); Ex d (XP)
- E Ex d (XP); Ex ia (IS)
- F dust-Ex; dust-Ex
- G EEx e, dust-Ex; EEx e, dust-Ex
- H EEx d, dust-Ex; EEx d, dust-Ex
- J EEx e, dust-Ex; EEx ia, dust-Ex
- K EEx d, dust-Ex; EEx ia, dust-Ex
- L dust-Ex; Ex ia
- Y Special version, TSP-no. to be spec.

Output:

- 1 4-20mA, HART
- 2 PROFIBUS PA
- 3 FOUNDATION Fieldbus
- 9 Special version, TSP-no. to be spec.

Scintillator; Measuring Range:

- A NaI-Crystal; 50x50mm
- C NaI-Crystal; 50x50mm+collimator radial
- D NaI-Crystal; 50x50mm + cooling tube
- G PVT; 200mm
- H PVT; 200mm + cooling tube
- J PVT; 400mm
- K PVT; 400mm + cooling tube
- L PVT; 800mm
- M PVT; 800mm + cooling tube
- N PVT; 1200mm
- P PVT; 1200mm + cooling tube
- Q PVT; 1600mm
- R PVT; 1600mm + cooling tube
- S PVT; 2000mm
- T PVT; 2000mm + cooling tube
- Y Special version, TSP-no. to be spec.

Housing, Pipe; Operation:

- 1 316L, 316L; prepared for FHX40, Remote display (accessory)
- 3 Alu, 316L; prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Cable Entry Power Supply:

- A Gland M20
- B Thread M20
- C Thread G1/2
- D Thread NPT1/2
- Y Special version, TSP-no. to be spec.

Cable Entry Output:

- 1 equal to supply (gland/thread)
- 2 Plug M12
- 3 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B SIL (max and min point level)
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Detector DG17, Alu

Point level switch.
Measuring: Nucleonic, contactless.
Liquids + solids.
Sensitivity: 7pA/kg
(1,0uSv/h; 0.1mR/h).
3m connection cable.
Housing: Alu, IP55, L=280mm, d=65mm.

915935-0000

SPK: FGB



Detector DG17, Alu

Detector DG27, Alu

Point level switch.
Measuring: Nucleonic, contactless.
Liquids + solids.
Sensitivity: 3.5pA/kg
(0,5uSv/h; 0,05mR/h).
3m connection cable.
Housing: Alu, IP55, L=280mm, d=65mm.

915936-0000

SPK: FGB



Detector DG27, Alu

Gammapilot FTG470Z

Level instrument, point level.
Measuring: Nucleonic.
Input: 1-channel DG17/DG27.
LED row for display of dose rate.

FTG470Z-**917548-9000**

SPK: FGO



Gammapilot FTG470Z

Approval:

- A Non-hazardous area
- Y Special version, TSP-no. to be spec.

Housing:

- 0 Racksyst 4HP
- 9 Special version, TSP-no. to be spec.

Power Supply:

- E 21.5-26.5VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 0 Relay SPDT
- 9 Special version, TSP-no. to be spec.

Source container FQG62

Pivoting insert on/off switch,
source mounting.
Theftproof.
Fire-resistant 538oC/5 minutes.
Hole pattern as DN100 PN16 + 4" 150lbs.
Control area 3uSv/h 1m:
Cs137 > 74GBq (2000mCi),
Co60 > 1.1GBq (30mCi).
Control area 7.5uSv/h 1m:
Cs137 > 185GBq (5000mCi),
Co60 > 3.7GBq (100mCi).

FQG62-
71087045
SPK: FGS



Source container FQG62

License:

- AA Not necessary
- AB AERB Type approval certificate, India
- AC CNSC Radiation Device Cert., Kanada
- AD NRC Device Registration General License USA
- AE NRC Device Registration, USA
- AF GOST, Russia
- AG Device Registration License of (Territory), Australia fire-resistant 821oC/30 minutes
- AH Norwegian Radiation Protect. Authority
 - AI Swedish Radiation Protection Institute
- YY Special version, TSP-no. to be spec.

Version:

- A Cylinder lock fixation ON/OFF + covering cap
- B Rotary bracket + locking bolt ON + padlock fixation OFF
- C Padlock fixation ON/OFF + rotary bracket
- D Padlock fixation ON/OFF+O-ring seal double > higher protection dust/ humidity + rotary bracket

- K Pneumatic cutoff, non Ex + padlock fixation OFF
- M Pneumatic cutoff, non Ex + O-ring seal double > higher protection dust/humidity + padlock fixation OFF

- N Pneumatic cutoff, ATEX + O-ring seal double > higher protection dust/humidity + padlock fixation OFF + ATEX II 2G IIB T4

- L Pneumatic cutoff, ATEX + padlock fixation OFF ATEX II 2G IIB T4
- Y Special version, TSP-no. to be spec.

Prepared for Source Loading:

- 1 Caesium 137, please order separately
- 2 Cobalt 60, please order separately
- V Provided by customer

Prepared for Source Activity:

- AA 3,7MBq/0,1mCi
- AB 7,4MBq/0,2mCi
- AC 18,5MBq/0,5mCi
- AD 37MBq/1mCi
- AE 74MBq/2mCi
- AF 110MBq/3mCi
- AG 185MBq/5mCi
- AH 370MBq/10mCi
- AK 740MBq/20mCi
- AL 1,1GBq/30mCi
- AM 1,85GBq/50mCi
- AN 3,7GBq/100mCi
- AP 7,4GBq/200mCi
- AR 11GBq/300mCi
- AT 18,5GBq/500mCi
- AW 29,6GBq/800mCi
- BB 37GBq/1000mCi
- BC 55,5GBq/1500mCi
- BD 74GBq/2000mCi
- BF 111GBq/3000mCi
- VV Not specified
- YY Special version, TSP-no. to be spec.

Prepared for Source Capsule Type:

- A1 Nipple d=6,4x16mm, capsule VZ79-001
- B1 Thread M4 d=6,4x17,6mm, capsule VZ1508- 001
- C1 Nipple d=8x19mm, capsule VZ357-001
- D1 Thread M4 d=8x19mm, capsule VZ3579-001
- F1 Cylinder d=8,05x12,3, capsule X.9
- J1 Cylinder d=6x10, capsule IGI-Z-3
- L1 Cylinder d=8x12, capsule IGI-Z-4
- A2 Nipple d=6,4x16mm, capsule VZ64-001
- B2 Thread M4 d=6,4x17,6mm, capsule VZ1486- 001
- Y9 Special version, TSP-no. to be spec.

Container:

- A Steel
- B 316L
- C 304
- Y Special version, TSP-no. to be spec.

Surface Protection:

- 2 PUR 2K-texture paint RAL 1003
- 9 Special version, TSP-no. to be spec.

Emission Angle:

- 1 5deg
- 3 20deg
- 5 40deg
- 9 Special version, TSP-no. to be spec.

Labelling:

- A German/English
- B French/English
- C Swedish/English
- D Norwegian/English
- E Russian/English
- Y Special version, TSP-no. to be spec.

>Test, Certificate:

- K9 Special version, TSP-no. to be spec.

>>Additional Function:

- WA Density measurement > fixation ON
- WE Fire-resistant 821oC/30 minutes
- W9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Source container FQG61

Pivoting insert on/off switch,
source mounting.
Theftproof.
Fire-resistant 538oC/5 minutes.
Hole pattern as DN100 PN16 + 4" 150lbs.
Control area 3uSv/h 1m:
Cs137 > 7.4GBq (200mCi),
Co60 > 185MBq (5mCi).
Control area 7.5uSv/h 1m:
Cs137 > 25.9GBq (700mCi),
Co60 > 740MBq (20mCi).

Source container FQG61

License:

- AA Not necessary
- AB AERB Type approval certificate, India
- AC CNSC Radiation Device Cert., Kanada
- AD NRC Device Registration General License USA
- AE NRC Device Registration, USA

**FQG61-
71087043**

SPK: FGS



- AF GOST, Russia
- AG Device Registration License of (Territory), Australia fire-resistant 821oC/30 minutes
- AH Norwegian Radiation Protect. Authority
- AI Swedish Radiation Protection Institute
- YY Special version, TSP-no. to be spec.

Version:

- A Cylinder lock fixation ON/OFF + covering cap
- B Rotary bracket + locking bolt ON + padlock fixation OFF
- C Padlock fixation ON/OFF + rotary bracket
- D Padlock fixation ON/OFF+O-ring seal double > higher protection dust/ humidity + rotary bracket

- K Pneumatic cutoff, non Ex + padlock fixation OFF
- M Pneumatic cutoff, non Ex + O-ring seal double > higher protection dust/humidity + padlock fixation OFF

- N Pneumatic cutoff, ATEX + O-ring seal double > higher protection dust/humidity + padlock fixation OFF + ATEX II 2G IIB T4

- L Pneumatic cutoff, ATEX + padlock fixation OFF ATEX II 2G IIB T4
- Y Special version, TSP-no. to be spec.

Prepared for Source Loading:

- 1 Caesium 137, please order separately
- 2 Cobalt 60, please order separately
- V Provided by customer

Prepared for Source Activity:

- AA 3,7MBq/0,1mCi
- AB 7,4MBq/0,2mCi
- AC 18,5MBq/0,5mCi
- AD 37MBq/1mCi
- AE 74MBq/2mCi
- AF 110MBq/3mCi
- AG 185MBq/5mCi
- AH 370MBq/10mCi
- AK 740MBq/20mCi
- AL 1,1GBq/30mCi
- AM 1,85GBq/50mCi
- AN 3,7GBq/100mCi
- AP 7,4GBq/200mCi
- AR 11GBq/300mCi
- AT 18,5GBq/500mCi
- AW 29,6GBq/800mCi
- BB 37GBq/1000mCi
- VV Not specified
- YY Special version, TSP-no. to be spec.

Prepared for Source Capsule Type:

- A1 Nipple d=6,4x16mm, capsule VZ79-001
- B1 Thread M4 d=6,4x17,6mm, capsule VZ1508- 001
- C1 Nipple d=8x19mm, capsule VZ357-001
- D1 Thread M4 d=8x19mm, capsule VZ3579-001
- F1 Cylinder d=8,05x12,3, capsule X.9
- J1 Cylinder d=6x10, capsule IGI-Z-3
- L1 Cylinder d=8x12, capsule IGI-Z-4
- A2 Nipple d=6,4x16mm, capsule VZ64-001
- B2 Thread M4 d=6,4x17,6mm, capsule VZ1486- 001
- Y9 Special version, TSP-no. to be spec.

Container:

- A Steel
- B 316L
- C 304
- Y Special version, TSP-no. to be spec.

Surface Protection:

- 2 PUR 2K-texture paint RAL 1003
- 9 Special version, TSP-no. to be spec.

Emission Angle:

- 1 5deg

- 3 20deg
- 5 40deg
- 9 Special version, TSP-no. to be spec.

Labelling:

- A German/English
- B French/English
- C Swedish/English
- D Norwegian/English
- E Russian/English
- Y Special version, TSP-no. to be spec.

>Test, Certificate:

- K9 Special version, TSP-no. to be spec.

>>Additional Function:

- WA Density measurement > fixation ON
- WE Fire-resistant 821oC/30 minutes
- W9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Source container FQG63

Pivoting insert on/off switch,
source mounting.
Version: extension rope >
installation source in vessel.
Double walled protective pipe on
customer side.
Theftproof.
Control area 3uSv/h 1m:
Cs137 > 74GBq (2000mCi),
Co60 > 1.1GBq (30mCi).
Control area 7.5uSv/h 1m:
Cs137 > 185GBq (5000mCi),
Co60 > 3.7GBq (100mCi).

Source container FQG63

License:

- AA Not necessary
- AB AERB Type approval certificate, India
- AH Norwegian Radiation Protect. Authority
- AI Swedish Radiation Protection Institute
- YY Special version, TSP-no. to be spec.

Version:

- B Rotary bracket + locking bolt ON + padlock fixation OFF
- C Padlock fixation ON/OFF + rotary bracket
- Y Special version, TSP-no. to be spec.

Prepared for Source Loading:

- 1 Caesium 137, please order separately
- 2 Cobalt 60, please order separately
- V Provided by customer

Extension:

- 2 Rope 316
- 9 Special version, TSP-no. to be spec.

Length;Prepared for Source Activity:

- AA xxx mm; 3,7MBq/0,1mCi
- AB xxx mm; 7,4MBq/0,2mCi
- AC xxx mm; 18,5MBq/0,5mCi
- AD xxx mm; 37MBq/1mCi
- AE xxx mm; 74MBq/2mCi
- AF xxx mm; 110MBq/3mCi
- AG xxx mm; 185MBq/5mCi
- AH xxx mm; 370MBq/10mCi

FQG63-
71116080
SPK: FGS



- AK xxx mm; 740MBq/20mCi
- AL xxx mm; 1,1GBq/30mCi
- AM xxx mm; 1,85GBq/50mCi
- AN xxx mm; 3,7GBq/100mCi
- AP xxx mm; 7,4GBq/200mCi
- AR xxx mm; 11GBq/300mCi
- AT xxx mm; 18,5GBq/500mCi
- AW xxx mm; 29,6GBq/800mCi
- BB xxx mm; 37GBq/1000mCi
- BC xxx mm; 55,5GBq/1500mCi
- BD xxx mm; 74GBq/2000mCi
- BF xxx mm; 111GBq/3000mCi
- VV xxx mm; not specified
- YY Special version, TSP-no. to be spec.

Prepared for Source Capsule Type:

- A1 Nipple d=6,4x16mm, capsule VZ79-001
- B1 Thread M4 d=6,4x17,6mm, capsule VZ1508- 001
- C1 Nipple d=8x19mm, capsule VZ357-001
- D1 Thread M4 d=8x19mm, capsule VZ3579-001
- F1 Cylinder d=8,05x12,3, capsule X.9
- J1 Cylinder d=6x10, capsule IGI-Z-3
- L1 Cylinder d=8x12, capsule IGI-Z-4
- A2 Nipple d=6,4x16mm, capsule VZ64-001
- B2 Thread M4 d=6,4x17,6mm, capsule VZ1486- 001
- Y9 Special version, TSP-no. to be spec.

Container:

- B 316L
- Y Special version, TSP-no. to be spec.

Surface Protection:

- 2 PUR 2K-texture paint RAL 1003
- 9 Special version, TSP-no. to be spec.

Align. Flange:

- 1 DN100 PN16 flange EN1092-1
- 2 4" 150lbs flange ANSI B16.5
- 9 Special version, TSP-no. to be spec.

Emission Angle:

- 0 W/o, sliding source holder
- 9 Special version, TSP-no. to be spec.

Labelling:

- A German/English
- B French/English
- C Swedish/English
- D Norwegian/English
- E Russian/English
- Y Special version, TSP-no. to be spec.

>Test, Certificate:

- K9 Special version, TSP-no. to be spec.

>>Additional Function:

- WE Fire-resistant 821oC/30 minutes
- W9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Cooling tube FMG60, 316L, PVT L=200mm

Mounting parts.
Usage: FMG60.

71003008

SPK: FGS

Cooling tube FMG60, 316L, PVT L=200mm

Gamma Modulator FHG65

modulated radiation,
(NDT) radiography suppression by FMG60.
For source container QG020/100,
FQG61/62.

Mounting between source container
and vessel wall or pipe.

Protection IP65/IP67

:: continuous measuring during NDT
radiography
:: independent of isotope

FHG65-**71060804**

SPK: FGS

Gamma Modulator FHG65

**Approval:**

- A Non-hazardous area
- 1 ATEX II 2G Ex de IIC T5/T6
- 3 ATEX II 2G Ex d IIC T5/T6
- 5 ATEX II 2D Ex t IIIC
- G IECEx Ex de IIC T5/T6
- H IECEx Ex d IIC T5/T6
- N CSA General Purpose
- P CSA Cl.I Gr.A-D/Cl.II Gr.E-G/Cl.III Cl.I Zone 1 Ex d IIC T5/T6
- S FM Cl.I Gr.A-D/Cl.II Gr.E-G/Cl.III Cl. I Zone 1 AEx d IIC T6/T4
- K TIIS Ex d IIC T6
- C NEPSI Ex de IIC T5/T6
- D NEPSI Ex d IIC T5/T6
- Y Special version, TSP-no. to be spec.

Power Supply:

- 1 18-36VDC
- 9 Special version, TSP-no. to be spec.

Housing:

- A 304
- Y Special version, TSP-no. to be spec.

Cable Entry Power Supply:

- A Gland M20
- B Thread M20
- C Thread G1/2
- D Thread NPT1/2
- Y Special version, TSP-no. to be spec.

Mounting device:

- 1 Level, point level, density
- 2 Level, point level, density + cooling tube
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Synchronizer FHG66

Pulse generator for Modulator FHG65
Rail mounting, IP20
Power supply: 18-36VDC
Switch output: 1x relay SPDT

71060806

SPK: FGS



Synchronizer FHG66

Cooling tube FMG60, 316L, Nal crystal

L=50mm.
Mounting parts.
Usage: FMG60.

71003005

SPK: FGS

Cooling tube FMG60, 316L, Nal crystal

Source container FQG60

Shutter for switch on/off the radiation.
Theftproof
Mounting plate for level and density
Control area when loaded 3uSv/h:
Max 1m at Cs137 > 370MBq (10mCi).
Control area when loaded 7,5uSv/h:
Max 1m at Cs137 > 1,1 GBq (30mCi).
Fire-resistant 821oC/30 minutes.

FQG60-**71115243**

SPK: FGS



Source container FQG60

License:

- AA Not necessary
- AH Norwegian Radiation Protect. Authority
- YY Special version, TSP-no. to be spec.

Version:

- B Locking bolt ON + padlock fixation OFF
- C Padlock fixation ON/OFF
- Y Special version, TSP-no. to be spec.

Prepared for Source Loading:

- 1 Caesium 137, please order separately
- V Provided by customer

Prepared for Source Activity:

- AC 18,5MBq/0,5mCi
- AD 37MBq/1mCi
- AE 74MBq/2mCi
- AF 110MBq/3mCi
- AG 185MBq/5mCi
- AH 370MBq/10mCi
- AK 740MBq/20mCi
- AL 1,1GBq/30mCi
- RS 0,74MBq/0,02mCi
- VV Not specified
- YY Special version, TSP-no. to be spec.

Prepared for Source Capsule Type:

- A1 Nipple d=6,4x16mm, capsule VZ79-001

- B1 Thread M4 d=6,4x17,6mm, capsule VZ1508- 001
 J1 Cylinder d=6x10, capsule IGI-Z-3
 L1 Cylinder d=8x12, capsule IGI-Z-4
 Y9 Special version, TSP-no. to be spec.

Container:

- A 304
 Y Special version, TSP-no. to be spec.

Surface Protection:

- 1 w/o varnishing, glass bead blasted
 9 Special version, TSP-no. to be spec.

Emission Angle; Application:

- 3 20deg; limit switch + density
 5 40deg; level
 4 20deg; density 30deg diagonal radiation
 9 Special version, TSP-no. to be spec.

Labelling:

- 1 English
 A German/English
 B French/English
 C Swedish/English
 D Norwegian/English
 E Russian/English
 Y Special version, TSP-no. to be spec.

>Test, Certificate:

- JA Dose rate diagram Cs137
 K9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

- NA Calibration plate

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Meas. path density measurement FHG62

Mounting device.
 Usage: Gammapiot M, Source Container,
 measuring pipe + flange.
 Pipe diameter: DN25-DN80.

FHG62-
71006356
 SPK: FGS

Meas. path density measurement FHG62

Shape Measuring Pipe:

- A S-shaped
 B U-shaped
 Y Special version, TSP-no. to be spec.

Length Measuring Path:

- 1 350mm
 9 Special version, TSP-no. to be spec.

Pipe Diameter; Flange; Material:

- A1 DN25, PN16, 316Ti
 B1 DN32, PN16, 316Ti
 C1 DN40, PN16, 316Ti
 D1 DN50, PN16, 316Ti
 E1 DN65, PN16, 316Ti
 F1 DN80, PN16, 316Ti
 A2 DN25, PN16, PP
 B2 DN32, PN16, PP
 C2 DN40, PN10, PP
 D2 DN50, PN10, PP

- E2 DN65, PN10, PP
- F2 DN80, PN10, PP
- A3 DN25, PN16, PVDF
- B3 DN32, PN16, PVDF
- C3 DN40, PN16, PVDF
- D3 DN50, PN16, PVDF
- E3 DN65, PN16, PVDF
- F3 DN80, PN16, PVDF
- Y9 Special version, TSP-no. to be spec.

Material Clamping Device:

- A 304
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Cooling tube FMG60, 316L, PVT L=400mm

Mounting parts.
Usage: FMG60.

71003009

SPK: FGS

Cooling tube FMG60, 316L, PVT L=400mm

Mounting accessory FHG60, wall/pipe

Usage: Mounting FMG60.

FHG60-**52024116**

SPK: FGS

Mounting accessory FHG60, wall/pipe

Application:

- 1 Level, FMG60 400-1200mm measuring range
- 2 Level, FMG60 1600-2000mm measuring range
- 3 point level switch
- 9 Special version, TSP-no. to be spec.

Mounting Clamp:

- A FMG60
- B FMG60, cooling tube
- Y Special version, TSP-no. to be spec.

Material:

- 1 316L
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Cooling tube FMG60, 316L, PVT L=1600mm

Mounting parts.
Usage: FMG60.

71003001

SPK: FGS

Cooling tube FMG60, 316L, PVT L=1600mm

Source container QG2000

Pivoting insert on/off switch
source mounting.
:: Fixation + theftproof
(padlock).
Control area when loaded 3uSv/h:
Max 1m at Co60 > 29,6GBq (800mCi).
No one at Cs137.
Control area when loaded 7,5uSv/h:
Max 1m at Co60 > 74GBq (2000mCi).
No one at Cs137.

QG2000-**52004752**

SPK: FGS



Source container QG2000

Design:

- Q Pneumatic cutoff, remote indication
- R Manual ON/OFF
- T Manual ON/OFF, remote indication
- V US, manual ON/OFF
- Y Special version, TSP-no. to be spec.

Radiation Shielding:

- 1 Basic version
- 9 Special version, TSP-no. to be spec.

Fitting Position; Emission Angle:

- A Standing; Horizontal
- B Standing; Vertical
- Y Special version, TSP-no. to be spec.

Emission Angle:

- 1 20deg
- 2 40deg
- 3 See additional spec., 5deg steps (alpha + beta)
- 9 Special version, TSP-no. to be spec.

Material Container:

- A 316Ti, glass bead blasted
- B 316Ti, epoxy coated
- C 316Ti, sea water resistant coated
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- S GL marine certificate
- Z see additional spec.
- 9 Special version, TSP-no. to be spec.

Documentation:

- A Not selected
- C PTB Isodose curves > Co60, 37GBq(1Ci)
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Clamping device density meas. FHG61

Radiometric density measurement
on pipe lines.
Usage: FMG60 + FQG60/61/62.

FHG61-
52024119

SPK: FGS

Clamping device density meas. FHG61

Pipe Diameter Source Container:

- A 50-220mm, FQG61/FQG62
- C 50-220mm, FQG61/FQG62, 30deg, diagonal radiation
- B 200-420mm, FQG61/FQG62
- E 48-77mm outside, FQG60
- F 80-273mm outside, FQG60
- Y Special version, TSP-no. to be spec.

Mounting Clamp for Scintillator:

- A NaI, 50mm
- B PVT, 200mm
- C PVT, 400mm
- D NaI, 50mm + cooling tube/collimator / PVT, 200mm/400mm + cooling tube
- Y Special version, TSP-no. to be spec.

Material:

- 1 316L
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Cooling tube FMG60, 316L, PVT L=800mm

Mounting parts.
Usage: FMG60.

71002998

SPK: FGS

Cooling tube FMG60, 316L, PVT L=800mm

Collimator radial, NaI crystal

Mounting parts.
Usage: FMG60.

71002997

SPK: FGS

Collimator radial, NaI crystal

Cooling tube FMG60, 316L, PVT L=2000mm

Mounting parts.
Usage: FMG60.

71003014

SPK: FGS

Cooling tube FMG60, 316L, PVT L=2000mm

Mounting accessory ref. source FMG60

Tension band: 316L.
Usage: FQG60>FMG60 SIL Min.
FQG60 + FSG60 0,74MBq separat order.

71130143

SPK: FGS

Mounting accessory ref. source FMG60

Transport drum, small

Usage: Shipment of radioactive industry product without source container QG.
Consists of: transport drum, insert, max 24 sources, holder, tongs.
Loading large container:
Transport index: 2,0.
Total activity Cobalt60 629MBq (17mCi).
Total activity Caesium137 37GBq (1Ci).
Decisions concerning the use of containers are made exclusively with regard to the German regulations for safety of radiation called.

980016-0000

SPK: FGS

Transport drum, small

Flange DG17/DG27

Installation detector, front.
Mounting: Flange DN100 PN16 + clamps.

915498-0000

SPK: FGS

Flange DG17/DG27

Metal armoured hose DG17/DG27

Connection piece WADI-coupling.
Length: 3m.

915508-0000

SPK: FGS

Metal armoured hose DG17/DG27

Transport drum, large

Usage: Shipment of radioactive industry product without source container QG.
Consists of: transport drum, insert, max 24 sources, holder, tongs.
Loading large container:
Transport index: 2,0.
Total activity Cobalt60 4,8GBq (130mCi).
Total activity Caesium137 592GBq (16Ci).
Decisions concerning the use of containers are made exclusively with regard to the German regulations for safety of radiation called.

980015-0000

SPK: FGS

Transport drum, large

Cooling tube DG17/DG27, Steel

Double walled.
2x water connection G1/4.
Mounting: 2x pipe clamp.

915509-0000

SPK: FGS

Cooling tube DG17/DG27, Steel

Cooling tube DG17/DG27, Steel + flange

Double walled.
2x water connection G1/4.
Mounting: Flange DN100 PN16.

915510-0000

SPK: FGS

Cooling tube DG17/DG27, Steel + flange

Cooling tube FMG60, 316L, PVT L=1200mm

Mounting parts.
Usage: FMG60.

71002999

SPK: FGS

Cooling tube FMG60, 316L, PVT L=1200mm

Gamma source FSG60, Cs137

Isotope: Caesium 137,
Capsule: Stainless Steel, double-
walled-sealed, corrosion- resistant.
Usage: mounting in source container.
Source production will start after
receipt of a valid import licence.

FSG60-**71087046**

SPK: FGV

Gamma source FSG60, Cs137

Activity:

AC 18,5MBq/0,5mCi
AD 37MBq/1mCi
AE 74MBq/2mCi
AF 110MBq/3mCi
AG 185MBq/5mCi
AH 370MBq/10mCi
AK 740MBq/20mCi
AL 1,1GBq/30mCi
AM 1,85GBq/50mCi
AN 3,7GBq/100mCi
AP 7,4GBq/200mCi
AR 11GBq/300mCi
AT 18,5GBq/500mCi
AW 29,6GBq/800mCi
BB 37GBq/1000mCi
BC 55,5GBq/1500mCi
BD 74GBq/2000mCi
BF 111GBq/3000mCi
BG 148GBq/4000mCi
BH 185GBq/5000mCi
BJ 222GBq/6000mCi
BK 259GBq/7000mCi
BL 296GBq/8000mCi
BM 333GBq/9000mCi
BN 370GBq/10000mCi
BP 740GBq/20000mCi
RS 0,74MBq/0,02mCi
YY Special version, TSP-no. to be spec.

Capsule Type:

A1 Nipple d=6,4x16mm, capsule VZ79-001 classification C66646, ISO2919
B1 Thread M4 d=6,4x17,6mm, capsule VZ1508- 001 classification C66646, ISO2919
C1 Nipple d=8x19mm, capsule VZ357-001 classification C65545, ISO2919
D1 Thread M4 d=8x19mm, capsule VZ3579-001 classification C65345, ISO2919
F1 Cylinder d=8,05x12,3, capsule X.9 classification C66646, ISO2919
J1 Cylinder d=6x10, capsule IGI-Z-3 classification C65546, ISO2919
L1 Cylinder d=8x12, capsule IGI-Z-4 classification C65546, ISO2919
G1 Cylinder d=12,9x19,3, capsule X.38/4, classification C66646, ISO2919
H1 Cylinder d=12,5x17,9, capsule R6000, classification C63646, ISO2919
Y9 Special version, TSP-no. to be spec.

>>Marking:

Gamma source FSG61, Co60

Isotope: Cobalt 60, metallic,
Capsule: Stainless Steel, double-
walled-sealed.
Usage: mounting in
source container.
Source production will start after
receipt of a valid import licence.

FSG61-
71087049
SPK: FGV

Gamma source FSG61, Co60

Activity:

AA 3,7MBq/0,1mCi
AB 7,4MBq/0,2mCi
AC 18,5MBq/0,5mCi
AD 37MBq/1mCi
AE 74MBq/2mCi
AF 110MBq/3mCi
AG 185MBq/5mCi
AH 370MBq/10mCi
AK 740MBq/20mCi
AL 1,1GBq/30mCi
AM 1,85GBq/50mCi
AN 3,7GBq/100mCi
AP 7,4GBq/200mCi
AR 11GBq/300mCi
AT 18,5GBq/500mCi
AW 29,6GBq/800mCi
BB 37GBq/1000mCi
BD 74GBq/2000mCi
YY Special version, TSP-no. to be spec.

Capsule Type:

A2 Nipple d=6,4x16mm, capsule VZ64-001 classification C66646, ISO2919
B2 Thread M4 d=6,4x17,6mm, capsule VZ1486- 001 classification C66646, ISO2919
C2 Cylinder d=6,3x12,1, capsule X.2163 classification C63545, ISO2919
Y9 Special version, TSP-no. to be spec.

>>Marking:

Warning sign: "Attention radiation !"

Plastics.

916497-1011
SPK: FGX

Warning sign: "Attention radiation !"

Warning sign: Symbol "Radioactive !"

Corrosion resistant Steel, 304.

916497-0000

SPK: FGX

Warning sign: Symbol "Radioactive !"

Warning sign: "Vorsicht Strahlung !"

Corrosion resistant Steel, 304.

916497-0001

SPK: FGX

Warning sign: "Vorsicht Strahlung !"

Credit note for small transport drum

For the prepaid return in good condition of the transport drums within 4 weeks.

980016-9901

SPK: FGZ

Credit note for small transport drum

Delay cost for large transport drum

Per day, over 4 weeks, deduction amount from the credit note.

980015-9902

SPK: FGZ

Delay cost for large transport drum

Credit note for large transport drum

For the prepaid return in good condition of the transport drums within 4 weeks.

980015-9901

SPK: FGZ

Credit note for large transport drum

Calculation of linearization curve

Customized Gammasilometer value table based on individuell vessel drawing. During commissioning, this table must be entered into the FMG60.

015147-0000

SPK: FGZ

Calculation of linearization curve

Delay cost for small transport drum

Per day, over 4 weeks, deduction amount from the credit note.

980016-9902

SPK: FGZ

Delay cost for small transport drum

Levelflex FMP56

Measurement: Level, radar, guided.
Version: Basic device.
Application: solids.
Pulling forces up to 10kN.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in dusty atmosphere,
in high + narrow silos,
in vessels + obstacles.

FMP56-**71082676**

SPK: FHB



Levelflex FMP56

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BE ATEX II 1D Ex tD IIIC IP6x
- BF ATEX II 1/2D Ex tD IIIC IP6x
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IE IEC Ex zone 20 tD IIIC A20 IP6x Da
- IF IEC Ex zone 20/21 tD IIIC A20/21 IP6x Da/Db
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
- CD CSA C/US DIP Cl.I,II,III Div.1 Gr.E-G

- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- FE FM DIP Cl.II,III Div.1 Gr.E-G
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- B GT18 dual compartment, 316L
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- LA xxx mm, rope 4mm, 316
- LB xxx inch, rope 1/6" 316
- NB xxx mm, rope 6mm PA>Steel
- NE xxx inch, rope 1/4" PA>Steel
- YY Special version, TSP-no. to be spec.

Seal:

- AB Viton, -30...120oC/-22...248oF
- B3 EPDM, -40...120oC/-40...248oF
- Y9 Special version, TSP-no. to be spec.

Process Connection:

- GDE Thread ISO228 G3/4, 304
- RDE Thread ANSI MNPT3/4, 304
- YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

- AA English
- AB German
- AC French
- AD Spanish
- AE Italian
- AF Dutch
- AG Portuguese
- AH Polish
- AI Russian
- AL Japanese
- AM Korean
- AR Czech

>>Application Package:

- E9 Special version, TSP-no. to be spec.

>Calibration:

- F4 5-point linearity protocol
- F9 Special version, TSP-no. to be spec.

>>Service:

- IW W/o Tooling DVD (FieldCare setup)
- IJ Customized parameterization HART
- IK Customized parameterization PA
- IL Customized parameterization FF
- I9 Special version, TSP-no. to be spec.

>>Additional Approval:

- LA SIL
- L9 Special version, TSP-no. to be spec.

>>Probe Design:

- MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
- M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

- O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

- PB Weather protection cover
- PG Mounting kit, insulated, rope
- R9 Special version, TSP-no. to be spec.

>Firmware Version:

- 75 01.01.zz, HART, DevRev02
- 76 01.00.zz, FF, DevRev01
- 77 01.00.zz, PROFIBUS PA, DevRev01
- 78 01.00.zz, HART, DevRev01

>>Marking:

- Z1 Tagging (TAG), see additional spec.
- Z2 Bus address, see additional spec.

Levelflex M FMP43

Measurement: Level, guided radar.
Hygienic.
Application: liquids, corrosive.
Factory precalibrated.
Incl. Setup-/diagnostic software.
:: Reliable measuring:
in case of moved surface + foam,
for changing medias.

FMP43-
71036467
SPK: FHB



Levelflex M FMP43

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G Ex ia IIC T6
- 7 ATEX II 1/2G Ex d (ia) IIC T6
- 5 ATEX II 1/2G Ex ia IIC T6,ATEX II 1/3D
- 3 ATEX II 2G Ex e mb (ia) IIC T6
- 2 ATEX II 1/2D, Alu blind cover
- 4 ATEX II 1/3D
- M FM DIP Cl.II Div.1 Gr.E-G N.I.
- S FM IS Cl.I,II,III Div.1 Gr.A-G N.I., Zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, Zone 1,2
- N CSA General Purpose
- P CSA DIP Cl.II Div.1 Gr.G + coal dust, N.I.
- U CSA IS Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 1,2
- Y Special version, TSP-no. to be spec.

Probe:

- K xxx mm, rod 8mm, 316L, Ra<0.76um/30uin
- M xxx in, rod 8mm 316L, Ra<0.76um/30uin
- S xxx mm, rod 8mm,316L,electro-polished Ra<0.38um/15uin
- T xxx in, rod 8mm 316L,electro-polished Ra<0.38um/15uin
- Y Special version, TSP-no. to be spec.

O-ring Material; Temperature:

- 5 EPDM, FDA, USP Cl. VI; -20oC...130oC
- 6 Kalrez, FDA, USP Cl. VI; -20oC...150oC
- 9 Special version, TSP-no. to be spec.

Process Connection:

- U1J Thread M24, 316L, install > accessory weld-in adapter
- TCJ Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L, 3A, EHEDG
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L, 3A, EHEDG
- TFJ Tri-Clamp ISO2852 DN70-76.1 (3"), 316L, 3A, EHEDG
- T7J SMS 1-1/2" PN25, 316L, EHEDG
- TXJ SMS 2" PN25, 316L, EHEDG
- MQJ DIN11851 DN40 PN40 slotted-nut, 316L, EHEDG
- MRJ DIN11851 DN50 PN40 slotted-nut, 316L, EHEDG
- MAJ DIN11864-1 A DN25 tube DIN11850, 316L, slotted-nut, EHEDG
- S1J NEUMO BioControl DN25 PN16, 316L, EHEDG
- AEJ 1-1/2" 150lbs RF, 316L flange ANSI B16.5
- AFJ 2" 150lbs RF, 316L flange ANSI B16.5
- YY9 Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire; 4-20mA SIL HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA SIL HART
- H 4-wire 10.5-32VDC; 4-20mA SIL HART
- Y Special version, TSP-no. to be spec.

Operation:

- 1 W/o display, via communication
- 2 4-line display VU331
- 3 Prepared for FHX40
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- 1 Compact, basic version
- 5 Compact, detachable
- 6 Remote, cable 3m, detachable
- 7 Remote, cable 6m, detachable
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
- B F23 316L IP68 NEMA6P
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B EN10204-3.1 material (316L wetted parts) inspection certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, 5-point linearity protocol, see additional spec., EN10204-3.1 material, (316L wetted parts) inspection certificate
- P CoC-ASME BPE, EN10204-3.1 material (316L wetted parts) inspection certificate
- R 5-point, CoC-ASME BPE, 3.1, 5-point linearity protocol, see additional spec., EN10204-3.1 material, (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Levelflex M FMP40

Measurement: Level, guided radar.
 Application: solids, liquids.
 Factory precalibrated.
 Incl. Setup-/diagnostic software.
 :: Reliable measuring:
 in dusty atmosphere,
 in high + narrow silos,
 in vessels + obstacles,
 for changing medias.

FMP40-
52010437

SPK: FHB



Levelflex M FMP40

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 1 ATEX II 1/2G Ex ia IIC T6/IECEx Zone0/1
- 2 ATEX II 1/2D/IEC Ex tD A20/21, Alu blind cover
- 3 ATEX II 2G Ex emb(ia) IIC T6/IECEx Zone1
- 4 ATEX II 1/3D/IEC Ex tD A20/22
- 5 ATEX II 1/2G Ex ia IIC T6, ATEX II 1/3D
- 6 ATEX II 1/2G Ex ia IIC T6, WHG
- 7 ATEX II 1/2G Ex d (ia) IIC T6/IEC Ex d(ia) IIC T6
- 8 ATEX II 1/2G Ex ia IIC T6, ATEX II 1/3D, WHG
- G ATEX II 3G Ex nA II T6
- M FM DIP Cl.II Div.1 Gr.E-G N.I.
- S FM IS Cl.I,II,III Div.1 Gr.A-G N.I., zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- N CSA General Purpose
- P CSA DIP Cl.II Div.1 Gr.G + coal dust, N.I.
- U CSA IS Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 1,2
- L TIIS Ex d (ia) IIC T4
- W IEC Ex tD A20/21, Alu blind cover
- X IEC Ex tD A20/22
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- C NEPSI Ex emb (ia) IIC T6
- R NEPSI Ex nA II T6
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Probe:

- A Rope 4mm / 1/6", mainly liquid
- B Rope 6mm / 1/4", solid
- H Rope 6mm / 1/4", PA > steel, Tmax = 100oC/212oF
- P Rod 6mm, liquid
- 1 Rod 12mm, liquid
- K Rod 16mm, mainly liquid
- L Coax, liquid
- Y Special version, TSP-no. to be spec.

Probe Length:

- A xxx mm, rope 4mm, 316
- B xxx mm, rope 6mm, 316
- E xxx mm, rope 6mm, PA > steel
- C xxx inch, rope 1/6", 316
- D xxx inch, rope 1/4", 316
- F xxx inch, rope 1/4", PA > steel
- K xxx mm, rod 16mm, 316L
- S xxx mm,rod 16mm,316L,500mm divisible
- T xxx mm,rod 16mm,316L,1000mm divisible
- L xxx mm, coax, 316L
- P xxx mm, rod 6mm, 316L
- 1 xxx mm, rod 12mm, AlloyC22

- 2 xxx mm, coax, AlloyC22
- M xxx inch, rod 16mm, 316L
- U xxx inch, rod 16mm, 316L, 20in divisible
- V xxx inch, rod 16mm, 316L, 40in divisible
- N xxx inch, coax, 316L
- R xxx inch, rod 6mm, 316L
- 3 xxx inch, rod 12mm, AlloyC22
- 4 xxx inch, coax, AlloyC22
- Y Special version, TSP-no. to be spec.

O-Ring Material; Temperature:

- 2 Viton; -30...150oC/-22...302oF
- 3 EPDM; -40...120oC/-40...248oF
- 4 Kalrez; -5...150oC/23...302oF
- 9 Special version, TSP-no. to be spec.

Process Connection:

- CRJ Thread ISO228 G3/4, 316L
- GRJ Thread ISO228 G1-1/2, 316L
- GRM Thread ISO228 G1-1/2, AlloyC22
- CNJ Thread ANSI NPT3/4, 316L
- GNJ Thread ANSI NPT1-1/2, 316L
- GNM Thread ANSI NPT1-1/2, AlloyC22
- CFJ DN40 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CFM DN40 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CGJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CGM DN50 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CMJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CMM DN80 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CSJ DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CSM DN80 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CQJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CQM DN100 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CTJ DN100 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CTM DN100 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CWM DN150 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CXJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- ACJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- ACM 1-1/2" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- ADJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
- ADM 1-1/2" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- AEJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- AEM 2" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AFJ 2" 300lbs RF, 316/316L flange ANSI B16.5
- AFM 2" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- ALJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- ALM 3" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AMJ 3" 300lbs RF, 316/316L flange ANSI B16.5
- AMM 3" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- APM 4" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AQJ 4" 300lbs RF, 316/316L flange ANSI B16.5
- AQM 4" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- AWJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- AWM 6" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- A3J 8" 150lbs RF, 316/316L flange ANSI B16.5
- KDJ 10K 40A RF, 316L flange JIS B2220
- KDM 10K 40A, AlloyC22 >316L flange JIS B2220
- KEJ 10K 50A RF, 316L flange JIS B2220
- KEM 10K 50A, AlloyC22 >316L flange JIS B2220
- KLJ 10K 80A RF, 316L flange JIS B2220
- KLM 10K 80A, AlloyC22 >316L flange JIS B2220
- KPJ 10K 100A RF, 316L flange JIS B2220
- KPM 10K 100A, AlloyC22 >316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire; 4-20mA SIL HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA SIL HART
- H 4-wire 10.5-32VDC; 4-20mA SIL HART
- K 2-wire; 4-20mA HART, Interface measurement
- Y Special version, TSP-no. to be spec.

Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- 1 Compact, basic version
- B Compact, centering disc d=45mm, 316L pipe diameter DN50/2"
- C Compact, centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
- 2 Spacer, 400mm
- D Spacer, center rod d=45mm, 316L pipe diameter DN50/2", Spacer, 400mm
- E Spacer, center rod d=75mm, 316L pipe diameter DN80/3" + DN100/4", Spacer, 400mm
- 3 Remote, cable 3m, top entry
- F Remote, cable 3m, top, center d=45mm centering disc d=45mm, 316L pipe diameter DN50/2"
- G Remote, cable 3m, top, center d=75mm centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
- 4 Remote, cable 3m, side entry
- H Remote, cable 3m, side, center d=45mm centering disc d=45mm, 316L pipe diameter DN50/2"
- I Remote, cable 3m, side, center d=75mm centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 1 F23 316L IP68; gland M20
- 2 F23 316L IP68; thread G1/2
- 3 F23 316L IP68; thread NPT1/2
- 4 F23 316L IP68; plug M12
- 5 F23 316L IP68; plug 7/8"
- A F12 Alu, coated IP68; gland M20
- B F12 Alu, coated IP68; thread G1/2
- C F12 Alu, coated IP68; thread NPT1/2
- D F12 Alu, coated IP68; plug M12
- E F12 Alu, coated IP68; plug 7/8"
- G T12 Alu, coated IP68; gland M20 (EEx d > thread M20)
- H T12 Alu, coated IP68; thread G1/2
- J T12 Alu, coated IP68; thread NPT1/2
- K T12 Alu, coated IP68; plug M12
- L T12 Alu, coated IP68; plug 7/8"
- M T12 Alu, coated IP68; gland M20 + OVP OVP = overvoltage protection
- N T12 Alu, coated IP68; thread G1/2 + OVP OVP = overvoltage protection
- P T12 Alu, coated IP68; thread NPT1/2+OVP OVP = overvoltage protection
- Q T12 Alu, coated IP68; plug M12 + OVP OVP = overvoltage protection
- R T12 Alu, coated IP68; plug 7/8" + OVP OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B EN10204-3.1 material, wetted parts, (316L wetted parts for rod/coax) inspection certificate
- C EN10204-3.1 material, pressurized, (316L pressurized for rope version) inspection certificate
- N EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- S GL/ABS marine certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, NACE, 5-point linearity protocol, see additional spec., EN10204-3.1 material, NACE MR0175, (316L wetted parts) inspection certificate

Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Levelflex FMP50

Measurement: Level, radar, guided.
Version: Basic device.
Application: liquids.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
for changing medias.

**FMP50-
71082670**

SPK: FHB



Levelflex FMP50

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- BC ATEX II 1/2G Ex d(ia) IIC T6
- BD ATEX II 1/3G Ex ic(ia) IIC T6
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
- ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- CB CSA C/US IS Cl.I Div.1 Gr.A-D
- CC CSA C/US XP Cl.I Div.1 Gr.A-D
- FA FM IS Cl.I Div.1 Gr.A-D
- FC FM XP Cl.I Div.1 Gr.A-D
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- AA xxx mm, rod 8mm 316L

- AB xxx inch, rod 1/3" 316L
- LA xxx mm, rope 4mm, 316
- LB xxx inch, rope 1/6" 316

Seal:

- A1 Viton, -20...80oC/-4...176oF

Process Connection:

- GDJ Thread ISO228 G3/4, 316L
- RDJ Thread ANSI MNPT3/4, 316L

>Additional Operation Language:

- AA English
- AB German
- AC French
- AD Spanish
- AE Italian
- AF Dutch
- AG Portuguese
- AH Polish
- AI Russian
- AL Japanese
- AM Korean
- AR Czech

>>Application Package:

- E9 Special version, TSP-no. to be spec.

>Calibration:

- F4 5-point linearity protocol
- F9 Special version, TSP-no. to be spec.

>>Service:

- IW W/o Tooling DVD (FieldCare setup)
- IJ Customized parameterization HART
- IK Customized parameterization PA
- IL Customized parameterization FF
- I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

- JA 3.1 Material certificate, wetted metallic parts, EN10204-3.1 inspection certificate
- K9 Special version, TSP-no. to be spec.

>>Additional Approval:

- LA SIL
- L9 Special version, TSP-no. to be spec.

>>Probe Design:

- MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
- M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

- O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

- PB Weather protection cover
- PG Mounting kit, insulated, rope
- RC UNI flange 2"/DN50/50, 316L max 3bar abs/44psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- RF UNI flange 3"/DN80/80, 316L max 3bar abs/44psia, suitable for 3" 150lbs/DN80 PN16/10K 80
- RI UNI flange 4"/DN100/100, 316L max 3bar abs/44psia, suitable for 4" 150lbs/DN100 PN16/10K 100
- R9 Special version, TSP-no. to be spec.

>Firmware Version:

- 75 01.01.zz, HART, DevRev02
- 76 01.00.zz, FF, DevRev01
- 77 01.00.zz, PROFIBUS PA, DevRev01
- 78 01.00.zz, HART, DevRev01

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Z2 Bus address, see additional spec.

Levelflex FMP51

Measurement: Level, radar, guided.
Version: Premium device.
Application: liquids.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in case of moved surface + foam,
for changing medias.

FMP51-
71082671

SPK: FHB



Levelflex FMP51

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- BC ATEX II 1/2G Ex d(ia) IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BD ATEX II 1/3G Ex ic(ia) IIC T6
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- B GT18 dual compartment, 316L
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P

Y Special version, TSP-no. to be spec.

Probe:

AA xxx mm, rod 8mm 316L
 AB xxx inch, rod 1/3" 316L
 AC xxx mm, rod 12mm 316L
 AD xxx inch, rod 1/2" 316L
 AL xxx mm, rod 12mm AlloyC
 AM xxx inch, rod 1/2" AlloyC
 BA xxx mm, rod 16mm 316L, 500mm divisible
 BB xxx inch, rod 0.63in 316L, 20inch divisible
 BC xxx mm, rod 16mm 316L, 1000mm divisible
 BD xxx inch, rod 0.63in 316L, 40inch divisible
 LA xxx mm, rope 4mm, 316, max 150mm nozzle height, center rod
 MB xxx mm, rope 4mm 316, max 300mm nozzle height, center rod
 LB xxx inch, rope 1/6" 316, max 6in nozzle height, center rod
 MD xxx inch, rope 1/6" 316, max 12in nozzle height, center rod
 UA xxx mm, coax 316L
 UB xxx inch, coax 316L
 UC xxx mm, coax AlloyC
 UD xxx inch, coax AlloyC
 YY Special version, TSP-no. to be spec.

Seal:

A4 Viton, -30...150oC/-22...302oF
 B3 EPDM, -40...120oC/-40...248oF
 C3 Kalrez, -20...200oC/-4...392oF
 Y9 Special version, TSP-no. to be spec.

Process Connection:

GDJ Thread ISO228 G3/4, 316L
 GGJ Thread ISO228 G1-1/2, 316L
 RDJ Thread ANSI MNPT3/4, 316L
 RGJ Thread ANSI MNPT1-1/2, 316L
 CQJ DN40 PN10-40 B1, 316L flange EN1092-1
 CQM DN40 PN10-40, AlloyC>316L flange EN1092-1
 CFJ DN50 PN10/16 B1, 316L flange EN1092-1
 CRJ DN50 PN25/40 B1, 316L flange EN1092-1
 CFM DN50 PN10/16, AlloyC>316L flange EN1092-1
 CRM DN50 PN25/40, AlloyC>316L flange EN1092-1
 CGJ DN80 PN10/16 B1, 316L flange EN1092-1
 CGM DN80 PN10/16, AlloyC>316L flange EN1092-1
 CSJ DN80 PN25/40 B1, 316L flange EN1092-1
 CSM DN80 PN25/40, AlloyC>316L flange EN1092-1
 CHJ DN100 PN10/16 B1, 316L flange EN1092-1
 CHM DN100 PN10/16, AlloyC>316L flange EN1092-1
 CTJ DN100 PN25/40 B1, 316L flange EN1092-1
 CTM DN100 PN25/40, AlloyC>316L flange EN1092-1
 CJJ DN150 PN10/16 B1, 316L flange EN1092-1
 CKJ DN200 PN16 B1, 316L flange EN1092-1
 AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AEM 1-1/2" 150lbs, AlloyC>316/316L flange ANSI B16.5
 AQJ 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
 AQM 1-1/2" 300lbs, AlloyC>316/316L flange ANSI B16.5
 AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
 AFM 2" 150lbs, AlloyC>316/316L flange ANSI B16.5
 ARJ 2" 300lbs RF, 316/316L flange ANSI B16.5
 ARM 2" 300lbs, AlloyC>316/316L flange ANSI B16.5
 AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
 AGM 3" 150lbs, AlloyC>316/316L flange ANSI B16.5
 ASJ 3" 300lbs RF, 316/316L flange ANSI B16.5
 ASM 3" 300lbs, AlloyC>316/316L flange ANSI B16.5
 AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
 ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
 AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
 AKJ 8" 150lbs RF, 316/316L flange ANSI B16.5
 KEJ 10K 40A RF, 316L flange JIS B2220

KFJ 10K 50A RF, 316L flange JIS B2220
 KGJ 10K 80A RF, 316L flange JIS B2220
 KHJ 10K 100A RF, 316L flange JIS B2220
 YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

AA English
 AB German
 AC French
 AD Spanish
 AE Italian
 AF Dutch
 AG Portuguese
 AH Polish
 AI Russian
 AL Japanese
 AM Korean
 AR Czech

>>Application Package:

EB Interface measurement
 E9 Special version, TSP-no. to be spec.

>Calibration:

F4 5-point linearity protocol
 F9 Special version, TSP-no. to be spec.

>>Service:

HC PWIS free, PWIS = paint-wetting impairment substances
 IW W/o Tooling DVD (FieldCare setup)
 IJ Customized parameterization HART
 IK Customized parameterization PA
 IL Customized parameterization FF
 I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

JA 3.1 Material certificate, wetted metallic parts, EN10204-3.1 inspection certificate
 JE Conformity to NACE MR0103, wetted metallic parts
 KD Helium leak test, internal procedure, inspection certificate
 KE Pressure test, internal procedure, inspection certificate
 KP Liquid penetrant test AD2000-HP5-3(PT), wetted/pressure retaining metallic parts, inspection certificate
 KS WPQR, WPS to ISO15614/ASME IX/Norsok, wetted/pressure retaining metallic parts
 K9 Special version, TSP-no. to be spec.

>>Additional Approval:

LA SIL
 L9 Special version, TSP-no. to be spec.

>>Probe Design:

MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
 ME Coax ground tube multiple punched
 M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

NC Gas-tight feed through
 OA Rod center washer d=75mm/2.95", 316L pipe diameter DN80/3" + DN100/4"
 OB Rod center washer d=45mm/1.77", 316L pipe diameter DN50/2" + DN65/2-1/2"
 OC Rope center washer d=75mm/2.95", 316L pipe diameter DN80/3" + DN100/4"
 OD Rod center washer d=48-95mm/1.88-3.74", PEEK, interface measurement, pipe diameter DN50/2" + DN100/4"
 OE Rod center washer d=37mm/1.45", PFA, interface measurement, pipe diameter DN40/1-1/2" + DN50/2"
 O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

PB Weather protection cover
 PG Mounting kit, insulated, rope
 R9 Special version, TSP-no. to be spec.

>Firmware Version:

75 01.01.zz, HART, DevRev02

- 76 01.00.zz, FF, DevRev01
77 01.00.zz, PROFIBUS PA, DevRev01
78 01.00.zz, HART, DevRev01

>>Marking:

- Z1 Tagging (TAG), see additional spec.
Z2 Bus address, see additional spec.

Levelflex FMP52

Measurement: Level, radar, guided.
Version: Premium device.
Coated.
Application: liquids, corrosiv.
Wetted parts FDA listed materials.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in case of moved surface + foam,
for changing medias.

FMP52-
71082672

SPK: FHB



Levelflex FMP52

Approval:

- AA Non-hazardous area
BA ATEX II 1G Ex ia IIC T6
BB ATEX II 1/2G Ex ia IIC T6
BC ATEX II 1/2G Ex d(ia) IIC T6
B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
BD ATEX II 1/3G Ex ic(ia) IIC T6
B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
BG ATEX II 3G Ex nA IIC T6
BH ATEX II 3G Ex ic IIC T6
B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
IA IEC Ex zone 0 Ex ia IIC T6 Ga
IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
IG IEC Ex zone 2 Ex nA IIC T6 Gc
IH IEC Ex zone 2 Ex ic IIC T6 Gc
CA CSA C/US General Purpose
C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
C 2-wire; 4-20mA HART, 4-20mA
K 4-wire 90-253VAC; 4-20mA HART
L 4-wire 10,4-48VDC; 4-20mA HART
Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
C SD02 4-line, push buttons + data backup function
Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
B GT18 dual compartment, 316L
A GT19 dual compartment, Plastics PBT
Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- CA xxx mm, rod 16mm PFA>316L
- CB xxx inch, rod 0.63in PFA>316L
- OA xxx mm, rope 4mm PFA>316, max 150mm nozzle height, center rod
- OB xxx mm, rope 4mm PFA>316, max 300mm nozzle height, center rod
- OC xxx inch, rope 1/6" PFA>316, max 6in nozzle height, center rod
- OD xxx inch, rope 1/6" PFA>316, max 12in nozzle height, center rod
- YY Special version, TSP-no. to be spec.

Process Connection:

- CQK DN40 PN10-40, PTFE>316L flange EN1092-1
- CFK DN50 PN10/16, PTFE>316L flange EN1092-1
- CRK DN50 PN25/40, PTFE>316L flange EN1092-1
- CGK DN80 PN10/16, PTFE>316L flange EN1092-1
- CSK DN80 PN25/40, PTFE>316L flange EN1092-1
- CHK DN100 PN10/16, PTFE>316L flange EN1092-1
- CTK DN100 PN25/40, PTFE>316L flange EN1092-1
- CJK DN150 PN10/16, PTFE>316L flange EN1092-1
- AEK 1-1/2" 150lbs, PTFE>316/316L flange ANSI B16.5
- AQK 1-1/2" 300lbs, PTFE>316/316L flange ANSI B16.5
- AFK 2" 150lbs, PTFE>316/316L flange ANSI B16.5
- ARK 2" 300lbs, PTFE>316/316L flange ANSI B16.5
- AGK 3" 150lbs, PTFE>316/316L flange ANSI B16.5
- ASK 3" 300lbs, PTFE>316/316L flange ANSI B16.5
- AHK 4" 150lbs, PTFE>316/316L flange ANSI B16.5
- ATK 4" 300lbs, PTFE>316/316L flange ANSI B16.5
- AJK 6" 150lbs, PTFE>316/316L flange ANSI B16.5
- KEK 10K 40A, PTFE>316L flange JIS B2220
- KFK 10K 50A, PTFE>316L flange JIS B2220
- KGK 10K 80A, PTFE>316L flange JIS B2220
- KHK 10K 100A, PTFE>316L flange JIS B2220
- TJK Tri-Clamp ISO2852 DN38 (1-1/2"), PTFE>316L
- TDK Tri-Clamp ISO2852 DN40-51 (2"), PTFE>316L
- TFK Tri-Clamp ISO2852 DN70-76.1 (3"), PTFE>316L
- MOK DIN11851 DN50 PN40 slotted-nut, PTFE>316L
- YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

- AA English
- AB German
- AC French
- AD Spanish
- AE Italian
- AF Dutch
- AG Portuguese
- AH Polish
- AI Russian
- AL Japanese
- AM Korean
- AR Czech

>>Application Package:

- EB Interface measurement
- E9 Special version, TSP-no. to be spec.

>Calibration:

- F4 5-point linearity protocol
- F9 Special version, TSP-no. to be spec.

>>Service:

- HC PWIS free, PWIS = paint-wetting impairment substances
- IW W/o Tooling DVD (FieldCare setup)
- IJ Customized parameterization HART
- IK Customized parameterization PA
- IL Customized parameterization FF
- I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

- JD 3.1 Material certificate, pressure retaining parts, EN10204-3.1 inspection certificate
- KE Pressure test, internal procedure, inspection certificate
- K9 Special version, TSP-no. to be spec.

>>Additional Approval:

- LA SIL
- L9 Special version, TSP-no. to be spec.

>>Probe Design:

- MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
- M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

- NC Gas-tight feed through
- OE Rod center washer d=37mm/1.45", PFA, interface measurement, pipe diameter DN40/1-1/2" + DN50/2"
- O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

- PB Weather protection cover
- R9 Special version, TSP-no. to be spec.

>Firmware Version:

- 75 01.01.zz, HART, DevRev02
- 76 01.00.zz, FF, DevRev01
- 77 01.00.zz, PROFIBUS PA, DevRev01
- 78 01.00.zz, HART, DevRev01

>>Marking:

- Z1 Tagging (TAG), see additional spec.
- Z2 Bus address, see additional spec.

Levelflex FMP53

Measurement: Level, radar, guided.
Version: Premium device.
Hygiene.
Application: liquids.
ASME BPE + USP Class VI compliant.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in case of moved surface + foam.
for changing medias.
for filling via spray head.

FMP53-
71082673
SPK: FHB



Levelflex FMP53

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- BC ATEX II 1/2G Ex d(ia) IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BD ATEX II 1/3G Ex ic(ia) IIC T6
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga

- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- DA xxx mm, rod 8mm 316L, Ra<0.76um/30uin
- DB xxx inch, rod 0.31in 316L, Ra <0.76um/30uin
- EA xxx mm, rod 8mm 316L, ep= electro-polished, Ra<0.38um/15uin
- EB xxx inch, rod 0.31in 316L, ep= electro-polished, Ra<0.38um/15uin
- FA xxx mm, rod 8mm 316L, Ra, 500mm divisible, Ra<0.76um/30uin
- FB xxx inch, rod 0.31in 316L, Ra, 20in divisible, Ra<0.76um/30uin
- GA xxx mm, rod 8mm 316L, ep, Ra, 500mm divisible, ep=electro-polished Ra<0.38um/15uin

- GB xxx inch, rod 0.31in 316L, ep,Ra,20in divisible, ep=electro-polished Ra<0.38um/15uin
- HA xxx mm, rod 8mm 316L, Ra, 1000mm divisible, Ra<0.76um/30uin
- HB xxx inch, rod 0.31in 316L, Ra, 40in divisible, Ra<0.76um/30uin
- IA xxx mm, rod 8mm 316L, ep, Ra, 1000mm divisible, ep=electro-polished, Ra<0.38um/15uin

- IB xxx inch, rod 0.31in 316L, ep,Ra,40in divisible, ep=electro-polished Ra<0.38um/15uin
- YY Special version, TSP-no. to be spec.

Seal:

- B5 EPDM, FDA, USP Cl.VI, -20...130oC/ -4...266oF
- C4 Kalrez, FDA, USP Cl.VI, -20...150oC/ -4...302oF
- Y9 Special version, TSP-no. to be spec.

Process Connection:

- U1J Thread M24, 316L, install > accessory weld-in adapter
- TOJ Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TFJ Tri-Clamp ISO2852 DN70-76.1 (3"), 316L
- T7J SMS 1-1/2" PN25, 316L
- TXJ SMS 2" PN25, 316L

MQJ DIN11851 DN40 PN40 slotted-nut, 316L
MOJ DIN11851 DN50 PN40 slotted-nut, 316L
MAJ DIN11864-1 A DN25 tube DIN11866-A, slotted-nut, 316L
MDJ DIN11864-1 A DN50 tube DIN11866-A, slotted-nut, 316L
S1J NEUMO BioControl D25 PN16, 316L
S4J NEUMO BioControl D50 PN16, 316L
S6J NEUMO BioControl D80 PN16, 316L
TSJ Varivent N tube DN40-162 PN16, 316L
YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

AA English
AB German
AC French
AD Spanish
AE Italian
AF Dutch
AG Portuguese
AH Polish
AI Russian
AL Japanese
AM Korean
AR Czech

>>Application Package:

E9 Special version, TSP-no. to be spec.

>Calibration:

F4 5-point linearity protocol
F9 Special version, TSP-no. to be spec.

>>Service:

IW W/o Tooling DVD (FieldCare setup)
IJ Customized parameterization HART
IK Customized parameterization PA
IL Customized parameterization FF
I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

JA 3.1 Material certificate, wetted metallic parts, EN10204-3.1 inspection certificate
KE Pressure test, internal procedure, inspection certificate
KB Surface finish measurement ISO4287/Ra, wetted metallic parts, Inspection certificate
KF 3.1 Material certificate+Delta-Ferrit measurement, internal procedure, wetted metallic parts, EN10204-3.1 inspection certificate

K9 Special version, TSP-no. to be spec.

>>Additional Approval:

LA SIL
LW CoC-ASME BPE
L9 Special version, TSP-no. to be spec.

>>Probe Design:

MA Sensor compact, detachable
MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
MC Sensor remote, 6m/19ft cable, detachable+ mounting bracket
M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

PB Weather protection cover
R9 Special version, TSP-no. to be spec.

>Firmware Version:

75 01.01.zz, HART, DevRev02
76 01.00.zz, FF, DevRev01
77 01.00.zz, PROFIBUS PA, DevRev01
78 01.00.zz, HART, DevRev01

>>Marking:

Z1 Tagging (TAG), see additional spec.

Z2 Bus address, see additional spec.

Levelflex FMP55

Measurement: Interface/Level,
radar, guided.
Version: Premium device.
Multi parameter, coated.
Application: liquids.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
for interface with emulsion,
in case of moved surface + foam,
for changing medias.

FMP55-
71082675

SPK: FHB



Levelflex FMP55

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- BC ATEX II 1/2G Ex d(ia) IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BD ATEX II 1/3G Ex ic(ia) IIC T6
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- B GT18 dual compartment, 316L
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P

- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- CA xxx mm, rod 16mm PFA>316L
- CB xxx inch, rod 0.63in PFA>316L
- NA xxx mm, rope 4mm PFA>316
- ND xxx inch, rope 1/6" PFA>316
- UA xxx mm, coax 316L
- UB xxx inch, coax 316L
- YY Special version, TSP-no. to be spec.

Process Connection:

- CQK DN40 PN10-40, PTFE>316L flange EN1092-1
- CFK DN50 PN10/16, PTFE>316L flange EN1092-1
- CRK DN50 PN25/40, PTFE>316L flange EN1092-1
- CGK DN80 PN10/16, PTFE>316L flange EN1092-1
- CSK DN80 PN25/40, PTFE>316L flange EN1092-1
- CHK DN100 PN10/16, PTFE>316L flange EN1092-1
- CTK DN100 PN25/40, PTFE>316L flange EN1092-1
- CJK DN150 PN10/16, PTFE>316L flange EN1092-1
- AEK 1-1/2" 150lbs, PTFE>316/316L flange ANSI B16.5
- AQK 1-1/2" 300lbs, PTFE>316/316L flange ANSI B16.5
- AFK 2" 150lbs, PTFE>316/316L flange ANSI B16.5
- ARK 2" 300lbs, PTFE>316/316L flange ANSI B16.5
- AGK 3" 150lbs, PTFE>316/316L flange ANSI B16.5
- ASK 3" 300lbs, PTFE>316/316L flange ANSI B16.5
- AHK 4" 150lbs, PTFE>316/316L flange ANSI B16.5
- ATK 4" 300lbs, PTFE>316/316L flange ANSI B16.5
- AJK 6" 150lbs, PTFE>316/316L flange ANSI B16.5
- KEK 10K 40A, PTFE>316L flange JIS B2220
- KFK 10K 50A, PTFE>316L flange JIS B2220
- KGK 10K 80A, PTFE>316L flange JIS B2220
- KHK 10K 100A, PTFE>316L flange JIS B2220
- YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

- AA English
- AB German
- AC French
- AD Spanish
- AE Italian
- AF Dutch
- AG Portuguese
- AH Polish
- AI Russian
- AL Japanese
- AM Korean
- AR Czech

>>Application Package:

- E9 Special version, TSP-no. to be spec.

>Calibration:

- F4 5-point linearity protocol
- F9 Special version, TSP-no. to be spec.

>>Service:

- HC PWIS free, PWIS = paint-wetting impairment substances
- IW W/o Tooling DVD (FieldCare setup)
- IJ Customized parameterization HART
- IK Customized parameterization PA
- IL Customized parameterization FF
- I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

- JA 3.1 Material certificate, wetted metallic parts, EN10204-3.1 inspection certificate

- JD 3.1 Material certificate, pressure retaining parts, EN10204-3.1 inspection certificate
- JE Conformity to NACE MR0103, wetted metallic parts
- KE Pressure test, internal procedure, inspection certificate
- K9 Special version, TSP-no. to be spec.

- >>Additional Approval:**
- LA SIL
- L9 Special version, TSP-no. to be spec.

- >>Probe Design:**
- MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
- M9 Special version, TSP-no. to be spec.

- >>Accessory Mounted:**
- NC Gas-tight feed through
- OE Rod center washer d=37mm/1.45", PFA, interface measurement, pipe diameter DN40/1-1/2" + DN50/2"

- O9 Special version, TSP-no. to be spec.

- >>Accessory Enclosed:**
- PB Weather protection cover
- R9 Special version, TSP-no. to be spec.

- >Firmware Version:**
- 75 01.01.zz, HART, DevRev02
- 76 01.00.zz, FF, DevRev01
- 77 01.00.zz, PROFIBUS PA, DevRev01
- 78 01.00.zz, HART, DevRev01

- >>Marking:**
- Z1 Tagging (TAG), see additional spec.
- Z2 Bus address, see additional spec.

Levelflex FMP57

Measurement: Level, radar, guided.
Version: Premium device.
Application: solids.
Pulling forces up to 30kN.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in dusty atmosphere,
in high + narrow silos,
in vessels + obstacles.

FMP57-
71082677
SPK: FHB



Levelflex FMP57

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BE ATEX II 1D Ex tD IIIC IP6x
- BF ATEX II 1/2D Ex tD IIIC IP6x
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IE IEC Ex zone 20 tD IIIC A20 IP6x Da
- IF IEC Ex zone 20/21 tD IIIC A20/21 IP6x Da/Db
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d

- CD CSA C/US DIP Cl.II,III Div.1 Gr.E-G
- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- FE FM DIP Cl.II,III Div.1 Gr.E-G
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA
- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- B GT18 dual compartment, 316L
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- AE xxx mm, rod 16mm 316L
- AF xxx inch, rod 16mm 316L
- LA xxx mm, rope 4mm, 316
- LB xxx inch, rope 1/6" 316
- LC xxx mm, rope 6mm 316
- NB xxx mm, rope 6mm PA>Steel
- NC xxx mm, rope 8mm PA>Steel
- LD xxx inch, rope 1/4" 316
- NE xxx inch, rope 1/4" PA>Steel
- NF xxx inch, rope 1/3" PA>Steel
- YY Special version, TSP-no. to be spec.

Seal:

- A4 Viton, -30...150oC/-22...302oF
- B3 EPDM, -40...120oC/-40...248oF
- Y9 Special version, TSP-no. to be spec.

Process Connection:

- GGE Thread ISO228 G1-1/2, 304
- RGE Thread ANSI MNPT1-1/2, 304
- CQJ DN40 PN10-40 B1, 316L flange EN1092-1
- CFJ DN50 PN10/16 B1, 316L flange EN1092-1
- CGJ DN80 PN10/16 B1, 316L flange EN1092-1
- CHJ DN100 PN10/16 B1, 316L flange EN1092-1
- CJJ DN150 PN10/16 B1, 316L flange EN1092-1
- CKJ DN200 PN16 B1, 316L flange EN1092-1
- AEJ 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- AJJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- AKJ 8" 150lbs RF, 316/316L flange ANSI B16.5
- KEJ 10K 40A RF, 316L flange JIS B2220
- KFJ 10K 50A RF, 316L flange JIS B2220

KGJ 10K 80A RF, 316L flange JIS B2220
KHJ 10K 100A RF, 316L flange JIS B2220
YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

AA English
AB German
AC French
AD Spanish
AE Italian
AF Dutch
AG Portuguese
AH Polish
AI Russian
AL Japanese
AM Korean
AR Czech

>>Application Package:

E9 Special version, TSP-no. to be spec.

>Calibration:

F4 5-point linearity protocol
F9 Special version, TSP-no. to be spec.

>>Service:

IW W/o Tooling DVD (FieldCare setup)
IJ Customized parameterization HART
IK Customized parameterization PA
IL Customized parameterization FF
I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

JD 3.1 Material certificate, pressure retaining parts, EN10204-3.1 inspection certificate
K9 Special version, TSP-no. to be spec.

>>Additional Approval:

LA SIL
L9 Special version, TSP-no. to be spec.

>>Probe Design:

MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

PB Weather protection cover
PG Mounting kit, insulated, rope
R9 Special version, TSP-no. to be spec.

>Firmware Version:

75 01.01.zz, HART, DevRev02
76 01.00.zz, FF, DevRev01
77 01.00.zz, PROFIBUS PA, DevRev01
78 01.00.zz, HART, DevRev01

>>Marking:

Z1 Tagging (TAG), see additional spec.
Z2 Bus address, see additional spec.

Levelflex M FMP45

Measurement: Level, guided radar.
High pressure / high temperature.
Application: mainly liquids.
Ideal to measure in bypass / chamber.
Factory precalibrated.
Incl. Setup-/diagnostic software.
:: Reliable measuring:
in case of moved surface + foam,
for changing medias.

FMP45-
52019116
SPK: FHB



Levelflex M FMP45

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 1 ATEX II 1/2G Ex ia IIC T6/IECEx Zone0/1
- 6 ATEX II 1/2G Ex ia IIC T6, WHG
- 7 ATEX II 1/2G Ex d (ia) IIC T6/IEC Ex d(ia) IIC T6
- 5 ATEX II 1/2G Ex ia IIC T6, ATEX II 1/3D
- 8 ATEX II 1/2G Ex ia IIC T6 ATEX II 1/3D, WHG
- 3 ATEX II 1/2G Ex emb (ia) IIC T6/IECEx Zone 0/1
- 2 ATEX II 1/2D/IEC Ex tD A20/21, Alu blind cover
- 4 ATEX II 1/3D/IEC Ex tD A20/22
- G ATEX II 3G Ex nA II T6
- M FM DIP Cl.II Div.1 Gr.E-G N.I.
- S FM IS Cl.I,II,III Div.1 Gr.A-G N.I., zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- N CSA General Purpose
- P CSA DIP Cl.II Div.1 Gr.G + Coal dust, N.I.
- U CSA IS Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 1,2
- K TIIS Ex d (ia) IIC T1
- L TIIS Ex d (ia) IIC T2
- R NEPSI Ex nA II T6
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- C NEPSI Ex emb [ia] IIC T6
- Y Special version, TSP-no. to be spec.

Process Temperature:

- A -200...+280oC/-328...+536oF (XT)
- B -200...+400oC/-328...+752oF (HT)
- Y Special version, TSP-no. to be spec.

Probe:

- K xxx mm, rod 16mm, 316L
- S xxx mm,rod 16mm,316L,500mm divisible
- T xxx mm,rod 16mm,316L,1000mm divisible
- M xxx inch, rod 16mm, 316L
- U xxx inch,rod 16mm,316L,20in divisible
- V xxx inch,rod 16mm,316L,40in divisible
- A xxx mm, rope 4mm, 316
- C xxx inch, rope 1/6", 316
- L xxx mm, coax, 316L
- N xxx inch, coax, 316L
- Y Special version, TSP-no. to be spec.

Process Connection:

- GGJ Thread ISO228 G1-1/2, 200bar, 316L
- GJJ Thread ISO228 G1-1/2, 400bar, 316L
- RGJ Thread ANSI NPT1-1/2, 200bar, 316L
- RJJ Thread ANSI NPT1-1/2, 400bar, 316L
- CRJ DN50 PN10-40 B1, 316L flange EN1092-1 (DIN2527 C)
- C1J DN50 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
- C2J DN50 PN100 B2, 316L flange EN1092-1 (DIN2527 E)
- CSJ DN80 PN10-40 B1, 316L flange EN1092-1 (DIN2527 C)
- C3J DN80 PN63 B2, 316L flange EN1092-1 (DIN2527 E)

C4J DN80 PN100 B2, 316L flange EN1092-1 (DIN2527 E)
 CHJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 CTJ DN100 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 C5J DN100 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
 C6J DN100 PN100 B2, 316L flange EN1092-1 (DIN2527 E)
 AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
 ARJ 2" 300/600lbs RF, 316/316L flange ANSI B16.5
 A1J 2" 1500lbs RF, 316/316L flange ANSI B16.5
 AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
 ASJ 3" 300/600lbs RF, 316/316L flange ANSI B16.5
 A2J 3" 1500lbs RF, 316/316L flange ANSI B16.5
 AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
 ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
 A3J 4" 600lbs RF, 316/316L flange ANSI B16.5
 A4J 4" 900lbs RF, 316/316L flange ANSI B16.5
 A5J 4" 1500lbs RF, 316/316L flange ANSI B16.5
 KFJ 10K 50A RF, 316L flange JIS B2220
 KGJ 10K 80A RF, 316L flange JIS B2220
 KHJ 10K 100A RF, 316L flange JIS B2220
 K3J 63K 50A RF, 316L flange JIS B2220
 K4J 63K 80A RF, 316L flange JIS B2220
 K5J 63K 100A RF, 316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Power Supply; Output:

B 2-wire; 4-20mA SIL HART
 D 2-wire; PROFIBUS PA
 F 2-wire; FOUNDATION Fieldbus
 G 4-wire 90-250VAC; 4-20mA SIL HART
 H 4-wire 10.5-32VDC; 4-20mA SIL HART
 K 2-wire; 4-20mA HART, Interface measurement
 Y Special version, TSP-no. to be spec.

Operation:

1 w/o display, via communication
 2 4-line display VU331, Envelope curve display on site
 3 Prepared for FHX40, Remote display (accessory)
 9 Special version, TSP-no. to be spec.

Type of Probe:

1 Compact, basic version
 B Compact, centering disc d=45mm, 316L pipe diameter DN50/2"
 C Compact, centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
 3 Remote, cable 3m, top entry
 F Remote, cable 3m, top, center d=45mm centering disc d=45mm, 316L pipe diameter DN50/2"
 G Remote, cable 3m, top, center d=75mm centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
 4 Remote, cable 3m, side entry
 H Remote, cable 3m, side, center d=45mm centering disc d=45mm, 316L pipe diameter DN50/2"
 I Remote, cable 3m, side, center d=75mm centering disc d=75mm, 316L pipe diameter DN80/3" + DN100/4"
 9 Special version, TSP-no. to be spec.

Housing:

A F12 Alu, coated IP68 NEMA6P
 C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
 B F23 316L IP68 NEMA6P
 D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
 Y Special version, TSP-no. to be spec.

Cable Entry:

2 Gland M20 (EEx d > thread M20)
 3 Thread G1/2
 4 Thread NPT1/2
 5 Plug M12
 6 Plug 7/8"

9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B EN10204-3.1 material, wetted parts, (316L wetted parts for rod/coax) inspection certificate
- C EN10204-3.1 material, pressurized, (316L pressurized for rope version) inspection certificate
- N EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, NACE, 5-point linearity protocol, see additional spec., EN10204-3.1 material, NACE MR0175, (316L wetted parts) inspection certificate
- D Steam boiler app.+EN10204-3.1 material, Steam boiler approval EN12952-11/12953-9 EN10204-3.1 material, wetted parts, (316L wetted parts for rod/coax) inspection certificate
- U Steam boiler app.+300mm/11" gas phase, Steam boiler approval EN12952-11/12953-9 Gas phase comp.300mm/11" reference rod, EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- V Steam boiler app.+550mm/21" gas phase, Steam boiler approval EN12952-11/12953-9 Gas phase comp.550mm/21" reference rod, EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Levelflex M FMP41C

Measurement: Level, guided radar.
Coated.
Application: liquids, corrosive.
Wetted parts FDA listed materials.
Factory precalibrated.
Incl. Setup-/diagnostic software.
:: Reliable measuring:
in case of moved surface + foam,
for changing medias.

FMP41C-
52019115
SPK: FHB



Levelflex M FMP41C

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 1 ATEX II 1/2G Ex ia IIC T6 Note safety instruction (XA) (electrostatic charging)!
- 5 ATEX II 1/2G Ex ia IIC T6, ATEX II 1/3D Note safety instruction (XA) (electrostatic charging)!
- 6 ATEX II 1/2G Ex ia IIC T6, WHG Note safety instruction (XA) (electrostatic charging)!
- 7 ATEX II 1/2G Ex d (ia) IIC T6 Note safety instruction (XA) (electrostatic charging)!
- 8 ATEX II 1/2G Ex ia IIC T6, ATEX II 1/3D, WHG Note safety instruction (XA) (electrostatic charging)!
- 3 ATEX II 2G Ex em (ia) IIC T6 Note safety instruction (XA) (electrostatic charging)!
- G ATEX II 3G Ex nA II T6
- S FM IS Cl.I,II,III Div.1 Gr.A-G N.I., Zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, Zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-D,G+ coal dust, N.I., zone 1,2
- L TIIS Ex d (ia) IIC T4
- R NEPSI Ex nA II T6
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- C NEPSI Ex emb (ia) IIC T6
- Y Special version, TSP-no. to be spec.

Probe:

- K xxx mm, rod PFA>316L
- M xxx inch, rod PFA>316L
- A xxx mm, rope PFA>316, 150mm, Center rod, nozzle height max 150mm

- B xxx mm, rope PFA>316, 300mm, Center rod, nozzle height max 300mm
- C xxx mm, rope PFA>316, 450mm, Center rod, nozzle height max 450mm
- D xxx inch, rope PFA>316, 6inch, Center rod, nozzle height max 6inch
- E xxx inch, rope PFA>316, 12inch, Center rod, nozzle height max 12inch
- G xxx inch, rope PFA>316, 18inch, Center rod, nozzle height max 18inch
- Y Special version, TSP-no. to be spec.

Process Connection:

- TCK Tri-Clamp ISO2852 1-1/2", PTFE >316L
- TJK Tri-Clamp ISO2852 1-1/2", PTFE>316L, 3A EHEDG
- TDK Tri-Clamp ISO2852 2", PTFE >316L
- TLK Tri-Clamp ISO2852 2", PTFE >316L, 3A EHEDG
- TFK Tri-Clamp ISO2852 3", PTFE >316L
- TNK Tri-Clamp ISO2852 3", PTFE >316L, 3A EHEDG
- MRK DIN11851 DN50 PN40 slotted-nut, PTFE>316L
- CEK DN40 PN16-40, PTFE >316L flange EN1092-1 (DIN2527 C)
- CFK DN50 PN10-40, PTFE >316L flange EN1092-1 (DIN2527 C)
- CGK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527 C)
- CSK DN80 PN25/40, PTFE >316L flange EN1092-1 (DIN2527 C)
- CHK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527 C)
- CTK DN100 PN25/40, PTFE >316L flange EN1092-1 (DIN2527 C)
- CJK DN150 PN10/16, PTFE >316L flange EN1092-1 (DIN2527 C)
- AEK 1-1/2" 150lbs, PTFE >316/316L flange ANSI B16.5
- AQK 1-1/2" 300lbs, PTFE >316/316L flange ANSI B16.5
- AFK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
- ARK 2" 300lbs, PTFE >316/316L flange ANSI B16.5
- AGK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
- ASK 3" 300lbs, PTFE >316/316L flange ANSI B16.5
- AHK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
- ATK 4" 300lbs, PTFE >316/316L flange ANSI B16.5
- AJK 6" 150lbs, PTFE >316/316L flange ANSI B16.5
- KEK 10K 40A, PTFE >316L flange JIS B2220
- KFK 10K 50A, PTFE >316L flange JIS B2220
- KGK 10K 80A, PTFE >316L flange JIS B2220
- KHK 10K 100A, PTFE >316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire; 4-20mA SIL HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA SIL HART
- H 4-wire 10.5-32VDC; 4-20mA SIL HART
- K 2-wire; 4-20mA HART, Interface measurement
- Y Special version, TSP-no. to be spec.

Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- 1 Compact, basic version
- 3 Remote, cable 3m, top entry
- 4 Remote, cable 3m, side entry
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
- B F23 316L IP68 NEMA6P
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2

- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- H 5-point linearity protocol, see additional spec.
- K 5-point, 3.1, pressurized, 5-point linearity protocol, see additional spec., EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Levelflex FMP54

Measurement: Level, radar, guided.
Version: Premium device.
High pressure/High temperature.
Application: mainly liquids.
Integrated data memory.
Factory precalibrated.
:: High availability
:: Reliable measuring:
in case of moved surface + foam,
for changing medias,
in dust applications.

FMP54-
71082674
SPK: FHB



Levelflex FMP54

Approval:

- AA Non-hazardous area
- BA ATEX II 1G Ex ia IIC T6
- BB ATEX II 1/2G Ex ia IIC T6
- BC ATEX II 1/2G Ex d(ia) IIC T6
- B2 ATEX II 1/2G Ex ia IIC T6, 1/2D Ex tD IIIC IP6x
- BD ATEX II 1/3G Ex ic(ia) IIC T6
- BF ATEX II 1/2D Ex tD IIIC IP6x
- B3 ATEX II 1/2G Ex d(ia) IIC T6, 1/2D Ex tD IIIC IP6x
- BG ATEX II 3G Ex nA IIC T6
- BH ATEX II 3G Ex ic IIC T6
- B4 ATEX II 1/2G Ex ia IIC T6, Ex d(ia) IIC T6
- IA IEC Ex zone 0 Ex ia IIC T6 Ga
- IB IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb
- IC IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb
- I2 IEC Ex zone 0/1 Ex ia IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- ID IEC Ex zone 0/2 Ex ic(ia) IIC T6 Ga/Gc
- IE IEC Ex zone 20 tD IIIC A20 IP6x Da
- IF IEC Ex zone 20/21 tD IIIC A20/21 IP6x Da/Db
- I3 IEC Ex zone 0/1 Ex d(ia) IIC T6 Ga/Gb, zone 20/21 Ex tD IIIC A20/21 IP6x Da/Db
- IG IEC Ex zone 2 Ex nA IIC T6 Gc
- IH IEC Ex zone 2 Ex ic IIC T6 Gc
- CA CSA C/US General Purpose
- C2 CSA C/US IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex ia
- C3 CSA C/US XP Cl.I,II,III Div.1 Gr.A-G, NI Cl.1 Div.2, Ex d
- CD CSA C/US DIP Cl.II,III Div.1 Gr.E-G
- FB FM IS Cl.I,II,III Div.1 Gr.A-G, AEx ia, NI Cl.1 Div.2
- FD FM XP Cl.I,II,III Div.1 Gr.A-G, AEx d, NI Cl.1 Div.2
- FE FM DIP Cl.II,III Div.1 Gr.E-G
- 8A FM/CSA IS+XP Cl.I,II,III Div.1 Gr.A-G
- 99 Special version, TSP-no. to be spec.

Power Supply; Output:

- A 2-wire; 4-20mA HART
- C 2-wire; 4-20mA HART, 4-20mA

- K 4-wire 90-253VAC; 4-20mA HART
- L 4-wire 10,4-48VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Display, Operation:

- A W/o, via communication
- C SD02 4-line, push buttons + data backup function
- Y Special version, TSP-no. to be spec.

Housing:

- C GT20 dual compartment, Alu coated
- B GT18 dual compartment, 316L
- A GT19 dual compartment, Plastics PBT
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20, IP66/68 NEMA4X/6P
- B Thread M20, IP66/68 NEMA4X/6P
- C Thread G1/2, IP66/68 NEMA4X/6P
- D Thread NPT1/2, IP66/68 NEMA4X/6P
- I Plug M12, IP66/68 NEMA4X/6P
- M Plug 7/8", IP66/68 NEMA4X/6P
- Y Special version, TSP-no. to be spec.

Probe:

- AE xxx mm, rod 16mm 316L
- AF xxx inch, rod 0.63in 316L
- BA xxx mm, rod 16mm 316L, 500mm divisible
- BB xxx inch, rod 0.63in 316L, 20inch divisible
- BC xxx mm, rod 16mm 316L, 1000mm divisible
- BD xxx inch, rod 0.63in 316L, 40inch divisible
- LA xxx mm, rope 4mm, 316
- LB xxx inch, rope 1/6" 316
- UA xxx mm, coax 316L
- UB xxx inch, coax 316L
- YY Special version, TSP-no. to be spec.

Seal:

- D1 Graphite, -196...280oC/-321...536oF (XT)
- D2 Graphite, -196...450oC/-321...842oF (HT)
- Y9 Special version, TSP-no. to be spec.

Process Connection:

- GIJ Thread ISO228 G1-1/2, 200bar, 316L
- GJJ Thread ISO228 G1-1/2, 400bar, 316L
- RAJ Thread ANSI MNPT1-1/2, 200bar, 316L
- RBJ Thread ANSI MNPT1-1/2, 400bar, 316L
- CFJ DN50 PN10/16 B1, 316L flange EN1092-1
- CRJ DN50 PN25/40 B1, 316L flange EN1092-1
- PDJ DN50 PN63 B2, 316L flange EN1092-1
- PNJ DN50 PN100 B2, 316L flange EN1092-1
- CGJ DN80 PN10/16 B1, 316L flange EN1092-1
- CSJ DN80 PN25/40 B1, 316L flange EN1092-1
- PEJ DN80 PN63 B2, 316L flange EN1092-1
- PPJ DN80 PN100 B2, 316L flange EN1092-1
- CHJ DN100 PN10/16 B1, 316L flange EN1092-1
- CTJ DN100 PN25/40 B1, 316L flange EN1092-1
- PFJ DN100 PN63 B2, 316L flange EN1092-1
- PQJ DN100 PN100 B2, 316L flange EN1092-1
- AFJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- AAJ 2" 300/600lbs RF, 316/316L flange ANSI B16.5
- A6J 2" 1500lbs RF, 316/316L flange ANSI B16.5
- AGJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- ABJ 3" 300/600lbs RF, 316/316L flange ANSI B16.5
- A7J 3" 1500lbs RF, 316/316L flange ANSI B16.5
- AHJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- ATJ 4" 300lbs RF, 316/316L flange ANSI B16.5
- AOJ 4" 600lbs RF, 316/316L flange ANSI B16.5
- AZJ 4" 900lbs RF, 316/316L flange ANSI B16.5

A8J 4" 1500lbs RF, 316/316L flange ANSI B16.5
 KFJ 10K 50A RF, 316L flange JIS B2220
 KGJ 10K 80A RF, 316L flange JIS B2220
 KHJ 10K 100A RF, 316L flange JIS B2220
 K3J 63K 50A RF, 316L flange JIS B2220
 K4J 63K 80A RF, 316L flange JIS B2220
 K5J 63K 100A RF, 316L flange JIS B2220
 LNJ Fisher 249B/259B cages 600lbs, 316L, torque tube displacer flange
 LPJ Fisher 249N cages 900lbs, 316L, torque tube displacer flange
 LQJ Masoneilan 7-1/2" 600lbs, 316L torque tube displacer flange
 YYY Special version, TSP-no. to be spec.

>Additional Operation Language:

AA English
 AB German
 AC French
 AD Spanish
 AE Italian
 AF Dutch
 AG Portuguese
 AH Polish
 AI Russian
 AL Japanese
 AM Korean
 AR Czech

>>Application Package:

EB Interface measurement
 EF Gas Phase Compensation, L ref=300mm/11in see additional spec.
 EG Gas Phase Compensation, L ref=550mm/21in see additional spec.
 E9 Special version, TSP-no. to be spec.

>Calibration:

F4 5-point linearity protocol
 F9 Special version, TSP-no. to be spec.

>>Service:

HC PWIS free, PWIS = paint-wetting impairment substances
 IW W/o Tooling DVD (FieldCare setup)
 IJ Customized parameterization HART
 IK Customized parameterization PA
 IL Customized parameterization FF
 I9 Special version, TSP-no. to be spec.

>>Test, Certificate:

JA 3.1 Material certificate, wetted metallic parts, EN10204-3.1 inspection certificate
 JE Conformity to NACE MR0103, wetted metallic parts
 KD Helium leak test, internal procedure, inspection certificate
 KE Pressure test, internal procedure, inspection certificate
 KP Liquid penetrant test AD2000-HP5-3(PT), wetted/pressure retaining metallic parts, inspection certificate
 KS WPQR, WPS to ISO15614/ASME IX/Norsok, wetted/pressure retaining metallic parts
 K9 Special version, TSP-no. to be spec.

>>Additional Approval:

LA SIL
 L9 Special version, TSP-no. to be spec.

>>Probe Design:

MB Sensor remote, 3m/9ft cable, detachable+ mounting bracket
 ME Coax ground tube multiple punched
 M9 Special version, TSP-no. to be spec.

>>Accessory Mounted:

OA Rod center washer d=75mm/2.95", 316L pipe diameter DN80/3" + DN100/4"
 OB Rod center washer d=45mm/1.77", 316L pipe diameter DN50/2" + DN65/2-1/2"
 OC Rope center washer d=75mm/2.95", 316L pipe diameter DN80/3" + DN100/4"
 OD Rod center washer d=48-95mm/1.88-3.74", PEEK, interface measurement, pipe diameter DN40/1-1/2" + DN100/4"
 OE Rod center washer d=37mm/1.45", PFA, interface measurement, pipe diameter

DN40/1-1/2" + DN50/2"
O9 Special version, TSP-no. to be spec.

>>Accessory Enclosed:

PB Weather protection cover
R9 Special version, TSP-no. to be spec.

>Firmware Version:

75 01.01.zz, HART, DevRev02
76 01.00.zz, FF, DevRev01
77 01.00.zz, PROFIBUS PA, DevRev01
78 01.00.zz, HART, DevRev01

>>Marking:

Z1 Tagging (TAG), see additional spec.
Z2 Bus address, see additional spec.

Weld-in adapter M24 D65, 316L, 3.1

Flush mount process connection.
FMP43_040_U1J.
FMP53_100_U1J.
Core hole: 65mm.
Material: 316L
Inspection cert. EN10204-3.1 material.

71041383

SPK: FHS

Weld-in adapter M24 D65, 316L, 3.1

Weld-in adapter M24 D65, 316L

Flush mount process connection.
FMP43_040_U1J.
FMP53_100_U1J.
Core hole: 65mm.
Material: 316L.

71041381

SPK: FHS

Weld-in adapter M24 D65, 316L

Protective cover FMP43/53

Material: 316L.
O-ring EPDM 62,7x1,78mm.
Grounding screw.
Usage: FMP43/53, housing detachable.

71041379

SPK: FHS

Protective cover FMP43/53

Flange + horn ANSI 8" 150psi Levelflex

Thread NPT1-1/2.

Material: 316L.

Usage: Mounting Levelflex.

52014253

SPK: FHS

Flange + horn ANSI 8" 150psi Levelflex

Center washer PEEK 48-95mm/1.89-3.74in

Diameter adaptable.

Statically dissipative.

Tmax 200oC/392oF.

Usage: FMP40/FMP45/FMP51/54.

71069064

SPK: FHS

Center washer PEEK 48-95mm/1.89-3.74in

Center washer PFA 37mm/1.46in

Tmax 150oC/302oF.

Usage: FMP40/FMP41C/FMP45/

FMP51/FMP52/FMP54.

71069065

SPK: FHS

Center washer PFA 37mm/1.46in

Flange + horn ANSI 10" 150psi Levelflex

Thread NPT1-1/2.

Material: 316L.

Usage: Mounting Levelflex.

52014254

SPK: FHS

Flange + horn ANSI 10" 150psi Levelflex

Rod extension (Centring) Levelflex

Centering Levelflex probe in nozzle.

Nozzles height >150mm/6".

Usage: Process connection 1-1/2",
flange.**HMP40-****52014248**

SPK: FHS

Rod extension (Centring) Levelflex

Approval:

- A Non-hazardous area
- 1 ATEX II 1G
- 2 ATEX II 1D
- M FM DIP Cl.II Div.1 Gr.E-G N.I., zone 21,22
- P CSA DIP Cl.II Div.1 Gr.G + Coal dust, N.I.
- S FM Cl.I,II,III Div.1 Gr.A-G N.I., zone 0,1,2,20,21,22
- U CSA Cl.I,II,III Div.1 Gr.A-G N.I., zone 0,1,2

Extension Rod; Nozzle Height:

- 1 115mm; 150-250mm / 6-10"
- 2 215mm; 250-350mm / 10-14"
- 3 315mm; 350-450mm / 14-18"
- 4 415mm; 450-550mm / 14-22"
- 9 Special version, TSP-no. to be spec.

Center Washer:

- A Not selected
- B DN40/1-1/2", inside-d.=40-45mm, PPS
- C DN50/2", inside-d.=50-57mm, PPS
- E DN80/3", inside-d.=76-78mm, PPS
- D DN80/3", inside-d.=80-85mm, PPS
- G DN100/4", inside-d.=100-110mm, PPS
- H DN150/6", inside-d.=152-164mm, PPS
- J DN200/8", inside-d.=210-215mm, PPS
- K DN250/10", inside-d.=253-269mm, PPS
- Y Special version, TSP-no. to be spec.

Flange + horn EN DN200/PN16 Levelflex

Thread G1-1/2.

Material: 316L.

Usage: Mounting Levelflex.

52014251

SPK: FHS

Flange + horn EN DN200/PN16 Levelflex

Isolation tie down of the 6mm rope probe

Isolator: PEEK.

Ring bolt: Stainless Steel.

52014250

SPK: FHS

Isolation tie down of the 6mm rope probe

Calibration kit FMP43/53

Consists of:

Adapter, HF-cables,

Terminator, Instruction.

71041382

SPK: FHS

Calibration kit FMP43/53

Flange + horn DN250/PN16 LevelflexThread G1-1/2.
Material: 316L.
Usage: Mounting Levelflex.**52014252**

SPK: FHS

Flange + horn DN250/PN16 Levelflex

Isolation tie down of the 4mm rope probeIsolator: PPS.
Ring bolt: Stainless Steel.**52014249**

SPK: FHS

Isolation tie down of the 4mm rope probe

Prosonic S FDU91FMeasurement: Level, Ultrasonic, contactless.
Sensor for connection to FMU90/FMU95.
Application: liquids, solids.
Sensor: 316L.
Measuring range: 10m/32ft (liquid), 5m/16ft (solid).
Max -40...105oC/221oF.
Max 4bar/60psi abs.
Blocking distance: 30cm/1ft.
Protection class IP68 NEMA6P.
:: High availability:
Self cleaning effect of sensor membrane.
:: SIP/CIP-suitable.**FDU91F-
71005364**

SPK: FJB



Prosonic S FDU91F

Approval:

- R Non-hazardous area
- J ATEX II 2 G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6
- U CSA General Purpose
- S CSA Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2
- Q FM Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2,21,22
- C IEC Ex ta/tb IIIC Da/Db, IEC Ex ma IIC T6 Gb
- D IEC Ex ma IIC T6 Gb
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, 316L
- N Thread ANSI NPT1, 316L
- F for slip on flange, 316L accessory FAU80
- T Tri-Clamp ISO2852 DN88,9(3-1/2"),316L,3A
- S Tri-Clamp ISO2852 DN101,6(4"), 316L, 3A
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B EN10204-3.1 material, wetted parts, (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic S FDU92

Measurement: Level, Ultrasonic,
contactless.

Sensor for connection to FMU90/FMU95.

Application: liquids, solids.

Sensor: PVDF.

Measuring range: 20m/65ft (liquid),
10m/32ft (solid).

Max -40...95oC/203oF.

Max 4bar/60psi abs.

Blocking distance: 40cm/1.3ft.

Protection class IP68 NEMA6P.

:: High availability:

Self cleaning effect of sensor membrane.

FDU92-
52022816

SPK: FJB



Prosonic S FDU92

Approval:

- R Non-hazardous area
- J ATEX II 2 G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6
- U CSA General Purpose
- S CSA Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2
- Q FM Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2,21,22
- V TIIS Ex is IIC T6
- C IEC Ex ta/tb IIIC Da/Db, IEC Ex ma IIC T6 Gb
- D IEC Ex ma IIC T6 Gb
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, PVDF
- N Thread ANSI NPT1, PVDF
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic S FDU95

Measurement: Level, Ultrasonic, contactless.
 Sensor for connection to FMU90/FMU95.
 Application: solids.
 Membrane: 316L.
 Enclosure: UP.
 Measuring range: 45m/150ft (solid).
 Max 1.5bar/22psi abs.
 Protection class IP68 NEMA6P.
 :: High availability:
 Self cleaning effect of sensor membrane.

FDU95-
52022818
 SPK: FJB



Prosonic S FDU95

Approval:

- R Non-hazardous area
- J ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC
- P FM Cl.II Div.1 Gr.E-G, zone 2,21,22
- U CSA General Purpose
- T CSA Cl.II Div.1 Gr.E-G, zone 2
- C IEC Ex ta/tb IIIC Da/Db
- D IEC Ex ma IIC T6 Gb, IEC Ex ta/tb IIIC Da/Db
- Y Special version, TSP-no. to be spec.

Temperature; Blocking Distance;Material:

- 1 -40...+80oC/176oF; 70cm/2,3ft; membrane 316L, PE coated
- 2 -40...+150oC/302oF; 90cm/2,9ft; membrane 316L
- 9 Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, UP
- N Thread ANSI NPT1, UP
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- 7 xxx m (-40...+150oC/302oF)
- A xxx ft
- B xxx ft (-40...+150oC/302oF)
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic S FDU96

Measurement: Level, Ultrasonic, contactless.
 Sensor for connection to FMU90/FMU95.
 Application: solids.
 Sensor: Alu/PTFE.
 Enclosure: UP.
 Measuring range: 70m/230ft (solid).
 Max -40...150oC/302oF.
 Max 3bar/44psi abs.
 Blocking distance: 160cm/5.2ft.
 Protection class IP68 NEMA6P.
 :: High availability:
 Self cleaning effect of sensor membrane.

FDU96-
52022819
 SPK: FJB



Prosonic S FDU96

Approval:

- R Non-hazardous area
- J ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC, -40...+140oC
- F ATEX II 1/2 D Ex ta/tb IIIC, -40...+80oC
- U CSA General Purpose
- L CSA Cl.II,III Div.1 Gr.E-G, LT, Ambient temperature: -40...+80oC/176oF, zone 2
- T CSA Cl.II,III Div.1 Gr.E-G, HT, Ambient temperature: -40...+140oC/284oF, zone 2
- P FM Cl.I,II,III Div.1+2 Gr.A-G, HT, Ambient temperature: -40...+140oC/284oF, zone 2,21,22
- K FM Cl.I,II,III Div.1+2 Gr.A-G, LT, Ambient temperature: -40...+80oC/176oF, zone 2,21,22
- C IEC Ex ta/tb IIIC Da/Db
- D IEC Ex ma IIC T6 Gb, IEC Ex ta/tb IIIC Da/Db
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, UP
- S Thread ISO228 G1, 304
- N Thread ANSI NPT1, UP
- V Thread ANSI NPT1, 304
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic S FDU91

Measurement: Level, Ultrasonic, contactless.
 Sensor for connection to FMU90/FMU95.
 Application: liquids, solids.
 Sensor: PVDF.
 Measuring range: 10m/32ft (liquid), 5m/16ft (solid).
 Max -40...80oC/176oF.
 Max 4bar/60psi abs.
 Blocking distance: 30cm/1ft.
 :: High availability:
 Self cleaning effect of sensor membrane.

FDU91-
52022815
 SPK: FJB



Prosonic S FDU91

Approval:

- R Non-hazardous area
- J ATEX II 2 G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6
- U CSA General Purpose
- S CSA Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2
- Q FM Cl.I,II,III Div.1+2 Gr.A-G, zone 1,2,21,22
- V TIIS Ex is IIC T6
- C IEC Ex ta/tb IIIC Da/Db, IEC Ex ma IIC T6 Gb
- D IEC Ex ma IIC T6 Gb
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, PVDF
- N Thread ANSI NPT1, PVDF
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Heater:

- A w/o
- B Connection to 24VDC Note Technical Information FMU90! (Temperature compensation)
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic S FDU90

Measurement: Level, Ultrasonic, contactless.
 Sensor for connection to FMU90/FMU95.
 Application: liquids, solids.
 Sensor: PVDF.
 Measuring range: 3m/9ft (liquid), 1,2m/3ft (solid).
 Temperature: -40...80oC/176oF.
 Pressure: 4bar/60psi abs.
 Blocking distance: 7cm/0,3ft.
 Protection class IP68 NEMA6P.
 :: High availability:
 Self cleaning effect of sensor membrane.

FDU90-
71085659
 SPK: FJB



Prosonic S FDU90

Approval:

- R Non-hazardous area
- J ATEX II 2G Ex ma IIC T5
- E ATEX II 1/2D Ex ta/tb IIIC, ATEX II 2G Ex ma IIC T5
- C IEC Ex ta/tb IIIC Da/Db, IEC Ex ma IIC T5 Gb
- D IEC Ex ma IIC T5 Gb
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228, PVDF rear side G1, front side G1-1/2
- N Thread ANSI, PVDF rear side NPT1, front side NPT1-1/2
- W Ceiling mounting front side G1-1/2
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Heater:

- A W/o
- B Connection to 24VDC Note Technical Information FMU90! (Temperature compensation)
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B Flooding protection tube
- Y Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Prosonic S FDU93

Measurement: Level, Ultrasonic, contactless.
Sensor for connection to FMU90/FMU95.
Application: liquids, solids.
Membrane: Alu/PTFE.
Enclosure: UP.
Measuring range: 25m/82ft (liquid), 15m/49ft (solid).
Max -40...95oC/203oF.
Max 3bar/44psi abs.
Blocking distance: 60cm/2ft.
Protection class IP68 NEMA6P.
:: High availability:
Self cleaning effect of sensor membrane.

FDU93-
52022817
SPK: FJB



Prosonic S FDU93

Approval:

- R Non-hazardous area
- J ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6
- E ATEX II 1/2 D Ex ta/tb IIIC
- U CSA General Purpose
- T CSA Cl.I,II,III Div.1 Gr.E-G, zone 2
- P FM Cl.I,II,III Div.1+2 Gr.A-G, zone 2,21,22
- C IEC Ex ta/tb IIIC Da/Db
- D IEC Ex ma IIC T6 Gb, IEC Ex ta/tb IIIC Da/Db
- Y Special version, TSP-no. to be spec.

Process Connection:

- G Thread ISO228 G1, UP
- N Thread ANSI NPT1, UP
- Y Special version, TSP-no. to be spec.

Cable Length:

- 1 5m/16ft
- 2 10m/32ft
- 3 15m/49ft
- 4 20m/65ft
- 5 25m/82ft
- 6 30m/98ft
- 8 xxx m
- A xxx ft
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Prosonic M FMU40

Measurement: Level, Ultrasonic, contactless.
Application: liquids, solids.
Sensor: PVDF, seal: EPDM.
Measuring range: 5m/16ft (liquid), 2m/6ft (solid).
Blocking distance: 25cm/0.8ft.
Incl. Setup-/diagnostic software.
:: High availability:
Self cleaning effect of sensor membrane.
:: Application safety:
independent of dielectricity/density.

FMU40-
52010286
SPK: FJC



Prosonic M FMU40

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- G ATEX II 3G EEx nA II T6
- 2 ATEX II 1/2D, Alu blind cover
- 5 ATEX II 1/3D
- S FM IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- K TIIS EEx ia IIC T6
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- E NEPSI Ex nA II T6
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Process Connection:

- N Thread ANSI NPT1-1/2, PVDF
- R Thread ISO228 G1-1/2B, PVDF
- Y Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire; 4-20mA HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA HART
- H 4-wire 10.5-32VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, Separate conn. compartment
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic M FMU42

Measurement: Level, Ultrasonic, contactless.
 Application: liquids, solids.
 Sensor: PVDF.
 Measuring range: 10m/33ft (liquid), 5m/16ft (solid).
 Blocking distance: 40cm/1.3ft.
 Incl. Setup-/diagnostic software.
 :: High availability:
 Self cleaning effect of sensor membrane.
 :: Application safety:
 independent of dielectricity/density.

FMU42-
52022500
 SPK: FJC



Prosonic M FMU42

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- G ATEX II 3G EEx nA II T6
- 2 ATEX II 1/2D, Alu blind cover
- 5 ATEX II 1/3D
- S FM IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, Zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, Zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- E NEPSI Ex nA II T6
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Process Connection:

- P UNI flange 3"/DN80/80, PP max 2.5bar abs./ 36psia, suitable for 3" 150lbs / DN80 PN16 / 10K 80
- Q UNI flange 3"/DN80/80, PVDF max 2.5bar abs./ 36psia, suitable for 3" 150lbs / DN80 PN16 / 10K 80
- S UNI flange 3"/DN80/80, 316L max 2.5bar abs./ 36psia, suitable for 3" 150lbs / DN80 PN16 / 10K 80
- T UNI flange 4"/DN100/100, PP max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- U UNI flange 4"/DN100/100, PVDF max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- V UNI flange 4"/DN100/100, 316L max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100

- M Mounting bracket FAU20
- Y Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire, 4-20mA HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA HART
- H 4-wire 10.5-32VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Process Sealing Sensor / Flange:

- 2 Viton
- 3 EPDM
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic M FMU41

Measurement: Level, Ultrasonic, contactless.

Application: liquids, solids.

Sensor: PVDF, seal: EPDM.

Measuring range: 8m/26ft (liquid), 3.5m/11ft (solid).

Blocking distance: 35cm/1.15ft.

Incl. Setup-/diagnostic software.

:: High availability:

Self cleaning effect of sensor membrane.

:: Application safety:

independent of dielectricity/density.

Prosonic M FMU41

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- G ATEX II 3G EEx nA II T6
- 2 ATEX II 1/2D, Alu blind cover
- 5 ATEX II 1/3D
- S FM IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- K TIIS EEx ia IIC T6
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia) IIC T6
- E NEPSI Ex nA II T6
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Process Connection:

- N Thread ANSI NPT2, PVDF
- R Thread ISO228 G2, PVDF
- Y Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire; 4-20mA HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA HART
- H 4-wire 10.5-32VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

FMU41-
52010287
SPK: FJC



Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, Separate conn. compartment
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic M FMU43

Measurement: Level, Ultrasonic, contactless.
 Application: liquids, solids.
 Enclosure: UP, seal: EPDM.
 Membrane: 316Ti.
 Measuring range: 15m/48ft (liquid), 7m/22ft (solid).
 Blocking distance: 60cm/2ft.
 Incl. Setup-/diagnostic software.
 :: High availability:
 Self cleaning effect of sensor membrane.
 :: Application safety:
 independent of dielectricity/density.

Prosonic M FMU43

Approval:

- A Non-hazardous area
- 2 ATEX II 1/2D, Alu blind cover
- 5 ATEX II 1/3D
- M FM DIP Cl.II Div.1 Gr.E-G, NI Cl.I Div.2, Zone 2
- N CSA General Purpose
- P CSA DIP Cl.II Div.1 Gr.E-G, NI Cl.I Div.2, zone 2
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Process Connection:

- P UNI slip on flange 4"/DN100/100, PP max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- S UNI slip on flange 4"/DN100/100, 316Ti max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- K w/o slip on flange/mounting bracket> customer side connection
- M Mounting bracket FAU20
- Y Special version, TSP-no. to be spec.

Power Supply; Output:

- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA HART
- H 4-wire 10.5-32VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Operation:

FMU43-
52010288
 SPK: FJC



- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic M FMU44

Measurement: Level, Ultrasonic, contactless.

Application: liquids, solids.

Sensor: PVDF.

Measuring range: 20m/66ft (liquid), 10m/33ft (solid).

Blocking distance: 50cm/1.6ft.

Incl. Setup-/diagnostic software.

:: High availability:

Self cleaning effect of sensor membrane.

:: Application safety:

independent of dielectricity/density.

Prosonic M FMU44

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- 2 ATEX II 1/2D, Alu blind cover
- 5 ATEX II 1/3D
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2, zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- Y Special version, TSP-no. to be spec.

Process Connection:

- T UNI flange 4"/DN100/100, PP max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- U UNI flange 4"/DN100/100, PVDF max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- V UNI flange 4"/DN100/100, 316L max 2.5bar abs./ 36psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- E UNI flange 6"/DN150/150, PP max 2.5bar abs./ 36psia, suitable for 6" 150lbs / DN150 PN16 / 10K 150
- F UNI flange 6"/DN150/150, PVDF max 2.5bar abs./ 36psia, suitable for 6" 150lbs / DN150 PN16 / 10K 150
- G UNI flange 6"/DN150/150, 316L max 2.5bar abs./ 36psia, suitable for 6" 150lbs / DN150 PN16 / 10K 150
- H UNI flange DN200/200, PP max 2.5bar abs./ 36psia, suitable for DN200 PN16 / 10K 200
- J UNI flange DN200/200, PVDF max 2.5bar abs./ 36psia, suitable for DN200 PN16 / 10K 200
- K UNI flange DN200/200, 316L max 2.5bar abs./ 36psia, suitable for DN200 PN16 / 10K 200
- L 8" 150lbs FF, PP max 2.5bar abs./ 36psia
- N 8" 150lbs FF, PVDF max 2.5bar abs./ 36psia

FMU44-
71026878
SPK: FJC



- A 8" 150lbs FF, 316L max 2.5bar abs./ 36psia
- M Mounting bracket FAU20
- Y Special version, TSP-no. to be spec.

Power Supply; Output:

- B 2-wire, 4-20mA HART
- D 2-wire; PROFIBUS PA
- F 2-wire; FOUNDATION Fieldbus
- G 4-wire 90-250VAC; 4-20mA HART
- H 4-wire 10.5-32VDC; 4-20mA HART
- Y Special version, TSP-no. to be spec.

Operation:

- 1 w/o display, via communication
- 2 4-line display VU331, Envelope curve display on site
- 3 Prepared for FHX40, Remote display (accessory)
- 9 Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP68 NEMA6P
- C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
- D T12 Alu, coated IP68 NEMA6P + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Process Sealing Sensor / Flange:

- 2 Viton
- 3 EPDM
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic T FMU30

Level transmitter, continuous.
Measuring: ultrasonic, contactless.
Housing F16 single compartment, plastic.
Sensor enclosure: PP.
Sensor membrane: EPDM.
Process temperature: -20...60oC/
-4...140oF.
2-wire, 4-20mA.
Process pressure: max 3bar abs.
Operating languages
(de,en,nl,fr,es,it,ja).
:: Measuring range freely adjustable.
:: Volume calculation possible.
Application safety.
:: Integr. sound velocity compensation.
:: Self cleaning effect sensor membran.

FMU30-
71098185
SPK: FJC



Prosonic T FMU30

Approval:

- AA Non-hazardous area
- 99 Special version, TSP-no. to be spec.

Display; Operating:

- G W/o; via Commubox + ToF adapter FXA291
- H Envelope curve display on site; push button
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- E Gland M20, IP68
- F Thread G1/2, IP68
- G Thread NPT1/2, IP68
- Y Special version, TSP-no. to be spec.

Sensor; Max Range; Blocking Distance:

- AA 1-1/2"; 5m liquid/ 2m solid; 0.25m
- AB 2"; 8m liquid/ 3.5m solid; 0.35m
- YY Special version, TSP-no. to be spec.

Process Connection:

- GGF Thread ISO228 G1-1/2, PP
- GHF Thread ISO228 G2, PP
- RGF Thread ANSI MNPT1-1/2, PP
- RHF Thread ANSI MNPT2, PP
- YYY Special version, TSP-no. to be spec.

>>Accessory Enclosed:

- RA UNI flange 2"/DN50/50, PP max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- RB UNI flange 2"/DN50/50, PVDF max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- RC UNI flange 2"/DN50/50, 316L max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- RD UNI flange 3"/DN80/80, PP max 4bar abs/58psia, suitable for 3" 150lbs/DN80 PN16/10K 80
- RE UNI flange 3"/DN80/80, PVDF max 4bar abs/58psia, suitable for 3" 150lbs/DN80 PN16/10K 80
- RF UNI flange 3"/DN80/80, 316L max 4bar abs/58psia, suitable for 3" 150lbs/DN80 PN16/10K 80
- RG UNI flange 4"/DN100/100, PP max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
- RH UNI flange 4"/DN100/100, PVDF max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
- RI UNI flange 4"/DN100/100, 316L max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
- R9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Prosonic S FMU90

Evaluation: Level/Flow,
Continuous + switch output.
Application: up to 2 sensors,
Ex/non Ex: FDU9x, FDU80/80F/81/81F/82;
non Ex: FDU83/84/85/86.
32 points linearization.
Incl. Setup-/diagnostic software.
:: Simple guided setup:
automatic sensor recognition FDU9x,
menu-guided clear text commissioning.

Prosonic S FMU90

Approval:

- R Non-hazardous area
- J ATEX II 3D
- N CSA General Purpose
- Y Special version, TSP-no. to be spec.

Application:

- 1 Level + pump control, Alternating
- 2 Flow + totalizer + Level + Sample control + Preprogrammed OCM flow curves

FMU90-
52022820
SPK: FJK



- 3 Level + additional pump control
- 4 Universal instrument (Level + Flow + additional pump control)
- 9 Special version, TSP-no. to be spec.

Housing, Material:

- 1 Field mounting PC, IP66 NEMA4x
- 2 DIN Rail mounting PBT, IP20
- 9 Special version, TSP-no. to be spec.

Operation:

- C Illuminated display + keypad
- E Illuminated display + keypad, 96x96, panel mounting, front IP65
- K w/o display, via communication
- Y Special version, TSP-no. to be spec.

Power Supply:

- A 90-253VAC
- B 10,5-32VDC
- Y Special version, TSP-no. to be spec.

Level Input:

- 1 1x sensor FDU9x/8x
- 2 2x sensor FDU9x/8x
- 9 Special version, TSP-no. to be spec.

Switch Output:

- 1 1x relay, SPDT
- 3 3x relay, SPDT
- 6 6x relay, SPDT
- 9 Special version, TSP-no. to be spec.

Output:

- 1 1x 0/4-20mA HART
- 2 2x 0/4-20mA HART
- 3 PROFIBUS DP
- 9 Special version, TSP-no. to be spec.

Additional Input:

- A w/o
- B 4x point level switch + 1x temperature PT100/FMT131
- Y Special version, TSP-no. to be spec.

Datalog Function:

- A Basic version
- Y Special version, TSP-no. to be spec.

Language:

- 1 de, en, nl, fr, es, it, pt
- 2 de, en, ru, pl, cs
- 3 en, zh, ja, ko, th, id
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Prosonic S FMU95

Evaluation: Level, continuous.
 Application: up to 10 sensors,
 Ex/non Ex: FDU9x, FDU80/80F/81/81F/82;
 non Ex: FDU83/84/85/86.
 32 points linearization.
 Sum-/average calculation.
 :: Simple guided setup:
 automatic sensor recognition FDU9x,
 menu-guided clear text commissioning.

FMU95-
52022821
 SPK: FJK



Prosonic S FMU95

Approval:

- R Non-hazardous area
- J ATEX II 3D
- N CSA General Purpose
- Y Special version, TSP-no. to be spec.

Application:

- 1 Level
- 9 Special version, TSP-no. to be spec.

Housing:

- 1 Field mounting PC, IP66 NEMA4X
- 2 DIN Rail mounting PBT, IP20
- 9 Special version, TSP-no. to be spec.

Operation:

- C Illuminated display + keypad
- E Illuminated display + keypad, 96x96, panel mounting, front IP65
- K w/o display, via communication
- Y Special version, TSP-no. to be spec.

Power Supply:

- A 90-253VAC
- B 10,5-32VDC
- Y Special version, TSP-no. to be spec.

Level Input:

- A 5x Sensor FDU9x/8x
- B 10x Sensor FDU9x/8x
- Y Special version, TSP-no. to be spec.

Output:

- 3 PROFIBUS DP
- 9 Special version, TSP-no. to be spec.

Language:

- 1 de, en, nl, fr, es, it, pt
- 2 de, en, ru, pl, cs
- 3 en, zh, ja, ko, th, id
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Temperature probe FMT131

External temperature sensor (NTC).
Connection to FMU90/FMU8xx.
Housing: POM, IP65.
Thermowell: 316Ti.
Process connection G1/2.

FMT131-
919999-9000
SPK: FJR

Temperature probe FMT131

Approval:

- R Non-hazardous area
- J ATEX II 2G EEx m II T6/T5
- Q FM Cl.I Div.1 Gr.A-D, zone 1,2
- S CSA Class I Div.1, zone 1,2

Cable Length:

-
- 1 5m/16ft
 - 2 10m/32ft
 - 3 15m/49ft
 - 4 20m/65ft
 - 5 25m/82ft
 - 6 30m/98ft
 - 7 w/o cable, gland Pg16, IP66
 - 8 xxx m
 - A xxx feet
 - 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
-

Extension cable FDU95/FDU96, silicone HT

Li2G2G 2x(0,75)D+1x0,75.

Usage: Connection to FMU90/FMU95.

Temperature range: -40...150oC/302oF.

Length max 500m.

Price per meter.

71027745

SPK: FJR

Extension cable FDU95/FDU96, silicone HT

Extension cable FDU91F/93/95, PVC

LIYY/CUL 2x(0,75)D+1x0,75.

Usage: Connection to FMU90/FMU95.

Temperature range: -40...95oC/203oF.

Length max 500m.

Price per meter.

71027743

SPK: FJR

Extension cable FDU91F/93/95, PVC

Extension cable FDU91/FDU92, PVC

LiYCY/CUL 2x(0,75).

Usage: Connection to FMU90/FMU95.

Length max 500m.

Price per meter.

71027742

SPK: FJR

Extension cable FDU91/FDU92, PVC

Extension cable FDU91, PVC + heater

LIYY/CUL 2x(0,75)D+2x0,75.

Usage: Connection to FMU90/FMU95.

Length max 500m.

Price per meter.

71027746

SPK: FJR

Extension cable FDU91, PVC + heater

Alignment device TTP FAU40

Aiming ultrasonic sensors for optimum echo signal in separate version.
Usage: FDU-sensors.
Also for use in ATEX II 1/2D.

FAU40-
919215-9000

SPK: FJS

Alignment device TTP FAU40

Process Connection:

- 1 Welding flange, 304 Diameter 155mm/6.1inch
- 2 UNI flange 2"/DN50/50, 304 max 1.5bar abs./ 22psia, suitable for 2" 150lbs / DN50 PN16 / 10K 50
- 9 Special version, TSP-no. to be spec.

Sensor Connection:

- G Thread G1, gland M20, steel zinc coated
 - N Thread NPT1, entry 3/4, steel zinc coated
 - S Thread G1, gland M20, 304
 - Y Special version, TSP-no. to be spec.
-

Wall bracket for sensor support, SS

Material: 316Ti.

919792-0001

SPK: FJS

Wall bracket for sensor support, SS

Flooding protection tube FDU90

Thread ISO228 G1-1/2.
Usage: FDU90.

71091216

SPK: FJS

Flooding protection tube FDU90

Sensor support 1000mm, ST, 2"-sensor

Mounting 2"-sensor.
Material: Steel zinc coated.
Usage: Installation brackets.

52014137

SPK: FJS

Sensor support 1000mm, ST, 2"-sensor

Mounting bracket Prosonic S

Material: 316L.
Usage: FDU9x.

71093130

SPK: FJS

Mounting bracket Prosonic S

Protection cover FMU30

71127762

SPK: FJS

Protection cover FMU30

Sensor support 500mm, SS, 2"-sensor

Mounting 2"-sensor.
Material: 316Ti.
Usage: Installation brackets.

52014136

SPK: FJS

Sensor support 500mm, SS, 2"-sensor

Sensor support 500mm, ST, 2"-sensor

Mounting 2"-sensor.
Material: Steel zinc coated.
Usage: Installation brackets.

52014135

SPK: FJS

Sensor support 500mm, ST, 2"-sensor

Wall bracket for sensor support, ST

Material: Steel zinc coated.

919792-0000

SPK: FJS

Wall bracket for sensor support, ST

Bracket 1400mm, SSPipe diameter: 1".
Material: 316Ti.
Usage: Sensor support /
housing FMU9x/FMU86x.**919791-0003**

SPK: FJS

Bracket 1400mm, SS

Sensor support 1000mm, SS, 1.5"-sensorMounting 1-1/2"-sensor.
Material: 316Ti.
Usage: Installation brackets.**52014134**

SPK: FJS

Sensor support 1000mm, SS, 1.5"-sensor

Bracket 1400mm, STPipe diameter: 1".
Material: Steel zinc coated.
Usage: Sensor support /
housing FMU9x/FMU86x.**919791-0002**

SPK: FJS

Bracket 1400mm, ST

Sensor support 1000mm, SS, 2"-sensorMounting 2"-sensor.
Material: 316Ti.
Usage: Installation brackets.**52014138**

SPK: FJS

Sensor support 1000mm, SS, 2"-sensor

Protection cover FDU90/91

Material: PVDF.

52025686

SPK: FJS

Protection cover FDU90/91

Bracket 700mm, SS

Pipe diameter: 1".
Material: 316Ti.
Usage: Sensor support /
housing FMU9x/FMU86x.

919791-0001

SPK: FJS

Bracket 700mm, SS

Mounting plate FMU90/95 fieldhousing

Material: 316Ti.
Usage: Pipe, 1" / 2".

52024478

SPK: FJS

Mounting plate FMU90/95 fieldhousing

Protection cover FMU90/95 fieldhousing

Material: 316Ti.

52024477

SPK: FJS

Protection cover FMU90/95 fieldhousing

Sensor support 500mm, ST, US-sensor

Mounting Ultrasonic sensor.
Material: galvanized Steel.
Usage: Bracket / wall bracket,
FDU9x/FDU8x.

919790-0000

SPK: FJS

Sensor support 500mm, ST, US-sensor

Sensor support 500mm, SS, US-sensor

Mounting Ultrasonic sensor.
Material: 316Ti.
Usage: Bracket / wall bracket,
FDU9x/FDU8x.

919790-0001

SPK: FJS

Sensor support 500mm, SS, US-sensor

Sensor support 1000mm, ST, US-sensor

Mounting Ultrasonic sensor.
Material: galvanized Steel.
Usage: Bracket / wall bracket,
FDU9x/FDU8x.

919790-0002

SPK: FJS

Sensor support 1000mm, ST, US-sensor

Sensor support 1000mm, SS, US-sensor

Mounting Ultrasonic sensor.
Material: 316Ti.
Usage: Bracket / wall bracket,
FDU9x/FDU8x.

919790-0003

SPK: FJS

Sensor support 1000mm, SS, US-sensor

Bracket 700mm, ST

Pipe diameter: 1".
Material: Steel zinc coated.
Usage: Sensor support /
housing FMU9x/FMU86x.

919791-0000

SPK: FJS

Bracket 700mm, ST

Adaption plate ext.displayFMU86x>FMU9x

Conversion external panel display FMU86x
144x144 (opening 138x138) > FMU9x 96x96.

52027441

SPK: FJS

Adaption plate ext.displayFMU86x>FMU9x

Sensor support 500mm, SS, 1.5"-sensor

Mounting 1-1/2"-sensor.
Material: 316Ti.
Usage: Installation brackets.

52014132

SPK: FJS

Sensor support 500mm, SS, 1.5"-sensor

Sensor support 500mm, ST, 1.5"-sensor

Mounting 1-1/2"-sensor.
Material: Steel zinc coated.
Usage: Installation brackets.

52014131

SPK: FJS

Sensor support 500mm, ST, 1.5"-sensor

Sensor support 1000mm, ST, 1.5"-sensor

Mounting 1-1/2"-sensor.
Material: Steel zinc coated.
Usage: Installation brackets.

52014133

SPK: FJS

Sensor support 1000mm, ST, 1.5"-sensor

Weather protection cover FMT131

Material: 316Ti, G1/2.

942046-0000

SPK: FJS

Weather protection cover FMT131

Slip-on flange FAU80

Usage: FDU80F/FDU81F/FDU91F.

FAU80-**942837-9000**

SPK: FJS

Slip-on flange FAU80

Process Connection:

CA DN80 PN16 A, flange EN1092-1(DIN2527 B)
CH DN100 PN16 A, flange EN1092-1(DIN2527 B)
AA 3" 150lbs FF, flange ANSI B16.5
AH 4" 150lbs FF, flange ANSI B16.5
KA 10K 80A FF, flange JIS B2220
KH 10K 100A FF, flange JIS B2220
YY Special version, TSP-no. to be spec.

Flange Material:

J 316L
P PPs, max 1.5bar abs
Y Special version, TSP-no. to be spec.

Installation bracket 250x400x120 G2

Material: 316Ti.

Usage: Prosonic T, Prosonic M.

942669-0001

SPK: FJS

Installation bracket 250x400x120 G2

Installation bracket 250x400x120 G1-1/2

Material: 316Ti.

Usage: Prosonic T, Prosonic M.

942669-0000

SPK: FJS

Installation bracket 250x400x120 G1-1/2

Mounting bracket FAU20

Material: 316Ti.
Usage: Mounting
FMU42/FMU43/FMU44/FMU232.

942666-0000

SPK: FJS

Mounting bracket FAU20

Adapter cable FMU9x

Connection service tool RS232(52013675)>
Prosonic S

52026736

SPK: FJW

Adapter cable FMU9x

Micropilot S FMR540

High precision level measurement, radar,
26GHz, non contact.
Application: liquids.
4-wire connection.
Setup-/diagnostic software
included.
Volume calculation / Linearization.
Free space application.
High precision measurement.
:: Independent of temperature/pressure.
:: Independent of steam.
:: Independent of gas layers.
:: Pressure/gastight process separation.

FMR540-**52023827**

SPK: FLB

Micropilot S FMR540

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 6 ATEX II 1/2G EEx ia IIC T6, WHG
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- K TIIS Ex ia IIC T2
- L TIIS Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Antenna; Seal:

- E 100mm/4" horn, Align. device; FKM Viton GLT
- G 200mm/8" Parabolic, Align. device; FKM Viton GLT
- H 250mm/10" Parabolic, Align. device; FKM Viton GLT
- 9 Special version, TSP-no. to be spec.

Antenna Extension:

- 1 w/o
- 2 150mm/6"
- 3 250mm/10"
- 4 450mm/18"



- 9 Special version, TSP-no. to be spec.

Process Connection:

- CQJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
CKJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
C6J DN250 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
AVJ 6" 150lbs RF, 316/316L flange ANSI B16.5
AKJ 8" 150lbs RF, 316/316L flange ANSI B16.5
A5J 10" 150lbs RF, 316/316L flange ANSI B16.5
KHJ 10K 100A RF, 316L flange JIS B2220
KVJ 10K 150A RF, 316L flange JIS B2220
KDJ 10K 200A RF, 316L flange JIS B2220
K5J 10K 250A RF, 316L flange JIS B2220
LHJ 100A 150lbs RF, 316/316L flange JPI 7S-15
LJJ 150A 150lbs RF, 316/316L flange JPI 7S-15
LKJ 200A 150lbs RF, 316/316L flange JPI 7S-15
LLJ 250A 150lbs RF, 316/316L flange JPI 7S-15
XVJ UNI flange DN150/6"/150, 316L Max PN1/14.5lbs/1K, suitable for DN150 PN10/16, 6" 150lbs, 10K 150

X3J UNI flange DN200/8"/200, 316L Max PN1/14.5lbs/1K, suitable for DN200 PN10/16, 8" 150lbs, 10K 200

X5J UNI flange DN250/10"/250, 316L Max PN1/14.5lbs/1K, suitable for DN250 PN10/16, 10" 150lbs, 10K 250

- YY9 Special version, TSP-no. to be spec.

Output; Operating:

- A 4-20mA HART; 4-line display VU331, envelope curve display on site
Y Special version, TSP-no. to be spec.

Housing:

- C T12 Alu, coated IP68 NEMA6P, separate conn. compartment
Y Special version, TSP-no. to be spec.

Cable Entry:

- 1 Thread M20
2 Gland M20
3 Thread G1/2
4 Thread NPT1/2
9 Special version, TSP-no. to be spec.

Weight + Measure Approval:

- A NMI (<1mm) Type approval
F NMI witnessed initial verificat. (<1mm) Type approval
G PTB witnessed initial verificat. (<1mm) Type approval
R Not selected; Inventory control Version (3mm)
Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Micropilot S FMR530

High precision level measurement, radar,
non contact.

Application: liquids.

Horn antenna; 4-wire connection.

Setup-/diagnostic software
included.

Volume calculation possible.

Free space application.

High precision measurement.

:: Independent of temperature/pressure.

:: Independent of steam.

:: Independent of gas layers.

:: Pressure/gastight process separation.

**FMR530-
52005790**

SPK: FLB



Micropilot S FMR530

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 6 ATEX II 1/2G EEx ia IIC T6, WHG
- G ATEX II 3G EEx nA II T6
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- K TIIS Ex ia IIC T3
- L TIIS Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Antenna; Seal:

- M 80mm/3"; FKM, non-conductive media
- P 80mm/3"; Kalrez, non-conductive media
- I 100mm/4", FKM, non-conductive media
- K 100mm/4", Kalrez, non-conductive media
- A 150mm/6", FKM, non-conductive media
- C 150mm/6", Kalrez, non-conductive media
- U 200mm/8", FKM, non-conductive media
- W 200mm/8", Kalrez, non-conductive media
- E 250mm/10", FKM, non-conductive media
- G 250mm/10", Kalrez, non-conductive media
- Y Special version, TSP-no. to be spec.

Process Connection:

- CMJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CNJ DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CQJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CRJ DN100 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CXJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- C6J DN250 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- ALJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- AMJ 3" 300lbs RF, 316/316L flange ANSI B16.5
- APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- AQJ 4" 300lbs RF, 316/316L flange ANSI B16.5
- AVJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- A3J 8" 150lbs RF, 316/316L flange ANSI B16.5
- A5J 10" 150lbs RF, 316/316L flange ANSI B16.5
- KA2 10K 80A RF, 316Ti flange JIS B2220
- KD2 10K 200A RF, 316Ti flange JIS B2220
- KH2 10K 100A RF, 316Ti flange JIS B2220
- KV2 10K 150A RF, 316Ti flange JIS B2220
- K52 10K 250A RF, 316Ti flange JIS B2220
- LJJ 150A 150lbs RF, 316/316L flange JPI 7S-15
- LKJ 200A 150lbs RF, 316/316L flange JPI 7S-15
- LLJ 250A 150lbs RF, 316/316L flange JPI 7S-15
- YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA HART; 4-line display VU331, Envelope curve display on site

Y Special version, TSP-no. to be spec.

Housing:

C T12 Alu, coated IP65 NEMA4X, Separate conn. compartment

Y Special version, TSP-no. to be spec.

Cable Entry:

2 Gland M20

3 Thread G1/2

4 Thread NPT1/2

9 Special version, TSP-no. to be spec.

Weight + Measure Approval:

A NMI + PTB (<1mm) Type approval

F NMI witnessed initial verificat. (<1mm) Type approval

G PTB witnessed initial verificat. (<1mm) Type approval

R Not selected; Inventory control Version (3mm)

Y Special version, TSP-no. to be spec.

Additional Option:

A Basic version

S GL/ABS marine certificate

Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

1 Tagging (TAG), see additional spec.

Micropilot S FMR533

High precision level measurement, radar, non contact.

Application: liquids.

Parabolic antenna; 4-wire connection.

Setup-/diagnostic software included.

Volume calculation / Linearization.

Free space application.

High precision level measurement, radar.

:: Independent of temperature/pressure.

:: Independent of steam.

:: Independent of gas layers.

:: Pressure/gastight process separation.

FMR533-

52005793

SPK: FLB



Micropilot S FMR533

Approval:

A Non-hazardous area

1 ATEX II 1/2G EEx ia IIC T6, XA Note safety instruction (XA) (electrostatic charging)!

6 ATEX II 1/2G EEx ia IIC T6, WHG, XA Note safety instruction (XA) (electrostatic charging)!

G ATEX II 3G EEx nA II T6

S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2

U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2

K TIIS Ex ia IIC T3

L TIIS Ex ia IIC T6

Y Special version, TSP-no. to be spec.

Antenna:

A 450mm/20", Parabolic,no wetted O-ring

Y Special version, TSP-no. to be spec.

Process Connection:

CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)

CXJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)

C6J DN250 PN16 B1, 316L flange EN1092-1 (DIN2527 C)

AVJ 6" 150lbs RF, 316/316L flange ANSI B16.5

A3J 8" 150lbs RF, 316/316L flange ANSI B16.5

A5J 10" 150lbs RF, 316/316L flange ANSI B16.5

KVJ 10K 150A RF, 316L flange JIS B2220

KDJ 10K 200A RF, 316L flange JIS B2220

K5J 10K 250A RF, 316L flange JIS B2220

- LJJ 150A 150lbs RF, 316/316L flange JPI 7S-15
- LKJ 200A 150lbs RF, 316/316L flange JPI 7S-15
- LLJ 250A 150lbs RF, 316/316L flange JPI 7S-15
- XXJ With flange hub, 316L
- XVU UNI flange 6"/DN150/150, 304 Max 14.5lbs/PN1/1K, suitable for 6" 150lbs / DN150 PN16 / 10K 150

YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA HART; 4-line display VU331, Envelope curve display on site
- Y Special version, TSP-no. to be spec.

Housing:

- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20
- 3 Thread G1/2
- 4 Thread NPT1/2
- 9 Special version, TSP-no. to be spec.

Weight + Measure Approval:

- A NMI + PTB (<1mm) Type approval
- F NMI witnessed initial verificat. (<1mm) Type approval
- G PTB witnessed initial verificat. (<1mm) Type approval
- R Not selected; Inventory control Version (3mm)
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Micropilot S FMR532

High precision level measurement, radar, non contact.

Application: liquids.

Planar antenna; 4-wire connection.

Setup-/diagnostic software included.

Volume calculation / Linearization.

Free space application.

High precision level measurement, radar.

:: Independent of temperature/pressure.

:: Independent of steam.

:: Independent of gas layers.

:: Pressure/gastight process separation.

Micropilot S FMR532

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- 6 ATEX II 1/2G EEx ia IIC T6, WHG, XA Note safety instruction (XA) (electrostatic charging)!
- G ATEX II 3G EEx nA II T6
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- K TIIS Ex ia IIC T3
- L TIIS Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Antenna:

- 1 150mm/6", PTFE surface, FKM, Planar
- 2 200mm/8", PTFE surface, FKM, Planar
- 3 250mm/10", PTFE surface, FKM, Planar
- 4 300mm/12", PTFE surface, FKM, Planar

**FMR532-
52005792
SPK: FLB**



Y Special version, TSP-no. to be spec.

Process Connection:

- CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 C1J DN150 PN25 B1, 316L flange EN1092-1 (DIN2527 C)
 CXJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
 CZJ DN200 PN25 B1, 316L flange EN1092-1 (DIN2527 C)
 C6J DN250 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
 C8J DN300 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
 AVJ 6" 150lbs RF sch.40, 316/316L flange ANSI B16.5
 AWJ 6" 300lbs RF sch.40, 316/316L flange ANSI B16.5
 A3J 8" 150lbs RF sch.40, 316/316L flange ANSI B16.5
 AXJ 8" 300lbs RF sch.40, 316/316L flange ANSI B16.5
 A5J 10" 150lbs RF sch.40, 316/316L flange ANSI B16.5
 A7J 12" 150lbs RF, 316/316L flange ANSI B16.5
 KVJ 10K 150A RF, 316L flange JIS B2220
 KWJ 20K 150A RF, 316L flange JIS B2220
 KDJ 10K 200A RF, 316L flange JIS B2220
 KXJ 20K 200A RF, 316L flange JIS B2220
 K5J 10K 250A RF, 316L flange JIS B2220
 LJJ 150A 150lbs RF, 316/316L flange JPI 7S-15
 LKJ 200A 150lbs RF, 316/316L flange JPI 7S-15
 LLJ 250A 150lbs RF, 316/316L flange JPI 7S-15
 LMJ 300A 150lbs RF, 316/316L flange JPI 7S-15
 XXJ With flange hub, 316L
 XVU UNI flange 6"/DN150/150, 304 Max 14.5lbs/PN1/1K, suitable for 6" 150lbs / DN150 PN16 / 10K 150
 X3U UNI flange 8"/DN200/200, 304 Max 14.5lbs/PN1/1K, suitable for 8" 150lbs / DN200 PN16 / 10K 200
 X5U UNI flange 10"/DN250/250, 304 Max 14.5lbs/PN1/1K, suitable for 10" 150lbs / DN250 PN16 / 10K 250
 X7U UNI flange 12"/DN300/300, 304 Max 14.5lbs/PN1/1K, suitable for 12" 150lbs / DN300 PN16 / 10K 300
 YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA HART; 4-line display VU331, Envelope curve display on site
 Y Special version, TSP-no. to be spec.

Housing:

- C T12 Alu, coated IP65 NEMA4X, Separate conn. compartment
 Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20
 3 Thread G1/2
 4 Thread NPT1/2
 9 Special version, TSP-no. to be spec.

Weight + Measure Approval:

- A NMI + PTB (<1mm) Type approval
 F NMI witnessed initial verificat. (<1mm) Type approval
 G PTB witnessed initial verificat. (<1mm) Type approval
 R Not selected; Inventory control Version (3mm)
 Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
 S GL/ABS marine certificate
 Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Micropilot M FMR250

Measurement: Level, Radar contactless.
Application: solids.
2-wire connection.
Incl. Setup-/diagnostic software.
:: High availability:
independent of dust/filling noise.
:: Application safety:
independent of temperature/pressure.

FMR250-
52023653
SPK: FLC



Micropilot M FMR250

Approval:

- A Non-hazardous area
- 1 ATEX II 1/2G EEx ia IIC T6
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- G ATEX II 3G EEx nA II T6
- B ATEX II 1/2GD EEx ia IIC T6, Alu blind cover
- C ATEX II 1/2G EEx ia IIC T6, ATEX II 1/3D
- D ATEX II 1/2D, Alu blind cover
- E ATEX II 1/3D
- S FM IS Cl.I,II,III Div.1 Gr.A-G, Zone 0,1,2
- T FM XP Cl.I,II,III Div.1 Gr.A-G, Zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2
- V CSA XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2
- L TIIS EEx d (ia) IIC T3
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia)ia IIC T6
- Q NEPSI DIP
- Y Special version, TSP-no. to be spec.

Antenna:

- D Horn 80mm/3", increased near distance dynamics
- E Horn 100mm/4", increased near distance dynamics
- G Parabolic 200mm/8", increased near distance dynamics
- H Parabolic 250mm/10", increased near distance dynamics
- 9 Special version, TSP-no. to be spec.

Antenna Seal; Temperature:

- E FKM Viton GLT; -40...200oC/-40...392oF
- Y Special version, TSP-no. to be spec.

Antenna Extension:

- 1 Not selected
- 2 250mm
- 3 450mm
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GGJ Thread EN10226 R1-1/2, 316L
- GNJ Thread ANSI NPT1-1/2, 316L
- X3J UNI flange DN200/8"/200, 316L max PN1/14.5lbs/1K, suitable for DN200 PN10/16, 8" 150lbs, 10K 200
- X5J UNI flange DN250/10"/250, 316L max PN1/14.5lbs/1K, suitable for DN250 PN10/16,10" 150lbs, 10K 250
- XCJ Align. device., UNI 4"/DN100/100, 316L max 14.5lbs/PN1/1K, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- XEJ Align. device., UNI 8"/DN200/200, 316L max 14.5lbs/PN1/1K, suitable for 8" 150lbs / DN200 PN16 / 10K 200
- XFJ Align. device., UNI10"/DN250/250, 316L max 14.5lbs/PN1/1K, suitable for 10" 150lbs / DN250 PN16 / 10K 250
- CMJ DN80 PN10/16 B1, 316L Flange EN1092-1 (DIN2527 C)
- CQJ DN100 PN10/16 B1, 316L Flange EN1092-1 (DIN2527 C)
- ALJ 3" 150lbs RF, 316/316L Flange ANSI B16.5
- APJ 4" 150lbs RF, 316/316L Flange ANSI B16.5
- KLJ 10K 80A RF, 316L flange JIS B2220
- KPJ 10K 100A RF, 316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Output; Operating:

- A 4-20mA SIL HART; 4-line display VU331, envelope curve display on site
- B 4-20mA SIL HART; w/o display, via communication
- K 4-20mA SIL HART; prepared for FHX40, Remote display (accessory)
- C PROFIBUS PA; 4-line display VU331, envelope curve display on site
- D PROFIBUS PA; w/o display, via communication
- L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
- E FOUNDATION Fieldbus; 4-line display, envelope curve display on site
- F FOUNDATION Fieldbus; w/o display, via communication
- M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
- Y Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP65 NEMA4X
- B F23 316L IP65 NEMA4X
- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 9 Special version, TSP-no. to be spec.

Additional Option:

- K Air purge connection G1/4
- M Air purge connection NPT1/4
- P 5-point, Air purge connection G1/4 5-point linearity protocol, see additional spec.
- Q 5-point, Air purge connection NPT1/4 5-point linearity protocol, see additional spec.
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Micropilot M FMR240

Measurement: Level, Radar, contactless.
Horn antenna.
Application: liquids/
solids (antenna 100mm).
2-wire connection.
Open air test site authorization.
Incl. Setup/diagnostic software.
:: Application safety:
independent of pressure/temp./steam.
independent of gas layers.

FMR240-
52005348
SPK: FLC



Micropilot M FMR240

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 1 ATEX II 1/2G EEx ia IIC T6
- 6 ATEX II 1/2G EEx ia IIC T6, WHG
- 3 ATEX II 1/2G EEx em (ia) IIC T6
- 8 ATEX II 1/2G EEx em (ia) IIC T6, WHG
- 4 ATEX II 1/2G EEx d (ia) IIC T6
- B ATEX II 1/2G, II 1/2D, Alu blind cover, ATEX II 1/2G EEx ia IIC T6, ATEX II 1/2D
- G ATEX II 3G EEx nA II T6
- H ATEX II 1/2G EEx ia IIC T6, ATEX II 3D
- D IECEx zone 0/1, Ex ia IIC T6
- E IECEx zone 0/1, Ex d (ia) IIC T6
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- T FM XP Cl.I Div.1 Gr.A-D, zone 1,2
- N CSA General Purpose

- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- V CSA XP Cl.I Div.1 Gr.A-D, zone 1,2
- L TIIS EEx d (ia) IIC T4
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia)ia IIC T6
- R NEPSI Ex nAL IIC T6
- Y Special version, TSP-no. to be spec.

Antenna:

- 2 40mm/1-1/2"
- 3 50mm/2"
- 4 80mm/3"
- 5 100mm/4"
- E 40mm/1-1/2", gas-tight feed through
- F 50mm/2", gas-tight feed through
- G 80mm/3", gas-tight feed through
- H 100mm/4", gas-tight feed through
- 9 Special version, TSP-no. to be spec.

Antenna Seal; Temperature:

- V FKM Viton; -20...150oC/-4...302oF
- E FKM Viton GLT; -40...150oC/-40...302oF
- K Kalrez; -20...150oC/-4...302oF
- Y Special version, TSP-no. to be spec.

Antenna Extension:

- 1 Not selected
- 2 100mm/4"
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GGJ Thread EN10226 R1-1/2, 316L
- GNJ Thread ANSI NPT1-1/2, 316L
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TLJ Tri-Clamp ISO2852 DN70-76.1 (3"), 316L
- CFJ DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CGJ DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CFM DN50 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CGM DN50 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CMJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CNJ DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CMM DN80 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CNM DN80 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CQJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CRJ DN100 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CQM DN100 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CRM DN100 PN25/40, AlloyC22 >316L flange EN1092-1 (DIN2527)
- CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CWM DN150 PN10/16, AlloyC22 >316L flange EN1092-1 (DIN2527)
- AEJ 2" 150lbs RF, 316/316L flange ANSI B16.5
- AFJ 2" 300lbs RF, 316/316L flange ANSI B16.5
- AEM 2" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AFM 2" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- ALJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- AMJ 3" 300lbs RF, 316/316L flange ANSI B16.5
- ALM 3" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AMM 3" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- AQJ 4" 300lbs RF, 316/316L flange ANSI B16.5
- APM 4" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- AQM 4" 300lbs, AlloyC22 >316/316L flange ANSI B16.5
- AWJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- AWM 6" 150lbs, AlloyC22 >316/316L flange ANSI B16.5
- KEJ 10K 50A RF, 316L flange JIS B2220
- KEM 10K 50A, AlloyC22 >316L flange JIS B2220
- KLJ 10K 80A RF, 316L flange JIS B2220
- KLM 10K 80A, AlloyC22 >316L flange JIS B2220
- KPJ 10K 100A RF, 316L flange JIS B2220

- KPM 10K 100A, AlloyC22 >316L flange JIS B2220
- KWJ 10K 150A RF, 316L flange JIS B2220
- KWM 10K 150A, AlloyC22 >316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA SIL HART; 4-line display VU331, Envelope curve display on site
- B 4-20mA SIL HART; w/o display, via communication
- K 4-20mA SIL HART; prepared for FHX40, Remote display (accessory)
- C PROFIBUS PA; 4-line display VU331, Envelope curve display on site
- D PROFIBUS PA; w/o display, via communication
- L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
- E FOUNDATION Fieldbus; 4-line display, Envelope curve display on site
- F FOUNDATION Fieldbus; w/o display, via communication
- M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
- Y Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP65 NEMA4X
- B F23 316L IP65 NEMA4X
- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- F Advanced dynamics, max MB=70m liquids, MB=measuring range
- B EN10204-3.1 material, wetted parts, (316L wetted parts) inspection certificate
- N EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- G Advanced dynamics, 3.1, NACE, max MB=70m liquids, MB=measuring range EN10204-3.1material, NACE MR0175 (316L wetted parts) inspection certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, NACE, 5-point linearity protocol, see additional spec., EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- L 5-point, advanced dynamics, 3.1, NACE, 5-point linearity protocol, see additional spec., Advanced dynamics, max MB=70m liquids, MB=measuring range EN10204-3.1 material, NACE MR0175, (316L wetted parts) inspection certificate
- S GL/ABS/NK marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Micropilot M FMR230

Measurement: Level, Radar, contactless.
Horn antenna.
Application: liquids.
2-wire connection.
Pressure/gastight process separation.
Open air test site authorization.
Incl. Setup-/diagnostic software.
:: Application safety:
independent of pressure/temp./steam.
:: High availability:
independent of gas layers.

**FMR230-
52005679**

SPK: FLC



Micropilot M FMR230

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 1 ATEX II 1/2G EEx ia IIC T6, IECEx zone 0/1
- 2 ATEX II 1/2G EEx ia IIC T6, XA, IECEx zone 0/1 Note safety instruction (XA) (electrostatic charging)!

- 6 ATEX II 1/2G EEx ia IIC T6, WHG, IECEx zone 0/1
- 7 ATEX II 1/2G EEx ia IIC T6, WHG, XA, IECEx zone 0/1 Note safety instruction (XA) (electrostatic charging)!

- 3 ATEX II 1/2G EEx em (ia) IIC T6
- 8 ATEX II 1/2G EEx em (ia) IIC T6, WHG
- 4 ATEX II 1/2G EEx d (ia) IIC T6, IECEx Zone 0/1
- G ATEX II 3G EEx nA II T6
- H ATEX II 1/2G EEx ia IIC T6, ATEX II 3D
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- T FM XP Cl.I Div.1 Gr.A-D, zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- V CSA XP Cl.I Div.1 Gr.A-D, zone 1,2
- L TIIS EEx d (ia) IIC T4
- M TIIS EEx d (ia) IIC T1
 - I NEPSI Ex ia IIC T6
 - J NEPSI Ex d(ia)ia IIC T6
 - R NEPSI Ex nAL IIC T6
- Y Special version, TSP-no. to be spec.

Antenna:

- 1 w/o horn, for pipe installation
- 2 80mm/3"
- 3 100mm/4"
- 4 150mm/6"
- 5 200mm/8"
- 6 250mm/10"
- 9 Special version, TSP-no. to be spec.

Antenna Seal; Temperature:

- V FKM Viton; -40...200oC/-40...392oF, conductive media max 150oC/302oF
- E EPDM; -40...150oC/-40...302oF
- K Kalrez; -20...200oC/-4...392oF, conductive media max 150oC/302oF
- L Graphite; -60...280oC/-76...536oF
- M Graphite; -60...400oC/-76...752oF
- Y Special version, TSP-no. to be spec.

Process Connection:

- CMJ DN80 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- CNJ DN80 PN40 B1, 316L flange EN1092-1 (DIN2527 C)
- CQJ DN100 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- CQ5 DN100 PN10/16, AlloyC4 >316Ti flange EN1092-1 (DIN2527)
- CRJ DN100 PN40 B1, 316L flange EN1092-1 (DIN2527 C)
- CWJ DN150 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- CW5 DN150 PN10/16, AlloyC4 >316Ti flange EN1092-1 (DIN2527)
- EWT DN150 PN16, enamel >steel flange EN1092-1 (DIN2527)
- CXJ DN200 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- EXT DN200 PN16, enamel >steel flange EN1092-1 (DIN2527)
- C6J DN250 PN16 B1, 316L flange EN1092-1 (DIN2527 C)
- C65 DN250 PN16, AlloyC4 >316Ti flange EN1092-1 (DIN2527)
- ALJ 3" 150lbs RF, 316/316L flange ANSI B16.5
- AMJ 3" 300lbs RF, 316/316L flange ANSI B16.5
- APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
- AQJ 4" 300lbs RF, 316/316L flange ANSI B16.5
- AVJ 6" 150lbs RF, 316/316L flange ANSI B16.5
- AV5 6" 150lbs, AlloyC4 >316Ti flange ANSI B16.5
- AVT 6" 150lbs, enamel >steel flange ANSI B16.5
- A3J 8" 150lbs RF, 316/316L flange ANSI B16.5
- A35 8" 150lbs, AlloyC4 >316Ti flange ANSI B16.5
- A3T 8" 150lbs, enamel >steel flange ANSI B16.5
- A5J 10" 150lbs RF, 316/316L flange ANSI B16.5

- A55 10" 150lbs, AlloyC4 >316Ti flange ANSI B16.5
- KA2 10K 80A RF, 316Ti flange JIS B2220
- KH2 10K 100A RF, 316Ti flange JIS B2220
- KV2 10K 150A RF, 316Ti flange JIS B2220
- KD2 10K 200A RF, 316Ti flange JIS B2220
- K52 10K 250A RF, 316Ti flange JIS B2220
- TL2 Tri-Clamp ISO2852 DN70-76.1 (3"), 316Ti
- YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA SIL HART; 4-line display VU331, Envelope curve display on site
- B 4-20mA SIL HART; w/o display, via communication
- K 4-20mA SIL HART; prepared for FHX40, Remote display (accessory)
- C PROFIBUS PA; 4-line display VU331, Envelope curve display on site
- D PROFIBUS PA; w/o display, via communication
- L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
- E FOUNDATION Fieldbus; 4-line display, Envelope curve display on site
- F FOUNDATION Fieldbus; w/o display, via communication
- M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
- Y Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP65 NEMA4x
- B F23 316L IP65 NEMA4X
- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B EN10204-3.1 material, wetted parts, (316L wetted parts) inspection certificate
- N EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, NACE, 5-point linearity protocol, see additional spec., EN10204-3.1 material, NACE MR0175, (316L wetted parts) inspection certificate
- S GL/ABS/NK marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Micropilot M FMR244

Measurement: Level, Radar, contactless.
Horn antenna, Plastics.
Application: liquids (antenna 40mm),
liquids/solids (antenna 80mm).
2-wire connection.
Open air test site authorization.
Incl. Setup/diagnostic software.
:: Application safety:
independent of pressure/temp./steam.
independent of gas layers.

Micropilot M FMR244

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG

FMR244-
52012006
SPK: FLC



- 2 ATEX II 1/2G EEx ia IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- 7 ATEX II 1/2G EEx ia IIC T6, WHG, XA Note safety instruction (XA) (electrostatic charging)!
- 5 ATEX II 1/2G EEx d (ia) IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- G ATEX II 3G EEx nA II T6
- H ATEX II 1/2G EEx ia IIC T6, ATEX II 3D, XA Note safety instruction (XA) (electrostatic charging)!

- B ATEX II 1/2D, Alu blind cover, XA
- C ATEX II 1/3D, XA
- D IECEx zone 0/1, Ex ia IIC T6, XA, Note safety instruction (XA) (electrostatic charging)!
- E IECEx zone 0/1, Ex d (ia) IIC T6, XA, Note safety instruction (XA) (electrostatic charging)!

- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- T FM XP Cl.I Div.1 Gr.A-D, zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- V CSA XP Cl.I Div.1 Gr.A-D, zone 1,2
- L TIIS EEx d (ia) IIC T4
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia)ia IIC T6
- R NEPSI Ex nAL IIC T6
- Y Special version, TSP-no. to be spec.

Antenna:

- 2 40mm/1-1/2", PTFE encapsulated
- 4 80mm/3", PP cladded
- 9 Special version, TSP-no. to be spec.

Antenna Seal; Temperature:

- V FKM Viton GLT; -40...130oC/-40...266oF
- S Silicone; -40...80oC
- Y Special version, TSP-no. to be spec.

Process Connection:

- GGS Thread ISO228 G1-1/2, PVDF
- GNS Thread ANSI NPT1-1/2, PVDF
- XVG UNI slip on flange 3"/DN80/80, PP max 4bar abs/58psia, suitable for 3" 150lbs / DN80 PN16 / 10K 80
- XXG UNI slip on flange 4"/DN100/100, PP max 4bar abs/58psia, suitable for 4" 150lbs / DN100 PN16 / 10K 100
- X1G UNI slip on flange 6"/DN150/150, PP max 4bar abs/58psia, suitable for 6" 150lbs / DN150 PN16 / 10K 150
- XRX W/o slip on flange/mounting bracket customer side connection
- XME Mounting bracket, 304
- YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA SIL HART; 4-line display VU331, Envelope curve display on site
- B 4-20mA SIL HART; w/o display, via communication
- K 4-20mA SIL HART; prepared for FHX40, Remote display (accessory)
- C PROFIBUS PA; 4-line display VU331, Envelope curve display on site
- D PROFIBUS PA; w/o display, via communication
- L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
- E FOUNDATION Fieldbus; 4-line display, Envelope curve display on site
- F FOUNDATION Fieldbus; w/o display, via communication
- M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
- Y Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP65 NEMA4X
- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2

- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- F Advanced dynamics, max MB=70m liquids, max MB=15m solids, MB=measuring range
- H 5-point linearity protocol, see additional spec.
- L 5-point, advanced dynamics, 5-point linearity protocol, see additional spec., Advanced dynamics, max MB=70m liquids, max MB=15m solids, MB=measuring range
- S GL/ABS/NK marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Micropilot M FMR231

Measurement: Level, Radar, contactless.
Rod antenna.
Application: liquids.
2-wire connection.
Open air test site authorization.
Incl. Setup-/diagnostic software.
:: Application safety:
independent of pressure/temp./steam.
independent of gas layers.

FMR231-
52005680
SPK: FLC



Micropilot M FMR231

Approval:

- A Non-hazardous area
 - F Non-hazardous area, WHG
 - 1 ATEX II 1/2G EEx ia IIC T6, IECEx zone 0/1
 - 2 ATEX II 1/2G EEx ia IIC T6, XA, IECEx zone 0/1 Note safety instruction (XA) (electrostatic charging)!
 - 6 ATEX II 1/2G EEx ia IIC T6, WHG, IECEx zone 0/1
 - 7 ATEX II 1/2G EEx ia IIC T6, WHG, XA, IECEx zone 0/1 Note safety instruction (XA) (electrostatic charging)!
 - 3 ATEX II 1/2G EEx em (ia) IIC T6
 - 8 ATEX II 1/2G EEx em (ia) IIC T6, WHG
 - 4 ATEX II 1/2G EEx d (ia) IIC T6, IECEx zone 0/1
 - 5 ATEX II 1/2G EEx d (ia) IIC T6, XA, IECEx zone 0/1 Note safety instruction (XA) (electrostatic charging)!
 - G ATEX II 3G EEx nA II T6, XA fully insulated antenna: Note safety instruction (XA) (electrostatic charging)!
 - H ATEX II 1/2G EEx ia IIC T6, ATEX II 3D, XA fully insulated antenna: Note safety instruction (XA) (electrostatic charging)!
 - S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
 - T FM XP Cl.I Div.1 Gr.A-D, zone 1,2
 - N CSA General Purpose
 - U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
 - V CSA XP Cl.I Div.1 Gr.A-D, zone 1,2
 - L TIIS EEx d (ia) IIC T4
 - I NEPSI Ex ia IIC T6
 - J NEPSI Ex d(ia)ia IIC T6
 - R NEPSI Ex nAL IIC T6
 - Y Special version, TSP-no. to be spec.
- Antenna; Inactive Length:**
- A PPS antistatic 360mm/14"; Viton, 316L; Nozzle height max 100mm/4"
 - B PPS antistatic 510mm/20", Viton, 316L; Nozzle height max 250mm/10"
 - E PTFE 390mm/15", fully insulated; Nozzle height max 100mm/4"
 - F PTFE 540mm/21" fully insulated; Nozzle height max 250mm/10"
 - H PTFE antistatic 390mm/15", fully insul.; Nozzle height max 100mm/4"
 - J PTFE antistatic 540mm/21", fully insul.; Nozzle height max 250mm/10"
 - Y Special version, TSP-no. to be spec.

Process Connection:

GGJ Thread EN10226 R1-1/2, 316L
 GGS Thread EN10226 R1-1/2, PVDF
 GNJ Thread ANSI NPT1-1/2, 316L
 GNS Thread ANSI NPT1-1/2, PVDF
 TEJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
 TLJ Tri-Clamp ISO2852 DN70-76.1 (3"), 316L
 MFJ DIN11851 DN50 PN40 slotted-nut, 316L
 HFJ DIN11864-1 A DN50 tube DIN11850, slotted-nut, 316L
 BFJ DN50 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CFJ DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 CFK DN50 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 BMJ DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CMJ DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BNJ DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CNJ DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 CMK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 BQJ DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CQJ DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 CQK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
 BWJ DN150 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CWJ DN150 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 CWK DN150 PN10/16, PTFE(black) >316L flange EN1092-1 (DIN2527) PTFE(black) = conductive cladding

AEJ 2" 150lbs RF, 316/316L flange ANSI B16.5
 AEK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
 ALJ 3" 150lbs RF, 316/316L flange ANSI B16.5
 AMJ 3" 300lbs RF, 316/316L flange ANSI B16.5
 ALK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
 APJ 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQJ 4" 300lbs RF, 316/316L flange ANSI B16.5
 APK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
 AVJ 6" 150lbs RF, 316/316L flange ANSI B16.5
 AVK 6" 150lbs, PTFE(black) >316/316L flange ANSI B16.5 PTFE(black) = conductive cladding

KEJ 10K 50A RF, 316L flange JIS B2220
 KEK 10K 50A, PTFE >316L flange JIS B2220
 KLJ 10K 80A RF, 316L flange JIS B2220
 KLK 10K 80A, PTFE >316L flange JIS B2220
 KPJ 10K 100A RF, 316L flange JIS B2220
 KPK 10K 100A, PTFE >316L flange JIS B2220
 KVJ 10K 150A RF, 316L flange JIS B2220
 KVK 10K 150A, PTFE(black) >316L flange JIS B2220 PTFE(black) = conductive cladding
 YY9 Special version, TSP-no. to be spec.

Output; Operation:

A 4-20mA SIL HART; 4-line display VU331, Envelope curve display on site
 B 4-20mA SIL HART; w/o display, via communication
 K 4-20mA SIL HART; Prepared for FHX40, Remote display (accessory)
 C PROFIBUS PA; 4-line display VU331, Envelope curve display on site
 D PROFIBUS PA; w/o display, via communication
 L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
 E FOUNDATION Fieldbus; 4-line display, Envelope curve display on site
 F FOUNDATION Fieldbus; w/o display, via communication
 M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
 Y Special version, TSP-no. to be spec.

Housing:

A F12 Alu, coated IP65 NEMA4X
 B F23 316L IP65 NEMA4X
 C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
 D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection

Y Special version, TSP-no. to be spec.

Cable Entry:

2 Gland M20 (EEx d > thread M20)

- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Gas-Tight Feed Through:

- A Not selected
- C Selected

Additional Option:

- A Basic version
- B EN10204-3.1 material, wetted parts, (316L wetted parts) inspection certificate
- C EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- H 5-point linearity protocol, see additional spec.
- J 5-point, 3.1, wetted parts 5-point linearity protocol, see additional spec., EN10204-3.1 material, wetted parts, (316L wetted parts) inspection certificate
- K 5-point, 3.1, pressurized, 5-point linearity protocol, see additional spec., EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- S GL/ABS/NK marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
- 2 Bus address, see additional spec.

Micropilot M FMR245

Measurement: Level, Radar contactless.
Horn antenna, PTFE cladde,
flush mounted.
Application: liquids.
2-wire loop power.
Open air test site authorization.
Incl. Setup-/diagnostic software.
:: Application safety:
high chemical compatibility,
independent of pressure/temp./steam.
independent of gas layers.

FMR245-
52012007
SPK: FLC



Micropilot M FMR245

Approval:

- A Non-hazardous area
- F Non-hazardous area, WHG
- 2 ATEX II 1/2G EEx ia IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- 7 ATEX II 1/2G EEx ia IIC T6, WHG, XA Note safety instruction (XA) (electrostatic charging)!
- 5 ATEX II 1/2G EEx d (ia) IIC T6, XA Note safety instruction (XA) (electrostatic charging)!
- G ATEX II 3G EEx nA II T6, XA, Note safety instruction (XA) (electrostatic charging)!
- H ATEX II 1/2G EEx ia IIC T6, ATEX II 3D, XA Note safety instruction (XA) (electrostatic charging)!
- B ATEX II 1/2G, 1/2D, Alu blind cover, XA ATEX II 1/2G EEx ia IIC T6, ATEX II 1/2D Note safety instruction (XA) (electrostatic charging)!
- D IECEx zone 0/1, Ex ia IIC T6, XA, Note safety instruction (XA) (electrostatic charging)!
- E IECEx zone 0/1, Ex d (ia) IIC T6, XA, Note safety instruction (XA) (electrostatic charging)!
- S FM IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- T FM XP Cl.I Div.1 Gr.A-D, zone 1,2
- N CSA General Purpose
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0,1,2
- V CSA XP Cl.I Div.1 Gr.A-D, zone 1,2
- L TIIS EEx d (ia) IIC T4
- I NEPSI Ex ia IIC T6
- J NEPSI Ex d(ia)ia IIC T6
- R NEPSI Ex nAL IIC T6
- Y Special version, TSP-no. to be spec.

Antenna:

- B 50mm/2", -40...200oC/-40...392oF
- C 80mm/3", -40...200oC/-40...392oF
- F 50mm/2", -40...200oC/-40...392oF, gas- tight feed through
- G 80mm/3", -40...200oC/-40...392oF, gas- tight feed through
- 9 Special version, TSP-no. to be spec.

Process Connection:

- CFK DN50 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- CMK DN80 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- CQK DN100 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- CKW DN150 PN10/16, PTFE >316L flange EN1092-1 (DIN2527)
- AEK 2" 150lbs, PTFE >316/316L flange ANSI B16.5
- ALK 3" 150lbs, PTFE >316/316L flange ANSI B16.5
- APK 4" 150lbs, PTFE >316/316L flange ANSI B16.5
- AVK 6" 150lbs, PTFE >316/316L flange ANSI B16.5
- KEK 10K 50A, PTFE >316L flange JIS B2220
- KLK 10K 80A, PTFE >316L flange JIS B2220
- KPK 10K 100A, PTFE >316L flange JIS B2220
- KVK 10K 150A, PTFE >316L flange JIS B2220
- TDK Tri-Clamp ISO2852 DN51 (2"), PTFE >316L, 3A
- TFK Tri-Clamp ISO2852 DN76.1 (3"),PTFE>316L, 3A
- THK Tri-Clamp ISO2852 DN101.6(4"),PTFE>316L, 3A
- MRK DIN11851 DN50 PN25 slotted-nut,PTFE>316L
- MTK DIN11851 DN80 PN25 slotted-nut,PTFE>316L
- YY9 Special version, TSP-no. to be spec.

Output; Operation:

- A 4-20mA SIL HART;4-line display VU331, Envelope curve display on site
- B 4-20mA SIL HART; w/o display, via communication
- K 4-20mA SIL HART; Prepared for FHX40, Remote display (accessory)
- C PROFIBUS PA; 4-line display VU331, Envelope curve display on site
- D PROFIBUS PA; w/o display, via communication
- L PROFIBUS PA; prepared for FHX40, Remote display (accessory)
- E FOUNDATION Fieldbus; 4-line display, Envelope curve display on site
- F FOUNDATION Fieldbus; w/o display, via communication
- M FOUNDATION Fieldbus; prepared for FHX40, Remote display (accessory)
- Y Special version, TSP-no. to be spec.

Housing:

- A F12 Alu, coated IP65 NEMA4X
- B F23 316L IP65 NEMA4X
- C T12 Alu, coated IP65 NEMA4X, separate conn. compartment
- D T12 Alu, coated IP65 NEMA4X + OVP, separate conn. compartment, OVP = overvoltage protection
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (EEx d > thread M20)
- 3 Thread G1/2
- 4 Thread NPT1/2
- 5 Plug M12
- 6 Plug 7/8"
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- F Advanced dynamics, max MB=70m liquids, MB=measuring range
- C EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- G Advanced dynamics, 3.1, max MB=70m liquids, MB=measuring range EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- H 5-point linearity protocol, see additional spec.
- K 5-point, 3.1, pressurized, 5-point linearity protocol, see additional spec., EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- L 5-point, advanced dynamics, 3.1, 5-point linearity protocol, see additional spec., Advanced dynamics, 3.1 material, max MB=70m liquids, MB=measuring range EN10204-3.1 material, pressurized, (316/316L pressurized) inspection certificate
- S GL/ABS/NK marine certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.
 - 2 Bus address, see additional spec.
-

Seal, adjustable, DN80 PN10-40

3" 150lbs / JIS DN80 10K, EPDM.
Usage: FMR244.

71074263

SPK: FLS

Seal, adjustable, DN80 PN10-40

Seal, adjustable, DN150 PN10-16

6" 150lbs / JIS DN150 10K, EPDM.
Usage: FMR244.

71074265

SPK: FLS

Seal, adjustable, DN150 PN10-16

Seal, adjustable, DN100 PN10-16

4" 150lbs / JIS DN100 10K, EPDM.
Usage: FMR244.

71074264

SPK: FLS

Seal, adjustable, DN100 PN10-16

Mounting bracket FMR244

Material: 304.
Usage: Alignment FMR244.

71091643

SPK: FLS

Mounting bracket FMR244

Antenna-Extension FAR10

Usage: FMR230.
For retrofitable extension of horn
antenna from flange.
:: Thermal decoupling, avoids condensat.
:: Mounting support w. high tank nozzle.

FAR10-
942223-9000

SPK: FLS



Antenna-Extension FAR10

Material:

- 6 316L
- 7 316L+ EN10204-3.1 material, NACE MR0175 (316L wetted parts) inspection certificate

- 5 AlloyC4
- 4 AlloyB2
- 9 Special version, TSP-no. to be spec.

Extension:

- A 100 mm / 4"
- B 200 mm / 8"
- C 300 mm / 12"
- D 400 mm / 16"
- Y Special version, TSP-no. to be spec.

Horn protection, 80mm(3") horn

PTFE disc + mounting ring.
Non Ex.
Usage: Micropilot M.

71105890

SPK: FLS

Horn protection, 80mm(3") horn

Protective cover for housing T12/F12, SS

Usage: Micropilot M, Micropilot S,
Prosonic M, Levelflex M.
Material: 316Ti.

543199-0001

SPK: FLS

Protective cover for housing T12/F12, SS

Horn protection, 100mm(4") horn

PTFE disc + mounting ring.
Non Ex.
Usage: Micropilot M.

71105889

SPK: FLS

Horn protection, 100mm(4") horn

Soliwave M FQR50, Emitter

Point level switch, bulk solids.
Microwave barrier, 24GHz.
Solid independent.
:: High reliability.
:: No wear + tear.
:: Mounting without opening in wall.
:: Adjustable sensibility.

FQR50-
52017473

SPK: FMA



Soliwave M FQR50, Emitter

Approval:

- C ATEX II 1/2G Ex ia IIC T4, ATEX II 1/2D Ex iaD 20/21 IP66 T98oC
- D IECEx Zone 0/1 Ex ia IIC T4, IECEx Ex iaD 20/21 IP66 T98oC
- Y Special version, TSP-no. to be spec.

Distance Emitter-Receiver:

- 1 max 8m
- 2 max 20m
- 9 Special version, TSP-no. to be spec.

Process Connection:

- G Thread EN10226 R1-1/2, Aluminium
- N Thread ANSI NPT1-1/2, Aluminium
- R Thread EN10226 R1-1/2, Stainl. steel
- S Thread ANSI NPT1-1/2, Stainl. steel
- Y Special version, TSP-no. to be spec.

Housing; Cable Entry:

- D F18 Alu IP66; gland M20
- F F18 Alu IP66; thread NPT1/2
- G Stainl. steel IP66; gland M20
- H Stainl. steel IP66; thread NPT1/2
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

Soliwave M FDR50, Receiver

Point level switch, bulk solids.
Microwave barrier, 24GHz.
Solid independent.
:: High reliability.
:: No wear + tear.
:: Mounting without opening in wall.
:: Adjustable sensibility.

FDR50-
52017474

SPK: FMB



Soliwave M FDR50, Receiver

Approval:

- C ATEX II 1/2G Ex ia IIC T4, ATEX II 1/2D Ex iaD 20/21 IP66 T98oC
- D IECEx Zone 0/1 Ex ia IIC T4, IECEx Ex iaD 20/21 IP66 T98oC
- Y Special version, TSP-no. to be spec.

Distance Emitter-Receiver:

- 1 max 8m
- 2 max 20m
- 9 Special version, TSP-no. to be spec.

Process Connection:

- G Thread EN10226 R1-1/2, Aluminium
- N Thread ANSI NPT1-1/2, Aluminium
- R Thread EN10226 R1-1/2, Stainl. steel

- S Thread ANSI NPT1-1/2, Stainl. steel
- Y Special version, TSP-no. to be spec.

Housing; Cable Entry:

- D F18 Alu IP66; gland M20
- F F18 Alu IP66; thread NPT1/2
- G Stainl. steel IP66; gland M20
- H Stainl. steel IP66; thread NPT1/2
- Y Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

Soliwave FDR56

Measurement: Point level.
Microwave barrier, 24,15GHz.
Application: solids.
Compact version.
Distance Emitter-Receiver: max 100m.
Solid independent.
Adjustable sensibility.
:: High reliability.
:: No wear + tear.
:: Mounting contactless/flush mounted.

FDR56-
71114654

SPK: FMB



Soliwave FDR56

Approval:

- AA Non-hazardous area
- BA ATEX II 1/2D Ex ta/tb IIIC T102oC Da/DB IP66, II 2D Ex tb IIIC T102oC Db IP66
- 99 Special version, TSP-no. to be spec.

Output:

- 1 Relay SPDT
- 2 4-20mA
- 3 Solid State Relay
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC 50/60Hz
- E 20-60VDC, 20-30VAC 50/60Hz
- Y Special version, TSP-no. to be spec.

Housing:

- A F16 Polyester, IP66
- B F15 Stainless Steel Hygiene, IP66
- C F15 Stainless Steel Hygiene, IP66 + window
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20
- D Thread NPT1/2
- Y Special version, TSP-no. to be spec.

Process Connection:

- XFA Thread EN10226 R1-1/2, Alu
- VEA Thread ANSI NPT1-1/2, Alu
- XF2 Thread EN10226 R1-1/2, 316Ti
- VE2 Thread ANSI NPT1-1/2, 316Ti
- YYY Special version, TSP-no. to be spec.

Window Transmission:

- 1 PTFE
- 2 Ceramic
- 9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Soliwave FQR56

Measurement: Point level.
Microwave barrier, 24,15GHz.
Application: solids.
Compact version.
Distance Emitter-Receiver: max 100m.
Solid independent.
Adjustable sensibility.
:: High reliability.
:: No wear + tear.
:: Mounting contactless/flush mounted.

FQR56-
71114653

SPK: FMB



Soliwave FQR56

Approval:

- 99 Special version, TSP-no. to be spec.
- AA Non-hazardous area
- BA ATEX II 1/2D Ex ta/tb IIIC T102oC Da/DB IP66, II 2D Ex tb IIIC T102oC Db IP66

Power Supply:

- A 85-253VAC 50/60Hz
- E 20-60VDC, 20-30VAC 50/60Hz
- Y Special version, TSP-no. to be spec.

Housing:

- A F16 Polyester, IP66
- B F15 Stainless Steel Hygiene, IP66
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20
- D Thread NPT1/2
- Y Special version, TSP-no. to be spec.

Process Connection:

- XFA Thread EN10226 R1-1/2, Alu
- VEA Thread ANSI NPT1-1/2, Alu
- XF2 Thread EN10226 R1-1/2, 316Ti
- VE2 Thread ANSI NPT1-1/2, 316Ti
- YYY Special version, TSP-no. to be spec.

Window Transmission:

- 1 PTFE
- 2 Ceramic
- 9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Solimotion FTR20

Measurement: flow monitoring.
Microwave 24,15GHz.
Application: solids.
Compact version.
Detection range max. 5m.
Solid independent.
Adjustable sensibility.
:: No wear + tear.
:: Mounting contactless/flush mounted.

FTR20-
71115052

SPK: FMM



Solimotion FTR20

Approval:

- AA Non-hazardous area
- 99 Special version, TSP-no. to be spec.

Output:

- 1 Relay SPDT
- 2 4-20mA
- 3 Solid State Relay
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC 50/60Hz
- E 20-60VDC, 20-30VAC 50/60Hz
- Y Special version, TSP-no. to be spec.

Housing:

- A F16 Polyester, IP66
- B F15 Stainless Steel Hygiene, IP66
- C F15 Stainless Steel Hygiene, IP66 + window
- Y Special version, TSP-no. to be spec.

Electrical Connection:

- A Gland M20
- D Thread NPT1/2
- Y Special version, TSP-no. to be spec.

Process Connection:

- XFA Thread EN10226 R1-1/2, Alu
- XF2 Thread EN10226 R1-1/2, 316Ti
- VEA Thread ANSI NPT1-1/2, Alu
- VE2 Thread ANSI NPT1-1/2, 316Ti
- YYY Special version, TSP-no. to be spec.

Window Transmission:

- 1 PTFE
- 2 Ceramic
- 9 Special version, TSP-no. to be spec.

>>Marking:

- Z1 Tagging (TAG), see additional spec.

Nivotester FTR325

Level instrument, point level.
Min/max fail-safe, selectable.
Switch delay 0,5-20s.
Input: 1-channel.
Output: Relay, potential-free contacts.

FTR325-
52017475
SPK: FMN



Nivotester FTR325

Approval:

- B ATEX II (1)G (Ex ia) IIC, ATEX II (1)D (Ex iaD)
- D IECEx (zone 0) (Ex ia) IIC, IECEx (Ex iaD)
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Rail mounting, 45mm
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC 50/60Hz
- E 20-60VDC, 20-30VAC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm/ level
- 9 Special version, TSP-no. to be spec.

Extension 525mm, HT-adapter NPT1-1/2

Usage: HT-Adapter NPT1-1/2, FQR50/56,
FDR50/56, FTR20.

71113455

SPK: FMS

Extension 525mm, HT-adapter NPT1-1/2

Flange 1-1/2" 150lbs,NPT1-1/2,316Ti,3.1

ANSI B16.5.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108387

SPK: FMS

Flange 1-1/2" 150lbs,NPT1-1/2,316Ti,3.1

Flange 3" 150lbs, FF,NPT1-1/2, 316Ti,3.1

ANSI B16.5.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71123295

SPK: FMS

Flange 3" 150lbs, FF,NPT1-1/2, 316Ti,3.1

Flange DN40 PN16, Rp1-1/2, 316Ti, 3.1

EN1092-1,A.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108383

SPK: FMS

Flange DN40 PN16, Rp1-1/2, 316Ti, 3.1

Extension 325mm, HT-adapter NPT1-1/2

Usage: HT-Adapter NPT1-1/2, FQR50/56,
FDR50/56, FTR20.

71113454

SPK: FMS

Extension 325mm, HT-adapter NPT1-1/2

Flange DN50 PN16, Rp1-1/2, 316Ti, 3.1

EN1092-1,A.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108388

SPK: FMS

Flange DN50 PN16, Rp1-1/2, 316Ti, 3.1

Extension 225mm, HT-Adapter NPT1-1/2

Usage: HT-Adapter NPT1-1/2, FQR50/56,
FDR50/56, FTR20.

71113453

SPK: FMS

Extension 225mm, HT-Adapter NPT1-1/2

Mounting bracket FQR5x/FDR5x, Plastics

Usage: Mounting FQR50/56, FDR50/56,
FTR20.

52017502

SPK: FMS

Mounting bracket FQR5x/FDR5x, Plastics

HT-adapter NPT1-1/2, 316Ti

Usage: FQR50/56, FDR50/56, FTR20.

71113449

SPK: FMS

HT-adapter NPT1-1/2, 316Ti

Mounting bracket FQR5x/FDR5x, Aluminium

Usage: Mounting FQR50/56, FDR50/56,
FTR20.

52017501

SPK: FMS

Mounting bracket FQR5x/FDR5x, Aluminium

Extension 325mm, HT-adapter R1-1/2 +

Usage: HT-Adapter R1-1/2 + Rp1-1/2,
FQR50/56, FDR50/56, FTR20.

71113451

SPK: FMS

Extension 325mm, HT-adapter R1-1/2 +

Flange 2" 150lbs, NPT1-1/2, 316Ti, 3.1

ANSI B16.5.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108389

SPK: FMS

Flange 2" 150lbs, NPT1-1/2, 316Ti, 3.1

Flange DN100 PN16, Rp1-1/2, 316Ti, 3.1

EN1092-1,A.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108390

SPK: FMS

Flange DN100 PN16, Rp1-1/2, 316Ti, 3.1

Flange 4" 150lbs, NPT1-1/2, 316Ti, 3.1

ANSI B16.5.
Inspection cert. EN10204-3.1 material
(316Ti wetted parts).
Usage: FQR50/56, FDR50/56, FTR20.

71108391

SPK: FMS

Flange 4" 150lbs, NPT1-1/2, 316Ti, 3.1

Extension 525mm, HT-adapter R1-1/2 +

Usage: HT-Adapter R1-1/2 + Rp1-1/2,
FQR50/56, FDR50/56, FTR20.

71113452

SPK: FMS

Extension 525mm, HT-adapter R1-1/2 +

HT-adapter R1-1/2 + Rp1-1/2, 316Ti

Usage: FQR50/56, FDR50/56, FTR20.

71113441

SPK: FMS

HT-adapter R1-1/2 + Rp1-1/2, 316Ti

Welded fitting DN100, 10bar, 200oC

Screw assembling.

Material: 316Ti/321, Silicone.

Usage: FQR50/56, FDR50/56, FTR20.

71026448

SPK: FMS

Welded fitting DN100, 10bar, 200oC

Flange DN40 PN16, Rp1-1/2, 316Ti

EN1092-1, A.

Usage: FQR50/56, FDR50/56, FTR20.

71006348

SPK: FMS

Flange DN40 PN16, Rp1-1/2, 316Ti

Flange 1-1/2" 150lbs, NPT1-1/2, Alu

Hole circle: 98,6mm.

Usage: FQR50/56, FDR50/56, FTR20.

Compatible with QR30/DR30 mount. flange.

71006346

SPK: FMS

Flange 1-1/2" 150lbs, NPT1-1/2, Alu

Flange DN40 PN6, Rp1-1/2, Alu

Hole circle: 100mm.

Usage: FQR50/56, FDR50/56, FTR20.

Compatible with QR30/DR30 mount. flange.

71006345

SPK: FMS

Flange DN40 PN6, Rp1-1/2, Alu

Welded fitting DN80, 10bar, 200oC

Screw assembling.

Material: 316Ti/321, Silicone.

Usage: FQR50/56, FDR50/56, FTR20.

71026447

SPK: FMS

Welded fitting DN80, 10bar, 200oC

Flange DN50 PN16, Rp1-1/2, 316Ti

EN1092-1, A.

Usage: FQR50/56, FDR50/56, FTR20.

71006350

SPK: FMS

Flange DN50 PN16, Rp1-1/2, 316Ti

Extension 225mm, HT-adapter R1-1/2 +Usage: HT-Adapter R1-1/2 + Rp1-1/2,
FQR50/56, FDR50/56, FTR20.**71113450**

SPK: FMS

Extension 225mm, HT-adapter R1-1/2 +

Threaded fitting DN50, 6bar, 200oC

Screw assembling, grooved union nut.
Material: 304, Silicone, C4400.
Usage: FQR50/56, FDR50/56, FTR20.

71026440

SPK: FMS

Threaded fitting DN50, 6bar, 200oC

Flange 2" 150lbs, NPT1-1/2, 316Ti

ANSI B16.5.
Usage: FQR50/56, FDR50/56, FTR20.

71006351

SPK: FMS

Flange 2" 150lbs, NPT1-1/2, 316Ti

Flange DN100 PN16, Rp1-1/2, 316Ti

EN1092-1, A.
Usage: FQR50/56, FDR50/56, FTR20.

71006352

SPK: FMS

Flange DN100 PN16, Rp1-1/2, 316Ti

Flange 4" 150lbs, NPT1-1/2, 316Ti

ANSI B16.5.
Usage: FQR50/56, FDR50/56, FTR20.

71006353

SPK: FMS

Flange 4" 150lbs, NPT1-1/2, 316Ti

Flange 3" 150lbs, FF, NPT1-1/2, 316Ti

ANSI B16.5.

Verwendung: FQR50/56, FDR50/56, FTR20.

71123296

SPK: FMS

Flange 3" 150lbs, FF, NPT1-1/2, 316Ti

Flange 1-1/2" 150lbs, NPT1-1/2, 316Ti

ANSI B16.5.

Usage: FQR50/56, FDR50/56, FTR20.

71006349

SPK: FMS

Flange 1-1/2" 150lbs, NPT1-1/2, 316Ti

Welded fitting DN50, 10bar, 200oC

Screw assembling.

Material: 316Ti/321, Silicone.

Usage: FQR50/56, FDR50/56, FTR20.

71026446

SPK: FMS

Welded fitting DN50, 10bar, 200oC

Welded fitting DN80, 200oC

Screw assembling.

Material: 316Ti, Silicone.

Usage: FQR50/56, FDR50/56, FTR20.

71026444

SPK: FMS

Welded fitting DN80, 200oC

Threaded fitting DN80, 6bar, 200oC

Screw assembling, grooved union nut.

Material: 304, Silicone, C4400.

Usage: FQR50/56, FDR50/56, FTR20.

71026441

SPK: FMS

Threaded fitting DN80, 6bar, 200oC

Flanged fitting DIN/EN DN80, 25bar,200oC

Screw assembling on counter flange
Material: 316Ti, PTFE, C4400
Usage: FQR50/56, FDR50/56, FTR20.

71026450

SPK: FMS

Flanged fitting DIN/EN DN80, 25bar,200oC

Flanged fitting DIN/EN DN100,25bar,200oC

Screw assembling on counter flange.
Material: 316Ti, PTFE, C4400.
Usage: FQR50/56, FDR50/56, FTR20.

71026451

SPK: FMS

Flanged fitting DIN/EN DN100,25bar,200oC

Threaded fitting DN100, 6bar, 200oC

Screw assembling, grooved union nut.
Material: 304, Silicone, C4400.
Usage: FQR50/56, FDR50/56, FTR20.

71026442

SPK: FMS

Threaded fitting DN100, 6bar, 200oC

Welded fitting DN100, 200oC

Screw assembling.
Material: 316Ti, Silicone.
Usage: FQR50/56, FDR50/56, FTR20.

71026445

SPK: FMS

Welded fitting DN100, 200oC

Welded fitting DN50, 200oC

Screw assembling.

Material: 316Ti, Silicone.

Usage: FQR50/56, FDR50/56, FTR20.

71026443

SPK: FMS

Welded fitting DN50, 200oC

Flanged fitting DIN/EN DN50, 25bar,200oC

Screw assembling on counter flange.

Material: 316Ti, PTFE, C4400.

Usage: FQR50/56, FDR50/56, FTR20.

71026449

SPK: FMS

Flanged fitting DIN/EN DN50, 25bar,200oC

Silopilot T FMM20

Level transmitter, continuous.

Application: light weight bulk solids.

Measuring: Electromech. level system.

Menu guidance, plain text display.

:: Perfect in high/narrow silos.

FMM20-**71024455**

SPK: FNB



Silopilot T FMM20

Approval:

- A Non-hazardous area
- B ATEX II 1/2D IP67 T99oC
- Y Special version, TSP-no. to be spec.

Housing:

- 1 Aluminium
- 2 Aluminium, coated
- 9 Special version, TSP-no. to be spec.

Measuring Range; Version:

- 4 15m; tape stainl. steel
- 5 32m; tape stainl. steel
- 9 Special version, TSP-no. to be spec.

Max Nozzle Height; Tape Wiper:

- A 230mm; Alu/steel
- B 230mm; stainl.steel
- C 500mm; Alu/steel
- D 500mm; stainl.steel
- E 1000mm; Alu/steel
- F 1000mm; stainl.steel
- Y Special version, TSP-no. to be spec.

Power Supply:

- 1 90-253VAC, 50/60Hz
- 3 20-28VDC
- 9 Special version, TSP-no. to be spec.

Output:

- A 0/4-20mA + 2x relay, function selectable
- C 0/4-20mA + 4x relay, function selectable
- Y Special version, TSP-no. to be spec.

Ambient Temperature:

- D Range -20...+60oC
- E Range -40...+60oC + heater (ATEX II 1/2D > min -35oC)
- F Range -20...+60oC + enhanced resist.
- Y Special version, TSP-no. to be spec.

Process Temperature:

- 1 Range -20...+70oC
- 2 Range -20...+150oC
- 9 Special version, TSP-no. to be spec.

Sensing Weight:

- A w/o
- B Steel
- C Stainl.steel
- D Steel + umbrella
- E Stainl.steel + umbrella
- G Medium bag
- N Plastics
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 2 Window + start-button, extern
- 9 Special version, TSP-no. to be spec.

Silopilot M FMM50

Level transmitter, continuous.
Application: bulk solids.
Measuring: Electromech. level system.
Menu guidance, plain text display.
Converter controlled three-phase motor.
:: Uncomplicated single-phase connect.
:: Robust belt guide.
:: Perfect in high/narrow silos.

FMM50-
52027829
SPK: FNB



Silopilot M FMM50

Approval:

- A Non-hazardous area
- B ATEX II 1/2D IP67 T99oC
- Y Special version, TSP-no. to be spec.

Housing:

- 1 Aluminium
- 2 Aluminium, coated
- 9 Special version, TSP-no. to be spec.

Motor Traction Power:

- A max 250N, bulk density low
- B max 500N, bulk density high
- Y Special version, TSP-no. to be spec.

Measuring Range:

- 1 25m
- 2 35m
- 3 50m
- 4 70m
- 9 Special version, TSP-no. to be spec.

Max Nozzle Height; Tape Wiper:

- A 230mm; Alu/steel
- B 230mm; stainl.steel
- C 500mm; Alu/steel

- D 500mm; stainl.steel
- E 1000mm; Alu/steel
- F 1000mm; stainl.steel
- Y Special version, TSP-no. to be spec.

Power Supply:

- 1 180-253VAC, 50/60Hz
- 2 90-127VAC, 50/60Hz
- 9 Special version, TSP-no. to be spec.

Output:

- A 0/4-20mA + 2x relay, function selectable
- B 0/4-20mA + 6x relay, function selectable
- Y Special version, TSP-no. to be spec.

Ambient Temperature:

- A Range -20...+70oC
- B Range -40...+70oC + heater (ATEX II 1/2D > min -35oC)
- C Range -20...+70oC + enhanced resist.
- Y Special version, TSP-no. to be spec.

Process Temperature:

- 1 Range -20...+70oC
- 2 Range -20...+150oC
- 3 Range -20...+230oC
- 9 Special version, TSP-no. to be spec.

Process Pressure:

- 1 0,8...1,1bar absolute
- 2 0,8...3bar absolute
- 9 Special version, TSP-no. to be spec.

Sensing Weight:

- A w/o
- B Steel
- C Stainl.steel
- D Steel + umbrella
- E Stainl.steel + umbrella
- G Medium bag
- H Steel cage
- J Stainl.steel cage
- K Steel bell
- L Stainl.steel bell
- M Oval float (PVC)
- Y Special version, TSP-no. to be spec.

Additional Option:

- 1 Basic version
- 2 Window + start-button, extern
- 9 Special version, TSP-no. to be spec.

Soliswitch FTE31, thread NPT

Level limit switch, Paddel.
Solid $\geq 100 \text{ g/dm}^3$.
Grain size $\leq 50 \text{ mm}$.
1x relay double pole change over switch.
Housing: Plastics PBT, IP65 NEMA4
Rod: steel 1.4305 (303).
1x Cable entry NPT 1/2.

FTE31-
51002214

SPK: FNC



Soliswitch FTE31, thread NPT

Approval:

- A Non-hazardous area
- B FM DIP Cl.II,III, Div.1 Gr.EFG
- C CSA DIP Cl. II,III, Div.1, Gr.EFG

Power Supply:

- 3 20..28VDC, relay 250VAC, 100mA -10A
- 6 20..28VDC, relay PLC 48VDC, 10mA -100mA
- 2 115VAC, relay 250VAC, 100mA -10A
- 5 115VAC, relay PLC 48VDC, 10mA -100mA
- 1 230VAC, relay 250VAC, 100mA -10A
- 4 230VAC, relay PLC 48VDC, 10mA -100mA

Process Connection:

- A Thread NPT 1-1/4, Valox553(PBT)
- B Thread NPT 1-1/4, 316L
- C Thread NPT 1-1/2, Valox553(PBT)
- D Thread NPT 1-1/2, 316L

Version:

- Y Special version, TSP-no. to be spec.
- 1 Shaft 75mm; compact
- 2 Rope 2m, 316, shortable
- A Shaft 100mm
- B Shaft 200mm
- C Shaft 300mm
- D Shaft 400mm, vertical intall.
- E Shaft 500mm, vertical intall.
- F Shaft 600mm, vertical intall.

Paddel; Additional Option:

- 1 316Ti; basic version
- 2 316L, fold-away, w/o signal lamp

Version:

- 1 Basic version

>>>Marking: (optional)

- A Tagging (TAG), metal
- B Tagging (TAG), on device
- C Commissioning label, paper
- F Tagging (TAG), by customer

Soliswitch FTE30

Level limit switch, paddel.
Solid ≥ 100 g/dm³.
Grain size ≤ 50 mm.
1x relay double pole change over switch.
Housing: Plastics PBT, IP65.
Rod: steel 1.4305 (303).
Approval: dust-Ex zone 20/22, ATEX 1/3D.
2x Cable entry NPT 1/2.

Soliswitch FTE30

Power Supply; Output:

- E 20-28VDC, relay 250VAC, 100mA -10A
- J 20-28VDC, relay PLC 48VDC, 10mA -100mA
- L 20-28VDC,paddle revolut.6U/min;100mA-10A relay 250VAC
- N 20-28VDC,paddle revolut.6U/min;10-100mA relay PLC 48VDC
- D 24VAC, relay 250VAC, 100mA -10A
- I 24VAC, relay PLC 48VDC, 10mA -100mA
- C 48VAC, relay 250VAC, 100mA -10A
- H 48VAC, relay PLC 48VDC, 10mA -100mA
- B 115VAC, relay 250VAC, 100mA -10A
- G 115VAC, relay PLC 48VDC, 10mA -100mA
- A 230VAC, relay 250VAC, 100mA -10A
- F 230VAC, relay PLC 48VDC, 10mA -100mA
- K 230VAC, paddle revolut. 6U/min;100mA-10A relay 250VAC
- M 230VAC, paddle revolut. 6U/min;10-100mA relay PLC 48VDC
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread G 1-1/2, PBT

FTE30-
50080124

SPK: FNC



-
- B Thread G 1-1/2, 303
 - C Thread G 1-1/2, 303, armoured
 - Y Special version, TSP-no. to be spec.

Version:

- 1 Shaft 75mm; compact
- G Shaft 120mm
- 2 Rope 2m, 316, shortable
- 3 Shaft 300mm; armoured
- 4 Shaft 500mm, armoured
- 5 Shaft 800mm, armoured
- A Shaft 100mm
- B Shaft 200mm
- C Shaft 300mm
- D Shaft 400mm, vertical intall.
- E Shaft 500mm, vertical intall.
- F Shaft 600mm, vertical intall.
- 9 Special version, TSP-no. to be spec.

Paddel; Additional Option:

- 1 303; w/o signal lamp
- 2 303; signal lamp
- 3 316L; fold-away
- 4 316L; fold-away; signal lamp
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- A Tagging (TAG), metal
- B Tagging (TAG), on device
- C Commissioning label, paper
- F Tagging (TAG), by customer

Protection cover FMM50, 304

52027964

SPK: FNS

Protection cover FMM50, 304

Protection cover FMM20, Aluminium

71075962

SPK: FNS

Protection cover FMM20, Aluminium

Protection cover FMM20, 304**71028956**

SPK: FNS

Protection cover FMM20, 304

Hinged paddle cpl. FTE30 1.4435**50089768**

SPK: FNS

Hinged paddle cpl. FTE30 1.4435

Protection cover cpl. FTE30**51005551**

SPK: FNS

Protection cover cpl. FTE30

Liquifloat T FTS20 AC/DC PP/PUR, 5m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable PUR: fuels + oils.

Cable length: 5m.

52010123

SPK: FNU

Liquifloat T FTS20 AC/DC PP/PUR, 5m



Counter nut G1, PVC**52010126**

SPK: FNU

Counter nut G1, PVC

Liquifloat T FTS20 AC/DC PP/CSM, 5m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

52010124

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

SPK: FNU

Cable CSM: acids + lyes.

Cable length: 5m.



Liquifloat T FTS20 AC/DC PP/CSM, 5m

Tensioning weight FTS20, PA coated**52010127**

SPK: FNU

Tensioning weight FTS20, PA coated

Liquifloat T FTS20 AC/DC PP/PVC, 5m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

52010122

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

SPK: FNU

Cable PVC: water/wastewater.

Cable length: 5m.



Liquifloat T FTS20 AC/DC PP/PVC, 5m

Liquifloat T FTS20 NAMUR PP/CSM, 5m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

52010121

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable CSM: acids + lyes.

Cable length: 5m.



Liquifloat T FTS20 NAMUR PP/CSM, 5m

Liquifloat T FTS20 NAMUR PP/PUR, 5m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

52010120

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable PUR: fuels + oils.

Cable length: 5m.



Liquifloat T FTS20 NAMUR PP/PUR, 5m

Liquifloat T FTS20 NAMUR PP/PVC, 5m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

52010119

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable PVC: water/wastewater.

Cable length: 5m.



Liquifloat T FTS20 NAMUR PP/PVC, 5m

Liquifloat T FTS20 NAMUR PP/PVC, 20m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

71035516

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable PVC: water/wastewater.

Cable length: 20m.



Liquifloat T FTS20 NAMUR PP/PVC, 20m

Liquifloat T FTS20 NAMUR PP/PUR, 20m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

71035517

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable PUR: fuels + oils.

Cable length: 20m.



Liquifloat T FTS20 NAMUR PP/PUR, 20m

Liquifloat T FTS20 NAMUR PP/CSM, 20m

Point level switch, float.

Application: liquids.

2-wire EN60947-5-6 (NAMUR).

71035518

For use with isolated amplifier.

ATEX II 2G EEx ia IIB T5.

SPK: FNU

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

Cable CSM: acids + lyes.

Cable length: 20m.



Liquifloat T FTS20 NAMUR PP/CSM, 20m

Liquifloat T FTS20 AC/DC PP/PVC, 20m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

71035520

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

SPK: FNU

Cable PVC: water/wastewater.

Cable length: 20m.



Liquifloat T FTS20 AC/DC PP/PVC, 20m

Liquifloat T FTS20 AC/DC PP/PUR, 20m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

71035521

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

SPK: FNU

Cable PUR: fuels + oils.

Cable length: 20m.



Liquifloat T FTS20 AC/DC PP/PUR, 20m

Liquifloat T FTS20 AC/DC PP/CSM, 20m

Point level switch, float.

Application: liquids.

Microswitch double throw 250VAC/150VDC.

71035522

Cylindric shape fits through G1.

Floating body: PP (Polypropylene).

SPK: FNU

Cable CSM: acids + lyes.

Cable length: 20m.



Liquifloat T FTS20 AC/DC PP/CSM, 20m

Compression gland G1, PVC

52010125

SPK: FNU

Compression gland G1, PVC

Soliphant M FTM50

Point level switch, vibronic.
Application: solids.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM50-
52023172
SPK: FPA



Soliphant M FTM50

Approval:

- A Non-hazardous area
- 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
- 2 ATEX II 1/2D Ex tD
- 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
- 4 ATEX II 1/3D Ex tD
- 5 ATEX II 1D,ATEX II 1/2G Ex de(ia)IIC T6
- 6 ATEX II 1D,ATEX II 1/2G Ex d(ia) IIC T6
- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.II,III Div1 Gr.E-G+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 2,21,22
- F FM IS Cl.I,II,III Div.1 Gr.A-G+NI+CSA IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2
- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- T TIIS Ex ia IIC T3
- S TIIS Ex d IIC T3
- X NEPSI Ex ia IIC T2-T6
- Z NEPSI Ex d IIC T2-T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L; Ra<=0.76um/30uin, fork electro-polished
- 7 316L;Ra<=0.76um/30uin, fork + tube electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- B PTFE>316L; completely coated, reduces build-up, no corrosion safety
- C ETFE>316L; completely coated
- 9 Special version, TSP-no. to be spec.

Fork; Bulk Density:

- A 155mm/6inch; min 10g/l

- K 100mm/4inch; min 50g/l
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC
- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- C EN10204-3.1 material (wetted parts) inspection certificate
- D Temp. separator <=150oC/300oF
- E Temp. separator <=150oC/300oF, EN10204- 3.1 material (wetted parts) inspection certificate
- J High temperature <=230oC/450oF
- K High temperature <=230oC/450oF, EN10204- 3.1 material (wetted parts) inspection certificate
- F High temperature <=280oC/540oF
- H High temperature <=280oC/540oF, EN10204- 3.1 material (wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Soliphant M FTM51

Point level switch, vibronic.
Application: solids.
Extension tube.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM51-
52023173
SPK: FPB



Soliphant M FTM51

Approval:

- A Non-hazardous area
- 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
- 2 ATEX II 1/2D Ex tD
- 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
- 4 ATEX II 1/3D Ex tD
- 5 ATEX II 1D,ATEX II 1/2G Ex de(ia)IIC T6
- 6 ATEX II 1D,ATEX II 1/2G Ex d(ia) IIC T6
- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.II,III Div1 Gr.E-G+CSA DIP Cl.II,III Div.1+2 Gr.E-G, FM: zone 21,22
- F FM IS Cl.I,II,III Div.1 Gr.A-G+NI+CSA IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2
- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- T TIIS Ex ia IIC T3
- S TIIS Ex d(ia) IIC T4
- X NEPSI Ex ia IIC T2-T6
- Z NEPSI Ex d(ia) IIC T2-T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor suitable for sliding sleeve
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L;Ra<=0.76um/30uin, fork electro-polished
- 7 316L; Ra<=0.76um/30uin, fork + tube electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- B PTFE>316L; completely coated, reduces build-up, no corrosion safety
- C ETFE>316L; completely coated
- 9 Special version, TSP-no. to be spec.

Overall Length; Bulk Density:

- L xxx mm; min 10g/l
- M xxx mm; min 50g/l
- S xxx mm; min 10g/l, surface refinem.
- T xxx mm; min 50g/l, surface refinem.

- P xxx in; min 10g/l
- Q xxx in; min 50g/l
- U xxx in; min 10g/l, surface refinem.
- V xxx in; min 50g/l, surface refinem.
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC
- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- C EN10204-3.1 material (wetted parts) inspection certificate
- D Temp. separator <=150oC/300oF
- E Temp. separator <=150oC/300oF, EN10204- 3.1 material (wetted parts) inspection certificate
- J High temperature <=230oC/450oF
- K High temperature <=230oC/450oF, EN10204- 3.1 material (wetted parts) inspection certificate
- F High temperature <=280oC/540oF
- H High temperature <=280oC/540oF, EN10204- 3.1 material (wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Soliphant M FTM52

Point level switch, vibronic.
Extension cable.
Application: solids.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM52-
52023174
SPK: FPC



Soliphant M FTM52

Approval:

- A Non-hazardous area
- 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
- 2 ATEX II 1/2D Ex tD (iaD)
- 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
- 4 ATEX II 1/3D Ex tD (iaD)
- 5 ATEX II 1D,ATEX II 1/2G Ex de(ia) IIC T6
- 6 ATEX II 1D,ATEX II 1/2G Ex d(ia) IIC T6
- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.II,III Div1 Gr.E-G+CSA DIP Cl.II,III Div.1+2 Gr.E-G, FM: zone 21,22
- F FM IS Cl.I,II,III Div.1 Gr.A-G+NI+CSA IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2
- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- S TIIS Ex d(ia) IIC T6
- X NEPSI Ex ia IIC T6
- Z NEPSI Ex d(ia) IIC T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L; Ra<=0.76um/30uin, fork electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- 9 Special version, TSP-no. to be spec.

Overall Length; Bulk Density:

- B xxx mm; min 10g/l
- C xxx mm; min 50g/l
- F xxx inch; min 10g/l
- G xxx inch; min 50g/l
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC

- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Rope shortening kit FTM52**52024632**

SPK: FPS

Rope shortening kit FTM52

Sliding sleeve G2 SS, FTM51, press.

Switch point adjustment.

Material: 316L.

Pressurised.

Usage: Soliphant M.

52024631

SPK: FPS

Sliding sleeve G2 SS, FTM51, press.

Sliding sleeve NPT2 SS, FTM51, press.

Switch point adjustment.
Material: 316L.
Pressurised.
Usage: Soliphant M.

52024630

SPK: FPS

Sliding sleeve NPT2 SS, FTM51, press.

Removing tool FTM50/FTM51/FTM52

Usage: Soliphant M, separate housing.

71026213

SPK: FPS

Removing tool FTM50/FTM51/FTM52

Sliding sleeve NPT1-1/2 SS, FTM21,press.

Switch point adjustment.
Material: 316L.
Pressurised.
Usage: FTM21.

52025090

SPK: FPU

Sliding sleeve NPT1-1/2 SS, FTM21,press.

Soliphant T FTM21

Point level switch, vibronic.
Rod probe, extension tube.
Application: solids.
Material: 316L.
Grain size <=25mm.
Bulk density >=200g/l.
Application: fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM21-**52023170**

SPK: FPU

Soliphant T FTM21

Approval:

- A Non-hazardous area
- 4 ATEX II 1/3D
- G IEC Ex tD A20/A22
- C CSA General Purpose, CSA C/US
- D FM DIP+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 21,22
- N NEPSI DIP A20/A22
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1, 316L



- G Thread EN10226 R1-1/2, 316L
- M Thread ANSI NPT1-1/4, 316L
- N Thread ANSI NPT1-1/2, 316L
- Y Special version, TSP-no. to be spec.

Sensor Length:

- 2 500mm
- 3 1000mm
- 4 1500mm
- 6 20inch
- 7 40inch
- 8 60inch
- 9 Special version, TSP-no. to be spec.

Electronics; Output:

- 2 FEM22; 3-wire PNP 10-45VDC
- 4 FEM24; relay DPDT, 19-253VAC/55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 2 F16 Polyester IP66/67 NEMA4X; M20 gland
- 3 F16 Polyester IP66/67 NEMA4X; NPT1/2 thread
- 4 F16 Polyester IP66/67 NEMA4X; G1/2 thread
- 5 F18 Alu IP66/67 NEMA4X; M20 gland
- 6 F18 Alu IP66/67 NEMA4X; NPT3/4 thread
- 7 F18 Alu IP66/67 NEMA4X; G1/2 thread
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Sliding sleeve R1-1/2 SS, FTM21

Switch point adjustment.
Material: 316L.
Usage: FTM21.

52023313

SPK: FPU

Sliding sleeve R1-1/2 SS, FTM21

Soliphant T FTM20

Point level switch, vibronic.
Rod probe.
Application: solids.
Material: 316L.
Grain size <=25mm.
Bulk density >=200g/l.
Sensor: 225mm/9inch.
Application: fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM20-

52023168

SPK: FPU

Soliphant T FTM20

Approval:

- A Non-hazardous area
- 4 ATEX II 1/3D
- G IEC Ex tD A20/A22
- C CSA General Purpose, CSA C/US



- D FM DIP+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 21,22
- N NEPSI DIP A20/A22
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1, 316L
- G Thread EN10226 R1-1/2, 316L
- M Thread ANSI NPT1-1/4, 316L
- N Thread ANSI NPT1-1/2, 316L
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 2 FEM22; 3-wire PNP 10-45VDC
- 4 FEM24; relay DPDT, 19-253VAC/55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 2 F16 Polyester IP66/67 NEMA4X; M20 gland
- 3 F16 Polyester IP66/67 NEMA4X; NPT1/2 thread
- 4 F16 Polyester IP66/67 NEMA4X; G1/2 thread
- 5 F18 Alu IP66/67 NEMA4X; M20 gland
- 6 F18 Alu IP66/67 NEMA4X; NPT3/4 thread
- 7 F18 Alu IP66/67 NEMA4X; G1/2 thread
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Sliding sleeve NPT1-1/2 SS, FTM21

Switch point adjustment.
 Material: 316L.
 Usage: FTM21.

52024578

SPK: FPU

Sliding sleeve NPT1-1/2 SS, FTM21

Sliding sleeve R1-1/2 SS, FTM21, press.

Switch point adjustment.
 Material: 316L.
 Pressurised.
 Usage: FTM21.

52023312

SPK: FPU

Sliding sleeve R1-1/2 SS, FTM21, press.

Liquiphant S FTL70

Point level switch, vibronic.
Application: liquids + high
process temperature.
:: Liquid independent.
Short fork.
:: Suitable on narrow mount. condition.
Integrated gastight feedthrough.
:: Highest safety under high pressure.

FTL70-
52008808
SPK: FQA



Liquiphant S FTL70

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC II T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEEx zone0/1
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T2
- W TIIS Ex d IIC T2
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- C85 DN25 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- C86 DN25 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CF2 DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- CG5 DN50 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- CG6 DN50 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- B12 DN50 PN63 A, 316L flange EN1092-1 (DIN2527 B)
- CI2 DN50 PN63 B2, 316L flange EN1092-1 (DIN2527 E)

CI5 DN50 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CI6 DN50 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 BJ2 DN50 PN100 A, 316L flange EN1092-1
 CJ2 DN50 PN100 B2, 316L flange EN1092-1
 BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CM2 DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
 CN5 DN80 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CN6 DN80 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 B02 DN80 PN63 A, 316Ti flange EN1092-1 (DIN2527 B)
 C02 DN80 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
 C05 DN80 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 C06 DN80 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 B12 DN80 PN100 A, 316L flange EN1092-1
 C12 DN80 PN100 B2, 316L flange EN1092-1
 CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BU2 DN100 PN63 A, 316L flange EN1092-1 (DIN2527 B)
 CU2 DN100 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
 CU5 DN100 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CU6 DN100 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 A82 1" 150lbs RF, 316/316L flange ANSI B16.5
 AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
 AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
 AE5 2" 150lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AE6 2" 150lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
 AF5 2" 300lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AF6 2" 300lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
 AG5 2" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AG6 2" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
 AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
 AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
 AN5 3" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AN6 3" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
 AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
 KF2 20K 50A RF, 316L flange JIS B2220
 KF5 20K 50A RF, AlloyC4 >316L flange JIS B2220
 KF6 20K 50A RF, AlloyC22 >1.4462 flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length:

AB Compact version Ra<3.2um/126uin, 316L, Fork: 318L
 AE Compact version Ra<3.2um/126uin, Alloy
 YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

G4 F16 Polyester IP66; gland M20

- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G5 F17 Alu IP66; gland M20
- F5 F17 Alu IP66; thread G1/2
- E5 F17 Alu NEMA4X; thread NPT3/4
- N5 F17 Alu IP66; plug M12
- G8 F13 Alu IP68; M20 suitable for EEx d/XP
- F8 F13 Alu IP68; thread G1/2, Suitable for EEx d/XP
- E8 F13 Alu NEMA4X; thread NPT3/4 Suitable for EEx d/XP
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20, precision casting, (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2, precision casting
- E1 F27 316L NEMA6P; thread NPT3/4, precision casting
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate
- Y Special version, TSP-no. to be spec.

Application:

- L 230oC/450oF, gas-tight feed through
- N 280oC/540oF, gas-tight feed through
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL50

Measurement: Point Level/Density,
Vibronic.

Application: liquids.

Point Level:

:: Millimeter precision switch point.

:: Application safety:

independent of liquid attribute.

independent of built up.

Density:

Continuous measurement.

:: Measure directly in the tank / pipe.

Liquiphant M FTL50

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G

FTL50-

943490-9000

SPK: FQA



- T CSA XP CI I,II,III Div.1 Gr.A-G
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- C85 DN25 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
- C86 DN25 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- CA2 DN32 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
- CA5 DN32 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CA6 DN32 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- CE2 DN50 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
- CE5 DN50 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CE6 DN50 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CG5 DN50 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CG6 DN50 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- FG2 DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
- NG2 DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
- BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CN5 DN80 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CN6 DN80 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- CQ5 DN100 PN10/16, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CQ6 DN100 PN10/16 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)

BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 A82 1" 150lbs RF, 316/316L flange ANSI B16.5
 AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
 AE5 2" 150lbs, AlloyC4 >316/316L flange ANSI B16.5
 AE6 2" 150lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
 AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
 AM6 3" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQ6 4" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 KA2 10K 25A RF, 316L flange JIS B2220
 KC2 10K 40A RF, 316L flange JIS B2220
 KE2 10K 50A RF, 316L flange JIS B2220
 KE5 10K 50A RF, AlloyC4 >316L flange JIS B2220
 KE6 10K 50A RF, AlloyC22 >316L flange JIS B2220
 KL2 10K 80A RF, 316L flange JIS B2220
 KP2 10K 100A RF, 316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

AA Compact; Ra<3.2um/126uin
 IA Compact; temp. separator
 QA Compact; press.tight feed through

Electronics; Output:

A FEL50A; PROFIBUS PA
 D FEL50D; Density/Concentration, density electronics w/o WHG approval
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

C3 Compact 316L Hygiene IP66/68; cable 5m
 D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
 E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
 N3 Compact 316L Hygiene IP66/68; plug M12
 G4 F16 Polyester IP66; gland M20
 F4 F16 Polyester IP66; thread G1/2
 E4 F16 Polyester NEMA4X; thread NPT1/2
 N4 F16 Polyester IP66; plug M12
 G6 F15 316L Hygiene IP66; gland M20
 F6 F15 316L Hygiene IP66; thread G1/2
 E6 F15 316L Hygiene NEMA4X; thread NPT1/2
 N6 F15 316L Hygiene IP66; plug M12
 G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
 F5 F13/17 Alu IP66; thread G1/2
 E5 F13/17 Alu NEMA4X; thread NPT3/4
 N5 F13/17 Alu IP66; plug M12
 G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
 F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
 E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
 G1 F27 316L IP68; gland M20 (EEx d > thread M20)
 F1 F27 316L IP68; thread G1/2
 E1 F27 316L NEMA6P; thread NPT3/4
 Y9 Special version, TSP-no. to be spec.

Additional Option:

A Basic version
 C EN10204-3.1 material (wetted parts) inspection certificate
 D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
 N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate

- S GL/ABS marine certificate
- K Spec.adjustment density H2O
- L Spec.adjustment density H2O, EN10204-3.1 material (wetted parts) inspection certificate

- B PWIS free, PWIS = paint-wetting impairment substances
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL50H

Measurement: Point Level/Density,
Vibronic.
Food + Life Sciences.
Polished surface.
Application: liquids.
Point Level:
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.
independent of built up.
Density:
Continuous measurement.
:: Measure directly in the tank / pipe.

FTL50H-
943492-9000
SPK: FQA



Liquiphant M FTL50H

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TT2 Ingold fitting 25x46mm, 316L
- EE2 Flush mount, 316L, install > Accessory weld-in adapter
- PE2 DRD 65mm, 316L
- UE2 SMS 2" PN25, 316L
- WE2 Varivent N tube DN65-162 PN10, 316L
- MA2 DIN11851 DN32 PN25 slotted-nut, 316L
- MC2 DIN11851 DN40 PN25 slotted-nut, 316L

ME2 DIN11851 DN50 PN25 slotted-nut, 316L
 HE2 DIN11864-1 A DN50 tube DIN11850, slotted-nut, 316L
 B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
 BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
 BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
 BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
 BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 A82 1" 150lbs RF, 316/316L flange ANSI B16.5
 AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
 AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
 AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
 AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 KA2 10K 25A RF, 316L flange JIS B2220
 KC2 10K 40A RF, 316L flange JIS B2220
 KE2 10K 50A RF, 316L flange JIS B2220
 KL2 10K 80A RF, 316L flange JIS B2220
 KP2 10K 100A RF, 316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

AC Compact; Ra<1.5um/59uin
 AD Compact; Ra<0.3um/12uin
 IC Compact; Ra<1.5um/59uin + TS= temp. separator
 ID Compact; Ra<0.3um/12uin + TS= temp. separator
 QC Compact; Ra<1.5um/59uin + PF= press.tight feed through
 QD Compact; Ra<0.3um/12uin + PF= press.tight feed through
 YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
 D FEL50D; Density/Concentration, density electronics w/o WHG approval
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

C3 Compact 316L Hygiene IP66/68; cable 5m
 D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
 E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
 N3 Compact 316L Hygiene IP66/68; plug M12
 G4 F16 Polyester IP66; gland M20
 F4 F16 Polyester IP66; thread G1/2
 E4 F16 Polyester NEMA4X; thread NPT1/2
 N4 F16 Polyester IP66; plug M12
 G6 F15 316L Hygiene IP66; gland M20
 F6 F15 316L Hygiene IP66; thread G1/2
 E6 F15 316L Hygiene NEMA4X; thread NPT1/2
 N6 F15 316L Hygiene IP66; plug M12
 G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)

- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
 - C EN10204-3.1 material (316L wetted parts) inspection certificate
 - D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
 - S GL/ABS marine certificate
 - B CoC-ASME BPE, EN10204-3.1 material (316L wetted parts) inspection certificate
 - K Spec.adjustment density H2O
 - L Spec.adjustment density H2O,EN10204-3.1 material (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant S FDL60

Point level switch, vibronic.

Application: liquids.

:: Liquid independent.

:: Approved in millions of application.

:: SIL3, IEC61508.

Fail-safe to class 5, acc. DIN V 19250.

:: Redundant acc. VdTÜV in one device.

:: Permanent self function control.

:: Recurrent function test is not applicable.

FDL60-**942197-9000**

SPK: FQA



Liquiphant S FDL60

Approval:

- R Non-hazardous area
- G ATEX II 1/2G EEx ia IIC T6
- B ATEX II 1/2G EEx ia IIC T6, VdTÜV100
- F ATEX II 1/2G EEx ia IIC T6, WHG
- M NEPSI Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GR2 Thread ISO228 G1, 316Ti
- GR5 Thread ISO228 G1, AlloyC
- GN2 Thread ANSI NPT1, 316Ti
- GN5 Thread ANSI NPT1, AlloyC
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316Ti
- ME2 DIN11851 DN50 PN25 slotted nut, 316Ti
- BA2 DN32 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BB2 DN32 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CA5 DN32 PN6, AlloyC >316L flange EN1092-1 (DIN2527 C)
- BC2 DN40 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BG2 DN50 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
- CE5 DN50 PN6, AlloyC >316L flange EN1092-1 (DIN2527 C)
- CG5 DN50 PN25/40, AlloyC >316Ti flange EN1092-1 (DIN2527)
- FG2 DN50 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NG2 DN50 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- BK2 DN65 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)

CN5	DN80 PN25/40, AlloyC >316L flange EN1092-1 (DIN2527)
FN2	DN80 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
NN2	DN80 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
BQ2	DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
CQ2	DN100 PN10/16 B1, 316Ti flange EN1092-1 (DIN2527 C)
BR2	DN100 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
CR2	DN100 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
CQ5	DN100 PN10/16, AlloyC >316Ti flange EN1092-1 (DIN2527)
FR2	DN100 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
NR2	DN100 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
AA2	1-1/4" 150lbs RF, 316Ti flange ANSI B16.5
AC2	1-1/2" 150lbs RF, 316Ti flange ANSI B16.5
AE2	2" 150lbs RF, 316Ti flange ANSI B16.5
AE5	2" 150lbs, AlloyC >316Ti flange ANSI B16.5
AG2	2" 300lbs RF, 316Ti flange ANSI B16.5
AG5	2" 300lbs, AlloyC >316Ti flange ANSI B16.5
AK2	2-1/2" 300lbs RF, 316Ti flange ANSI B16.5
AL2	3" 150lbs RF, 316Ti flange ANSI B16.5
AN2	3" 300lbs RF, 316Ti flange ANSI B16.5
AP2	4" 150lbs RF, 316Ti flange ANSI B16.5
AR2	4" 300lbs RF, 316Ti flange ANSI B16.5
AV2	6" 150lbs RF, 316Ti flange ANSI B16.5
A12	6" 300lbs RF, 316Ti flange ANSI B16.5
KE2	10K 50A RF, 316Ti flange JIS B2220
KE5	10K 50A, AlloyC >316Ti flange JIS B2220
YY9	Special version, TSP-no. to be spec.

Fork Surface Finish:

- A Ra<3.2um/126uin, standard
- B Ra<1.5um/59uin, polished
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 7 FEL67; 2-wire PFM

Housing; Cable Entry:

- O F10 Polyester IP66; gland M20
- L F10 Polyester IP66; thread NPT1/2
- M F10 Polyester IP66; gland G1/2
- P F10 Polyester IP66; plug HNA24
- V F6 Alu, coated IP66; gland M20
- T F6 Alu, coated IP66; thread NPT1/2
- U F6 Alu, coated IP66; thread G1/2
- W F6 Alu, coated IP66; plug HNA24
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant S FTL71

Point level switch, vibronic.
Application: liquids + high process temperature.
:: Liquid independent.
Short fork, extension tube.
:: Suitable on narrow mount. condition.
Integrated gastight feedthrough.
:: Highest safety under high pressure.

Liquiphant S FTL71

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC II T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1

FTL71-
52008809
SPK: FQB



- L ATEX II 1/2G EEx d IIC T6, WHG/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEEx zone0/1
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- U CSA General Purpose
- V TIIS Ex ia IIC T2
- W TIIS Ex d IIC T2
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- C86 DN25 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- C85 DN25 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CF2 DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CG6 DN50 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- CG5 DN50 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BI2 DN50 PN63 A, 316L flange EN1092-1 (DIN2527 B)
- CI2 DN50 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
- CI5 DN50 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- CI6 DN50 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- BJ2 DN50 PN100 A, 316L flange EN1092-1
- CJ2 DN50 PN100 B2, 316L flange EN1092-1
- BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CM2 DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- CN5 DN80 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- CN6 DN80 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- B02 DN80 PN63 A, 316Ti flange EN1092-1 (DIN2527 B)
- C02 DN80 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
- C05 DN80 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- C06 DN80 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- B12 DN80 PN100 A, 316L flange EN1092-1
- C12 DN80 PN100 B2, 316L flange EN1092-1
- CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)

BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BU2 DN100 PN63 A, 316L flange EN1092-1 (DIN2527 B)
CU2 DN100 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
CU5 DN100 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
CU6 DN100 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
A82 1" 150lbs RF, 316/316L flange ANSI B16.5
AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
AE5 2" 150lbs, AlloyC4 >1.4462 flange ANSI B16.5
AE6 2" 150lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
AF5 2" 300lbs, AlloyC4 >1.4462 flange ANSI B16.5
AF6 2" 300lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
AG5 2" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
AG6 2" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
AN5 3" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
AN6 3" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
KF2 20K 50A RF, 316L flange JIS B2220
KF5 20K 50A RF, AlloyC4 >316L flange JIS B2220
KF6 20K 50A RF, AlloyC22 >1.4462 flange JIS B2220
YY9 Special version, TSP-no. to be spec.

Probe Length:

BB xxx mm L, Ra<3.2um/126uin, 316L, Fork: 318L
BE xxx mm L, Ra<3.2um/126uin, Alloy
CB xxx inch L, Ra<3.2um/126uin, 316L, Fork: 318L
CE xxx inch L, Ra<3.2um/126uin, Alloy
YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
1 FEL51; SIL 2-wire 19-253VAC
2 FEL52; SIL 3-wire PNP 10-55VDC
4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
5 FEL55; SIL 8/16mA, 11-36VDC
6 FEL56; SIL NAMUR (L-H signal)
7 FEL57; SIL 2-wire PFM
8 FEL58;SIL NAMUR+test button (H-L signal)
9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

G4 F16 Polyester IP66; gland M20
F4 F16 Polyester IP66; thread G1/2
E4 F16 Polyester NEMA4X; thread NPT1/2
N4 F16 Polyester IP66; plug M12
G6 F15 316L Hygiene IP66; gland M20
F6 F15 316L Hygiene IP66; thread G1/2
E6 F15 316L Hygiene NEMA4X; thread NPT1/2
N6 F15 316L Hygiene IP66; plug M12
G5 F17 Alu IP66; gland M20
F5 F17 Alu IP66; thread G1/2
E5 F17 Alu NEMA4X; thread NPT3/4
N5 F17 Alu IP66; plug M12
G8 F13 Alu IP68; M20 suitable for EEx d/XP
F8 F13 Alu IP68; thread G1/2, Suitable for EEx d/XP
E8 F13 Alu NEMA4X; thread NPT3/4 Suitable for EEx d/XP
G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment

- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20, precision casting, (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2, precision casting
- E1 F27 316L NEMA6P; thread NPT3/4, precision casting
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate
- Y Special version, TSP-no. to be spec.

Application:

- L 230oC/450oF, gas-tight feed through
- N 280oC/540oF, gas-tight feed through
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL51C

Measurement: Point Level/Density,
Vibronic.

Coated, extension tube.

Application: liquids.

Point Level:

:: Millimeter precision switch point.

:: Application safety:

independent of liquid attribute.

independent of built up.

Density:

Continuous measurement.

:: Measure directly in the tank / pipe.

FTL51C-**52005888****SPK: FQB**

Liquiphant M FTL51C

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEEx zone0/1
- 1 ATEX II 1/2G Ex ia IIB T6, WHG
- 2 ATEX II 1/2G EEx d IIB T6, WHG/IECEEx zone0/1
- 3 ATEX II 1/2G EEx de IIB T6, WHG/IECEEx zone0/1
- 4 ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!
- 5 ATEX II 1/2G EEx d IIC T6, WHG, IEC, XA IECEEx zone0/1 note safety instruction (XA) (electrostatic charging)!
- 6 ATEX II 1/2G EEx de IIC T6, WHG, IEC, XA IECEEx zone0/1 note safety instruction (XA) (electrostatic charging)!
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

B8K DN25 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
 BBK DN32 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
 BDK DN40 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
 BEK DN50 PN6, ECTFE >316L flange EN1092-1 (DIN2527)
 BGK DN50 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
 BNK DN80 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
 BQK DN100 PN10/16, ECTFE >316L flange EN1092-1 (DIN2527)
 B8L DN25 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BBL DN32 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BDL DN40 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BEL DN50 PN6, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BGL DN50 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BNL DN80 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 BQL DN100 PN10/16, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
 B8M DN25 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BBM DN32 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BDM DN40 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BEM DN50 PN6, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BGM DN50 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BNM DN80 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 BQM DN100 PN10/16, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
 B8N DN25 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BBN DN32 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BDN DN40 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BEN DN50 PN6, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BGN DN50 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BNN DN80 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 BQN DN100 PN10/16, PFA(conductive) >316L flange EN1092-1 (DIN2527)
 CGS DN50 PN25/40, Enamel >1.0487 flange EN1092-1 (DIN2527)
 CNS DN80 PN25/40, Enamel >1.0487 flange EN1092-1 (DIN2527)
 A8K 1" 150lbs, ECTFE >316/316L flange ANSI B16.5
 ACK 1-1/2" 150lbs, ECTFE >316/316L flange ANSI B16.5
 AEK 2" 150lbs, ECTFE >316/316L flange ANSI B16.5
 AFK 2" 300lbs, ECTFE >316/316L flange ANSI B16.5
 ALK 3" 150lbs, ECTFE >316/316L flange ANSI B16.5
 APK 4" 150lbs, ECTFE >316/316L flange ANSI B16.5
 A8L 1" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 ACL 1-1/2" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 AEL 2" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 AFL 2" 300lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 ALL 3" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 APL 4" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 A8M 1" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 ACM 1-1/2" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 AEM 2" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 AFM 2" 300lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 ALM 3" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 APM 4" 150lbs, PFA(Rubyred) >316/316L flange ANSI B16.5
 A8N 1" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 ACN 1-1/2" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AEN 2" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AFN 2" 300lbs, PFA(conductive) >316/316L flange ANSI B16.5
 ALN 3" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 APN 4" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AES 2" 150lbs, Enamel >1.0487 ASTM A516 Grade 60 flange ANSI B16.5
 AFS 2" 300lbs, Enamel >1.0487 ASTM A516 Grade 60 flange ANSI B16.5
 KEK 10K 50A, ECTFE >316L flange JIS B2220
 KEL 10K 50A, PFA(Edlon) >316L flange JIS B2220
 KEM 10K 50A, PFA(RubyRed) >316L flange JIS B2220
 KEN 10K 50A, PFA(conductive) >316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

BK xxx mm; ECTFE
 BL xxx mm; PFA (Edlon)
 BM xxx mm; PFA (RubyRed)

- BN xxx mm; PFA (conductive)
- BS xxx mm; Enamel
- ES 200mm; Enamel
- FS 300mm; Enamel
- GS 400mm; Enamel
- HS 500mm; Enamel
- KS 600mm; Enamel
- CK xxx inch; ECTFE
- CL xxx inch; PFA (Edlon)
- CM xxx inch; PFA (RubyRed)
- CN xxx inch; PFA (conductive)
- CS xxx inch; Enamel
- DK L=type II; ECTFE, Switch point = Liquiphant II compact
- DL L=type II; PFA (Edlon), Switch point = Liquiphant II compact
- DM L=type II; PFA (RubyRed), Switch point = Liquiphant II compact
- DN L=type II; PFA (conductive), Switch point = Liquiphant II compact
- DS L=type II; Enamel, Switch point = Liquiphant II compact
- YY Special version, TSP-no. to be spec.

Electronics; Output:

- A FEL50A; PROFIBUS PA
- D FEL50D; Density/Concentration, density electronics w/o WHG approval
- 1 FEL51; SIL 2-wire 19-253VAC
- 2 FEL52; SIL 3-wire PNP 10-55VDC
- 4 FEL54; SIL relay DPDT 19-253VAC/19-55VDC
- 5 FEL55; SIL 8/16mA, 11-36VDC
- 6 FEL56; SIL NAMUR (L-H signal)
- 7 FEL57; SIL 2-wire PFM
- 8 FEL58; SIL NAMUR+test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- G4 F16 Polyester IP66; gland M20
- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G6 F15 316L Hygiene IP66; gland M20
- F6 F15 316L Hygiene IP66; thread G1/2
- E6 F15 316L Hygiene NEMA4X; thread NPT1/2
- N6 F15 316L Hygiene IP66; plug M12
- G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66, thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66, thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20 (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2
- E1 F27 316L NEMA6P; thread NPT3/4
- Y9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- S GL/ABS marine certificate, max 1600mm
- K Spec.adjustment density H2O
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- B Temp. separator
- C 2nd line of defence > (press.tight feed through)
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL51

Measurement: Point Level/Density,
Vibronic.
Extension tube.
Application: liquids.
Point Level:
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.
independent of built up.
Density:
Continuous measurement.
:: Measure directly in the tank / pipe.

FTL51-
943491-9000

SPK: FQB



Liquiphant M FTL51

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)

C85 DN25 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
C86 DN25 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
CA2 DN32 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
CA5 DN32 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
CA6 DN32 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
CE2 DN50 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
CE5 DN50 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
CE6 DN50 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
CG5 DN50 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
CG6 DN50 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
FG2 DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
NG2 DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
BJ2 DN50 PN100 A, 316L flange EN1092-1 (DIN2527 B)
CJ2 DN50 PN100 B2, 316L flange EN1092-1 (DIN2527)
BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
CN5 DN80 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
CN6 DN80 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
B12 DN80 PN100 A, 316L flange EN1092-1 (DIN2527 B)
C12 DN80 PN100 B2, 316L flange EN1092-1 (DIN2527)
BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CQ5 DN100 PN10/16, AlloyC4 >316L flange EN1092-1 (DIN2527)
CQ6 DN100 PN10/16 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
A82 1" 150lbs RF, 316/316L flange ANSI B16.5
AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
AE5 2" 150lbs, AlloyC4 >316/316L flange ANSI B16.5
AE6 2" 150lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
AJ2 2-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
AM6 3" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
AQ6 4" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
KA2 10K 25A RF, 316L flange JIS B2220
KC2 10K 40A RF, 316L flange JIS B2220
KE2 10K 50A RF, 316L flange JIS B2220
KE5 10K 50A, AlloyC4 >316L flange JIS B2220
KE6 10K 50A RF, AlloyC22 >316L flange JIS B2220
KL2 10K 80A RF, 316L flange JIS B2220
KP2 10K 100A RF, 316L flange JIS B2220
YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

- BB xxx mm; 316L, Ra<3.2um/126uin
- BE xxx mm; Alloy, Ra<3.2um/126uin
- CB xxx inch; 316L, Ra<3.2um/126uin
- CE xxx inch; Alloy, Ra<3.2um/126uin
- DB L=type II; 316L, Ra<3.2um/126uin, Switch point = Liquiphant II compact
- DE L=type II; Alloy, Ra<3.2um/126uin, Switch point = Liquiphant II compact
- JB xxx mm; 316L + temp. separator
- JE xxx mm; Alloy + temp. separator
- KB xxx inch; 316L + temp. separator
- KE xxx inch; Alloy + temp. separator
- LB L=type II; 316L + temp. separator, Switch point = Liquiphant II compact
- LE L=type II; Alloy + temp. separator Switch point = Liquiphant II compact
- RB xxx mm; 316L+ press.tight feed through
- RE xxx mm; Alloy + press.tight feed through
- SB xxx inch;316L+press.tight feed through
- SE xxx inch; Alloy + press.tight feed through
- TB L=type II; 316L + press.tight feed through, Switch point = Liquiphant II compact
- TE L=type II; Alloy + press.tight feed through, switch point = Liquiphant II compact
- YY Special version, TSP-no. to be spec.

Electronics; Output:

- A FEL50A; PROFIBUS PA
- D FEL50D; Density/Concentration, density electronics w/o WHG approval
- 1 FEL51; SIL 2-wire 19-253VAC
- 2 FEL52; SIL 3-wire PNP 10-55VDC
- 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
- 5 FEL55; SIL 8/16mA, 11-36VDC
- 6 FEL56; SIL NAMUR (L-H signal)
- 7 FEL57; SIL 2-wire PFM
- 8 FEL58;SIL NAMUR+test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- C3 Compact 316L Hygiene IP66/68; cable 5m
- D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
- E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
- N3 Compact 316L Hygiene IP66/68; plug M12
- G4 F16 Polyester IP66; gland M20
- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G6 F15 316L Hygiene IP66; gland M20
- F6 F15 316L Hygiene IP66; thread G1/2
- E6 F15 316L Hygiene NEMA4X; thread NPT1/2
- N6 F15 316L Hygiene IP66; plug M12
- G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20 (EEx d > thread M20)
- F1 F27 316L IP68; thread G1/2
- E1 F27 316L NEMA6P; thread NPT3/4
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate, max 1600mm
- P 100bar process pressure
- R 100bar process pressure, EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate

- K Spec.adjustment density H2O
L Spec.adjustment density H2O,EN10204-3.1 material (wetted parts) inspection certificate
- B PWIS free, PWIS = paint-wetting impairment substances, max 2000mm
Y Special version, TSP-no. to be spec.
- >>>Marking: (optional)**
- 1 Tagging (TAG), see additional spec.

Liquiphant S FDL61

Point level switch, vibronic.
Application: liquids.
:: Liquid independent.
Extension tube.
:: Approved in millions of application.
:: SIL3, IEC61508.
Fail-safe to class 5, acc. DIN V 19250.
:: Redundant acc. VdTÜV in one device.
:: Permanent self function control.
:: Recurrent function test is not applicable.

FDL61-
942198-9000
SPK: FQB



Liquiphant S FDL61

Approval:

- R Non-hazardous area
G ATEX II 1/2G EEx ia IIC T6
B ATEX II 1/2G EEx ia IIC T6, VdTÜV100 (liquified gas)
F ATEX II 1/2G EEx ia IIC T6, WHG
M NEPSI Ex ia IIC T6
Y Special version, TSP-no. to be spec.

Process Connection:

- GR2 Thread ISO228 G1, 316Ti
GR5 Thread ISO228 G1, AlloyC
SR2 Thread ISO228 G1-1/2, 316Ti, Sliding sleeve
SR5 Thread ISO228 G1-1/2, AlloyC, Sliding sleeve
GN2 Thread ANSI NPT1, 316Ti
GN5 Thread ANSI NPT1, AlloyC
SN2 Thread ANSI NPT1-1/2, 316Ti, Sliding sleeve
SN5 Thread ANSI NPT1-1/2, AlloyC, Sliding sleeve
TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316Ti
ME2 DIN11851 DN50 PN25 slotted nut, 316Ti
BA2 DN32 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
CA5 DN32 PN6, AlloyC >316L flange EN1092-1 (DIN2527)
BB2 DN32 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
BC2 DN40 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
BD2 DN40 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
BE2 DN50 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
CE5 DN50 PN6, AlloyC >316L flange EN1092-1 (DIN2527)
BG2 DN50 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
CG2 DN50 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
CG5 DN50 PN25/40, AlloyC >316Ti flange EN1092-1 (DIN2527)
FG2 DN50 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
NG2 DN50 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
BK2 DN65 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
BM2 DN80 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
BN2 DN80 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
CN2 DN80 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
CN5 DN80 PN25/40, AlloyC >316L flange EN1092-1 (DIN2527)
FN2 DN80 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
NN2 DN80 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
BQ2 DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
CQ2 DN100 PN10/16 B1, 316Ti flange EN1092-1 (DIN2527 C)
CQ5 DN100 PN10/16, AlloyC >316Ti flange EN1092-1 (DIN2527)
BR2 DN100 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)

- CR2 DN100 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
 FR2 DN100 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
 NR2 DN100 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
 AA2 1-1/4" 150lbs RF, 316Ti flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316Ti flange ANSI B16.5
 AE2 2" 150lbs RF, 316Ti flange ANSI B16.5
 AE5 2" 150lbs, AlloyC >316Ti flange ANSI B16.5
 AG2 2" 300lbs RF, 316Ti flange ANSI B16.5
 AG5 2" 300lbs, AlloyC >316Ti flange ANSI B16.5
 AK2 2-1/2" 300lbs RF, 316Ti flange ANSI B16.5
 AL2 3" 150lbs RF, 316Ti flange ANSI B16.5
 AN2 3" 300lbs RF, 316Ti flange ANSI B16.5
 AP2 4" 150lbs RF, 316Ti flange ANSI B16.5
 AR2 4" 300lbs RF, 316Ti flange ANSI B16.5
 AV2 6" 150lbs RF, 316Ti flange ANSI B16.5
 A12 6" 300lbs RF, 316Ti flange ANSI B16.5
 KE2 10K 50A RF, 316Ti flange JIS B2220
 KE5 10K 50A, AlloyC >316Ti flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Fork Surface Finish:

- A Ra<3.2um/126uin, standard
 B Ra<1.5um/59uin, polished
 Y Special version, TSP-no. to be spec.

Probe Length:

- A xxx mm, pipe + fork, 316Ti
 C xxx mm, pipe + fork, AlloyC
 G xxx mm, 316Ti, fork polished
 1 xxx inch, pipe + fork, 316Ti
 3 xxx inch, pipe + fork, AlloyC
 4 xxx inch, 316Ti, fork polished
 Y Special version, TSP-no. to be spec.

Electronics; Output:

- 7 FEL67, 2-wire PFM

Housing; Cable Entry:

- O F10 Polyester IP66; gland M20
 L F10 Polyester IP66; thread NPT1/2
 M F10 Polyester IP66; gland G1/2
 P F10 Polyester IP66; plug HNA24
 V F6 Alu, coated IP66; gland M20
 T F6 Alu, coated IP66; thread NPT1/2
 U F6 Alu, coated IP66; thread G1/2
 W F6 Alu, coated IP66; plug HNA24
 Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL51H

Measurement: Point Level/Density,
 Vibronic.
 Food + Life Sciences.
 Polished surface.
 Application: liquids.
 Point Level:
 :: Millimeter precision switch point.
 :: Application safety:
 independent of liquid attribute.
 independent of built up.
 Density:
 Continuous measurement.
 :: Measure directly in the tank / pipe.

Liquiphant M FTL51H

FTL51H-
943493-9000
 SPK: FQB



Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TT2 Ingold fitting 25x46mm, 316L
- EE2 Flush mount, 316L, install > Accessory weld-in adapter
- PE2 DRD 65mm, 316L
- UE2 SMS 2" PN25, 316L
- WE2 Varivent N tube DN65-162 PN10, 316L
- MA2 DIN11851 DN32 PN25 slotted-nut, 316L
- MC2 DIN11851 DN40 PN25 slotted-nut, 316L
- ME2 DIN11851 DN50 PN25 slotted-nut, 316L
- HE2 DIN11864-1 A DN50 tube DIN11850, slotted-nut, 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- A82 1" 150lbs RF, 316/316L flange ANSI B16.5
- AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
- AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
- AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
- AJ2 2-1/2" 300lbs RF, 316/316L flange ANSI B16.5
- AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
- AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
- AP2 4" 150lbs RF, 316/316L flange ANSI B16.5

- AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
- KA2 10K 25A RF, 316L flange JIS B2220
- KC2 10K 40A RF, 316L flange JIS B2220
- KE2 10K 50A RF, 316L flange JIS B2220
- KL2 10K 80A RF, 316L flange JIS B2220
- KP2 10K 100A RF, 316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

- BC xxx mm; Ra<1.5um/59uin
- BD xxx mm; Ra<0.3um/12uin
- CC xxx inch; Ra<1.5um/59uin
- CD xxx inch; Ra<0.3um/12uin
- DC L=type II; Ra<1.5um/59uin, Switch point = Liquiphant II compact
- DD L=type II; Ra<0.3um/12uin, Switch point = Liquiphant II compact
- JC xxx mm; Ra<1.5um/59uin + TS= temp. separator
- JD xxx mm; Ra<0.3um/12uin + TS= temp. separator
- KC xxx inch; Ra<1.5um/59uin + TS= temp. separator
- KD xxx inch; Ra<0.3um/12uin + TS= temp. separator
- LC L=type II; Ra<1.5um/59uin + TS= temp. separator Switch point = Liquiphant II compact
- LD L=type II; Ra<0.3um/12uin + TS= temp. separator Switch point = Liquiphant II compact
- RC xxx mm; Ra<1.5um/59uin + PF= press.tight feed through
- RD xxx mm; Ra<0.3um/12uin + PF= press.tight feed through
- SC xxx inch; Ra<1.5um/59uin + PF= press.tight feed through
- SD xxx inch; Ra<0.3um/12uin + PF= press.tight feed through
- TC L=type II; Ra<1.5um/59uin + PF= press.tight feed through, switch point = Liquiphant II compact
- TD L=type II; Ra<0.3um/12uin + PF= press.tight feed through, switch point = Liquiphant II compact
- YY Special version, TSP-no. to be spec.

Electronics; Output:

- A FEL50A; PROFIBUS PA
- D FEL50D; Density/Concentration, density electronics w/o WHG approval
- 1 FEL51; SIL 2-wire 19-253VAC
- 2 FEL52; SIL 3-wire PNP 10-55VDC
- 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
- 5 FEL55; SIL 8/16mA, 11-36VDC
- 6 FEL56; SIL NAMUR (L-H signal)
- 7 FEL57; SIL 2-wire PFM
- 8 FEL58;SIL NAMUR+test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- C3 Compact 316L Hygiene IP66/68; cable 5m
- D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
- E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
- N3 Compact 316L Hygiene IP66/68; plug M12
- G4 F16 Polyester IP66; gland M20
- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G6 F15 316L Hygiene IP66; gland M20
- F6 F15 316L Hygiene IP66; thread G1/2
- E6 F15 316L Hygiene NEMA4X; thread NPT1/2
- N6 F15 316L Hygiene IP66; plug M12
- G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
 - C EN10204-3.1 material (316L wetted parts) inspection certificate
 - D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
 - S GL/ABS marine certificate, max 1600mm
 - B CoC-ASME BPE, EN10204-3.1 material (316L wetted parts) inspection certificate
 - K Spec.adjustment density H2O
 - L Spec.adjustment density H2O,EN10204-3.1 material (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.
- >>>Marking: (optional)**
- 1 Tagging (TAG), see additional spec.

Densitycontroller FML621; Liquiphant

Function with Liquiphant M and electronic insert FEL50D.

Out of the measurement signal, of the Liquiphant, the density and concentration values are calculated.

:: Calculation of the liquid concentration.

:: Interface measurement.

:: Integrated datalogging.

Input:

4x FEL50D / 0/4-20mA.

Output (without ethernet):

2x 0/4-20mA/pulse.

1x Rel.SPST, 1x loop power supply

Output (with ethernet):

1x Rel.SPST, 1x LPS.

4x LPS = loop power supply.

incl. ReadWin 2000.

FML621-

71027966

SPK: FQH



Densitycontroller FML621; Liquiphant

Approval:

- A Non-hazardous area
- B ATEX II(1)GD EEx ia IIC
- C FM AIS I,II,III/1/ABCDEF
- D CSA (Ex ia) I,II,III/1/ABCDEF
- E IECEx (Ex ia) IIC

Display; Operating:

- 1 Not selected; w/o push button
- 2 Alphanumeric; 8 push button
- 3 Separat; panel 72x144mm, RS485
- 4 Separat; panel 72x144mm, 2x RS485

Power Supply:

- 1 90-250VAC
- 2 20-36VDC, 20-28VAC

Slot B:

- A Nicht benutzt
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- D Input: 4x digital output: 6x relay SPST
- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex-i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Slot C:

- A Not used
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- D Input: 4x digital output: 6x relay SPST

- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Slot D:

- A Not used
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- D Input: 4x digital output: 6x relay SPST
- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex-i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Software:

- AA Mathematic+ density module
- AB Mathematic + density module + telealarm
- YY Special version, TSP-no. to be spec.

Operation Language:

- A German
- B English
- C French
- D Italian
- E Spanish
- F Dutch
- G Czech

Communication:

- 1 1x RS232 + 1x RS485
- 2 1x RS232 + 1x RS485 + cable
- 3 1x RS232 + PROFIBUS DP slave-modul
- 4 1x RS232 + cable + PROFIBUS DP slave-modul external
- 5 1x RS232 + 2x RS485
- 6 1x RS232 + 2x RS485 + cable
- C 1x RS232 + PROFIBUS DP slave-Module + Ethernet
- D 1x RS232+ PROFIBUS DP slave module+cable+ ethernet
- E 1x RS232 + 2x RS485 + ethernet
- F 1x RS232 + 2x RS485 + ethernet + cable

Option:

- 1 not selected
- 2 Works calib. certif.

>>>Marking: (optional)

- A Tagging (TAG), metal
- B Tagging (TAG), on device
- C Commissioning label, paper
- F Tagging (TAG), by customer

Nivotester FTL325P

Level instrument, point level.
Input: 1/3-channel, 2-wire PFM.
:: Function control.

FTL325P-
52008684
SPK: FQN



Nivotester FTL325P

Approval:

- F ATEX II (1)GD (EEx ia) IIC, WHG, IECEx (Ex ia) IIC
- H ATEX II (1)GD (EEx ia) IIC,WHG,SIL,IECEx (Ex ia) IIC (Liquiphant M/Liquiphant S)

- G ATEX II 3(1)G Ex nC/ A (ia) IIC T4, SIL IECEx zone 2
- O FM IS Cl.I,II,III Div.1 Gr.A-G
- P FM IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- S CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2
- T CSA IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- V TIIS Ex ia IIC, labeling in Japan
- M NEPSI (Ex ia) IIC
- N NEPSI (Ex ia) IIC, SIL (Liquiphant M/Liquiphant S)

Housing:

- 1 Rail mounting, 22.5mm, 1-channel
- 3 Rail mounting, 45mm, 3-channel
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- E 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm
- 3 3x SPDT level + 1x SPST alarm
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Nivotester FTL375P

Level instrument, point level.
Input: 1/2/3-channel, 2-wire PFM.
:: Function control.

FTL375P-
52008683

SPK: FQO



Nivotester FTL375P

Approval:

- F ATEX II (1)GD (EEx ia) IIC, WHG
- H ATEX II (1)GD (EEx ia) IIC, WHG, SIL (Liquiphant M/Liquiphant S)
- V TIIS Ex ia IIC, labeling in Japan

Housing:

- 1 Racksyst 4HP
- 9 Special version, TSP-no. to be spec.

Power Supply:

- E 20-30VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPDT alarm
- 2 2x SPDT level + 1x SPDT alarm
- 3 3x SPDT level
- 9 Special version, TSP-no. to be spec.

Nivotester FTL670

Level instrument, point level.
Status indication via LED.
Max-point level detection,
intrinsically safe.
Input: 1-channel, 2-wire PFM.
Usage: FDL60/FDL61.
Output: redundant relay circuit.
Racksyst plug-in card, 4PU.
ATEX II (1)G (EEx ia) IIC.
Fail-safe to class 5, acc. DIN V 19250.
Permanent function control.

016501-0040

SPK: FQO



Nivotester FTL670

Densitycontroller FML621A, Accessory**FML621A-****71028997**

SPK: FQR



Densitycontroller FML621A, Accessory

Description:

- AA Display- and operating keys: in offset housing for panel mounting 144x72mm
- CA Extension card 2x U, I, TC Out. 2x0/4-20mA Imp., 2x Dig, 2x Rel. SPST
- CB Extension card 2x U, I, TC, Ex approval Out. 2x0/4-20mA Imp., 2x Dig, 2x Rel. SPST
- DA Extension card digital, 6x dig. In, 6x Rel. Out, cpl. incl. terminal + fixing frame
- DB Extension card digital ATEX approval, 6x dig. In, 6x Rel. Out, cpl. incl. terminal + fixing frame

- TA Extension card temperature, (Pt100/Pt500/Pt1000) cpl. incl. connector + fixing frame
- TB Extension card temp. ATEX approval, (Pt100/500/1000) cpl. incl. terminals
- UA Extension card universal, (PFM/pulse/analog/loop power) cpl. incl. connector + fixing frame

- UB Extension card univ. ATEX approval, (PFM/pulse/analog/loop power) cpl. incl. terminal

Sliding sleeve G1, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003978

SPK: FQS

Sliding sleeve G1, 316L

Sliding sleeve NPT1, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003979

SPK: FQS

Sliding sleeve NPT1, 316L

Sliding sleeve NPT1-1/2, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003981

SPK: FQS

Sliding sleeve NPT1-1/2, 316L

Sliding sleeve 100bar G1, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: 316L.
Usage: FTL51/FTL71.

52003663

SPK: FQS

Sliding sleeve 100bar G1, 316L

Weld-in adapter G3/4 d=50, 316L, 3.1

Flush mount process connection
Usage: FTL20_020_1,
FTL20H_020_GDJ,
FMI51_050_GQJ,
FTI51_050_GQJ,
TMR35_030_AC.
Material: 316L, EHEDG compliant.
Seal: Silicone O-ring.
Inspection cert. EN10204-3.1 material
(316L wetted parts).

52018765

SPK: FQS

Weld-in adapter G3/4 d=50, 316L, 3.1

Sliding sleeve G1-1/2, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003980

SPK: FQS

Sliding sleeve G1-1/2, 316L

Sliding sleeve 100bar NPT1-1/2, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003670**
Material: AlloyC4.
Usage: FTL51/FTL71. **SPK: FQS**

Sliding sleeve 100bar NPT1-1/2, AlloyC4

Weld-in adapter G1, adjustable, 316L

Flush mount process connection.
Usage: FTL260_020_0,
FTL20_020_7, **52001221**
FTL20H_020_GEJ,
FTL330H/330L_020_G, **SPK: FQS**
FTL5x/5xH_020_GW2,
Liquiphant is adjustable.
Material: 316L.
Seal: Silicone O-ring.

Weld-in adapter G1, adjustable, 316L

Sliding sleeve NPT1, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118694**
Material: AlloyC22.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve NPT1, AlloyC22, 3.1

Sliding sleeve G1-1/2, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118693**
Material: AlloyC22.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve G1-1/2, AlloyC22, 3.1

Sliding sleeve NPT1-1/2, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118695**
Material: AlloyC22.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve NPT1-1/2, AlloyC22, 3.1

Sliding sleeve G1, AlloyC22, 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

Material: AlloyC4.

Inspection cert. EN10204-3.1 material

(AlloyC22 wetted parts).

Usage: FTL51/FTL71.

71118691

SPK: FQS

Sliding sleeve G1, AlloyC22, 3.1

Union nut DIN11851, F25, SS

Flush mount weld in adapter 52001047.

Usage: FTL20H_020_UPJ.

52021715

SPK: FQS

Union nut DIN11851, F25, SS

Weld-in adapter Rd52

Flush mount process connection.

Usage: FTL5xH_020_EE2,

FTL20H_020_UPJ,

FTL330H/330L_020_F.

Material: 316L.

52001047

SPK: FQS

Weld-in adapter Rd52

Sliding sleeve 100bar G1-1/2, 316L

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

Material: 316L.

Usage: FTL51/FTL71.

52003665

SPK: FQS

Sliding sleeve 100bar G1-1/2, 316L

Weld-in adapter G3/4 d=55, 316L

Flush mount process connection.
Usage: FTL50/50H_020_GQ2,
TMR35_030_AB.
Material: 316L.
Seal: Silicone O-ring.

52001052

SPK: FQS

Weld-in adapter G3/4 d=55, 316L

Sliding sleeve 100bar NPT1-1/2, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: 316L.
Usage: FTL51/FTL71.

52003669

SPK: FQS

Sliding sleeve 100bar NPT1-1/2, 316L

Weld-in adapter DRD DN50, 316L

Flush mount process connection.
Material: 316L.
Seal: PTFE flat.
Usage: FTL5xH_020_PE2,
PMC71_070_TK, PMP75_070_TK,
FMB70_070_TK, FMD78_080_TK,
FMB50_110_TIJ, PMC51_110_TIJ,
PMP51_110_TIJ, PMP55_110_TIJ.

52002041

SPK: FQS

Weld-in adapter DRD DN50, 316L

Sliding sleeve 40bar G1-1/2, AlloyC4

Switch point adjustment.
Max 40bar process pressure.
:: Disassembly protect. under pressure.
Material: AlloyC4.
Usage: FDL61.

943090-0003

SPK: FQS

Sliding sleeve 40bar G1-1/2, AlloyC4

Sliding sleeve 100bar G1, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: AlloyC4.
Usage: FTL51/FTL71.

52003664

SPK: FQS

Sliding sleeve 100bar G1, AlloyC4

Sliding sleeve 100bar G1-1/2, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003666**
Material: AlloyC4.
Usage: FTL51/FTL71. SPK: FQS

Sliding sleeve 100bar G1-1/2, AlloyC4

Sliding sleeve 100bar NPT1, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003667**
Material: 316L.
Usage: FTL51/FTL71. SPK: FQS

Sliding sleeve 100bar NPT1, 316L

Sliding sleeve 100bar NPT1, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003668**
Material: AlloyC4.
Usage: FTL51/FTL71. SPK: FQS

Sliding sleeve 100bar NPT1, AlloyC4

Weld-in adapter G1, d=60, 316L

Flush mount process connection.
Usage: FTL260_020_0,
FTL20_020_7, **52001051**
FTL20H_020_GEJ,
FTL330H/330L_020_G, SPK: FQS
FTL5x/5xH_020_GW2,
FMI51/52_050_GWJ,
FTI51/52_050_GWJ,
PMP135_020_N,
PTP35_070_BB,
TR44/45_010_EA,
TMR35_030_AD.
Material: 316L.
Seal: Silicone O-ring.

Weld-in adapter G1, d=60, 316L

Sliding sleeve NPT1, 316L 3.1

Switch point adjustment
pressureless condition.

Material: 316L.

52011889

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Usage: FTL51/FTL71.

Sliding sleeve NPT1, 316L 3.1

Sliding sleeve 100bar G1, 316L 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

52011880

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Usage: FTL51/FTL71.

Sliding sleeve 100bar G1, 316L 3.1

Sliding sleeve 100bar NPT1, 316L 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

52011881

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Usage: FTL51/FTL71.

Sliding sleeve 100bar NPT1, 316L 3.1

Weld-in adapter G1, 304

Flush mount process connection G1.

Material: 304.

Seal: O-ring FKM.

917969-1000

Usage: Liquiphant.

SPK: FQS

Weld-in adapter G1, 304

Sliding sleeve 100bar G1-1/2, 316L 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

52011882

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Usage: FTL51/FTL71.

Sliding sleeve 100bar G1-1/2, 316L 3.1

Flange DIN B DN50/PN40, G1, 316Ti

Usage: Process connection G1.
Material: 316Ti.

918143-0000

SPK: FQS

Flange DIN B DN50/PN40, G1, 316Ti

Flange ANSI RF2/150psi G1, 316Ti

Usage: Process connection G1.
Material: 316Ti.

918144-0000

SPK: FQS

Flange ANSI RF2/150psi G1, 316Ti

Weld-in adapter G3/4, d=29, 316L, 3.1

Flush mount process connection.
Usage: FTL20_020_1,
FTL20H_020_GDJ.
W/o flange.
Material: 316L, EHEDG compliant.
Seal: Silicone O-ring.
Inspection cert. EN10204-3.1 material
(316L wetted parts).

52028295

SPK: FQS

Weld-in adapter G3/4, d=29, 316L, 3.1

Flange 92x92 G1, 304

Usage: Process connection G1.
Material: 304.

918158-0000

SPK: FQS

Flange 92x92 G1, 304

Sliding sleeve G1-1/2, D29 316Ti

Switch point adjustment.
Material: 316Ti.
Usage: FDL61.

918161-0000

SPK: FQS

Sliding sleeve G1-1/2, D29 316Ti

Sliding sleeve 40bar NPT1-1/2, AlloyC4

Switch point adjustment.
Max 40bar process pressure.
:: Disassembly protect. under pressure.
Material: AlloyC4.
Usage: FDL61.

943090-0103

SPK: FQS

Sliding sleeve 40bar NPT1-1/2, AlloyC4

Sliding sleeve G1, 316L 3.1

Switch point adjustment
pressureless condition.
Material: 316L.
Inspection cert. EN10204-3.1 material
(316L wetted parts).
Usage: FTL51/FTL71.

52011888

SPK: FQS

Sliding sleeve G1, 316L 3.1

Protection cover, F6/F10

Material: PA.

942262-0000

SPK: FQS

Protection cover, F6/F10

Sliding sleeve G1-1/2, 316L 3.1

Switch point adjustment
pressureless condition.
Material: 316L.
Inspection cert. EN10204-3.1 material
(316L wetted parts).
Usage: FTL51/FTL71.

52011890

SPK: FQS

Sliding sleeve G1-1/2, 316L 3.1

Weld-in adapter Rd52, 316L 3.1

Flush mount process connection.

Usage: FTL20H_020_UPJ,
FTL5xH_020_EE2.**52006909**

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Weld-in adapter Rd52, 316L 3.1

Sliding sleeve 40bar G1-1/2, 316Ti

Switch point adjustment.

Max 40bar process pressure.

:: Disassembly protect. under pressure.

943090-0001

Material: 316Ti.

Usage: FDL61.

SPK: FQS

Sliding sleeve 40bar G1-1/2, 316Ti

Sliding sleeve NPT1-1/2, 316L 3.1Switch point adjustment
pressureless condition.

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).**52011891**

Usage: FTL51/FTL71.

SPK: FQS

Sliding sleeve NPT1-1/2, 316L 3.1

Weld-in adapter G1, d=60, 316L, 3.1

Flush mount process connection.

Usage: FTL260_020_0,

FTL20H_020_GEJ,

FTL5x/5xH_020_GW2/GWJ,

FMI51/52_050_GWJ,

FTI51/52_050_GWJ,

PMP135_020_N,

PTP35_070_BB,

TR44/45_010_EA,

TMR35_030_AD.

Material: 316L.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).**52011896**

SPK: FQS

Weld-in adapter G1, d=60, 316L, 3.1

Sliding sleeve 40bar NPT1-1/2, 316Ti

Switch point adjustment.
Max 40bar process pressure.
:: Disassembly protect. under pressure. **943090-0101**
Material: 316Ti.
Usage: FDL61. **SPK: FQS**

Sliding sleeve 40bar NPT1-1/2, 316Ti

Weld-in adapter G3/4, 316L 3.1

Flush mount process connection.
Usage: FTL50/50H_020_GQ2,
TMR35_030_AB. **52011897**
Material: 316L.
Seal: Silicone O-ring. **SPK: FQS**
Inspection cert. EN10204-3.1 material
(316L wetted parts).

Weld-in adapter G3/4, 316L 3.1

Weld-in adapter G1, adjustable,316L 3.1

Flush mount process connection.
Usage: FTL260_020_0,
FTL20H_020_GEJ, **52011898**
FTL5x/5xH_020_GW2,
Liquiphant is adjustable. **SPK: FQS**
Material: 316L.
Seal: Silicone O-ring.
Inspection cert. EN10204-3.1 material
(316L wetted parts).

Weld-in adapter G1, adjustable,316L 3.1

Weld-in adapter DRD DN50, 316L 3.1

Flush mount process connection.
Material: 316L.
Seal: PTFE flat. **52011899**
Inspection cert. EN10204-3.1 material
(316L wetted parts). **SPK: FQS**
Usage: FTL5xH_020_PE2,
PMC71_070_TK, PMP75_070_TK,
FMB70_070_TK, FMD78_080_TK,
FMB50_110_TIJ, PMC51_110_TIJ,
PMP51_110_TIJ, PMP55_110_TIJ.

Weld-in adapter DRD DN50, 316L 3.1

Sliding sleeve 100bar NPT1-1/2, 316L 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

52011883

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

SPK: FQS

Usage: FTL51/FTL71.

Sliding sleeve 100bar NPT1-1/2, 316L 3.1

Nivotester FTL325N

Level instrument, point level.

Input: 1/3-channel, 2-wire NAMUR.

FTL325N-**52008682**

SPK: FQU



Nivotester FTL325N

Approval:

- F ATEX II (1)GD (EEx ia) IIC, WHG, IECEx (Ex ia) IIC
- H ATEX II (1)GD (EEx ia) IIC,WHG,SIL,IECEx (Ex ia) IIC (Liquiphant M/Liquiphant S)
- G ATEX II 3(1)G Ex nC/ A (ia) IIC T4, SIL IECEx Zone 2
- O FM IS Cl.I,II,III Div.1 Gr.A-G
- P FM IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- S CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2
- T CSA IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- M NEPSI (Ex ia) IIC
- N NEPSI (Ex ia) IIC, SIL (Liquiphant M/Liquiphant S)

Housing:

- 1 Rail mounting, 22.5mm, 1-channel
- 3 Rail mounting, 45mm, 3-channel
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- E 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm
- 3 3x SPDT level + 1x SPST alarm
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Cable 4x0,34, box M12, 316L,LED,90o,L=5m

M12 socket for plug + integrated LED.

5m cable PVC, 316L lock.

Especially for sanitary applications.

52018763

Usage: device + switch output.

SPK: FQU

Cable 4x0,34, box M12, 316L,LED,90o,L=5m

Housing Field, R4 182x180x165, 5xM20, PC

Protection housing Minitec.
Synthetic housing + transparent cover.
Protection IP66.
4x22.5mm / 2x45mm.

52010132

SPK: FQU

Housing Field, R4 182x180x165, 5xM20, PC

Cable 4x0,34, box M12, 316L, 90o, L=5m

M12x1 plug.
5m cable PVC, 316L lock.
Especially for sanitary applications.

52024216

SPK: FQU

Cable 4x0,34, box M12, 316L, 90o, L=5m

Liquiphant T FTL260

Point level switch, vibronic.
Application: liquids.
:: Liquid independent.
:: Approved in millions of application.
:: Not effected by build up.
Stainless Steel electronic housing.
:: Corrosion resistant.
:: Small mounting space d=40mm.
:: Status switch visible from outside.
Sensor: 130mm/5inch; 316Ti.

FTL260-**942202-9000**

SPK: FQU



Liquiphant T FTL260

Approval:

- 0 Non-hazardous area
- 1 Non-hazardous area, WHG
- 3 CSA General Purpose
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 0 Thread ISO228 G1, 316Ti
- 1 Thread ANSI NPT1, 316Ti
- 2 Thread EN10226 R1, 316Ti
- 3 Float flange, 92mmx92mm, SS

Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-55VDC

Cable Entry:

- 0 Plug ISO4400 Pg11, IP65/67
- 2 Cable 5m, IP66/68 NEMA6P
- 4 Plug ISO4400 NPT1/2, NEMA4X
- 9 Special version, TSP-no. to be spec.

Nivotester FTL375N

Level instrument, point level.
Input: 1/2/3-channel, 2-wire NAMUR.

**FTL375N-
52008681**

SPK: FQU



Nivotester FTL375N

Approval:

F ATEX II (1)GD (EEx ia) IIC

Housing:

- 1 Racksyst 4HP
- 9 Special version, TSP-no. to be spec.

Power Supply:

- E 20-30VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPDT alarm
- 2 2x SPDT level + 1x SPDT alarm
- 3 3x SPDT level
- 9 Special version, TSP-no. to be spec.

Cable 4x0,34, box M12,Cu Sn/Ni,90o,L=5m

M12 socket for plug.
5m cable PVC, Cu Sn/Ni lock.

52010285

SPK: FQU

Cable 4x0,34, box M12,Cu Sn/Ni,90o,L=5m

Liquiphant T FTL20

Measurement: Point Level, Vibronic.
Application: liquids.
:: Suitable on narrow mount. condition.
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.

FTL20-

52008741

SPK: FQU



Liquiphant T FTL20

Approval:

- 0 Non-hazardous area, WHG, leakage-detection
- 3 CSA General Purpose, CSA C/US
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 0 Thread ISO228 G1/2, 316L
- 1 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- 6 Thread ISO228 G1, 316L
- 7 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- 2 Thread ANSI NPT1/2, 316L
- 3 Thread ANSI NPT3/4, 316L
- 4 Thread EN10226 R1/2, 316L

- 5 Thread EN10226 R3/4, 316L
- 9 Special version, TSP-no. to be spec.

Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-35VDC
- 3 ASI Bus
- 9 Special version, TSP-no. to be spec.

Application; Cable Entry:

- 0 100oC; plug ISO4400 Pg11, IP65/67
- 4 100oC; plug ISO4400 NPT1/2, IP65
- 5 100oC; plug M12, IP67
- 6 100oC; plug QUICKON, IP65
- B 150oC; plug ISO4400 Pg11, IP65/67
- C 150oC; plug ISO4400 NPT1/2, IP65
- D 150oC; plug M12, IP67
- E 150oC; plug QUICKON, IP65
- 9 Special version, TSP-no. to be spec.

Socket wrench 41AF

Usage: Mounting FTL260/330L/330H.

942667-0000

SPK: FQU

Socket wrench 41AF

Liquiphant T FTL20H

Measurement: Point Level, Vibronic.
Food.
Polished surface.
Application: liquids.
:: Suitable on narrow mount. condition.
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.

FTL20H-

52018579

SPK: FQU

Liquiphant T FTL20H

Approval:

- 0 Non-hazardous area, WHG, leakage-detection
- 3 CSA General Purpose, CSA C/US
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GCJ Thread ISO228 G1/2, 316L
- GDJ Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GEJ Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- RCJ Thread ANSI NPT1/2, 316L
- RDJ Thread ANSI NPT3/4, 316L
- RRJ Thread EN10226 R1/2, 316L
- RSJ Thread EN10226 R3/4, 316L
- TCJ Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- UPJ Flush mount, 316L, install > Accessory weld-in adapter 1" 52001047
- MNJ DIN11851 DN25 PN40 slotted-nut, 316L
- MPJ DIN11851 DN32 PN40 slotted-nut, 316L
- MQJ DIN11851 DN40 PN40 slotted-nut, 316L
- YY9 Special version, TSP-no. to be spec.



Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-35VDC
- 3 ASI Bus
- 9 Special version, TSP-no. to be spec.

Application; Cable Entry:

- B 150oC; plug ISO4400 Pg11, IP65/67
- C 150oC; plug ISO4400 NPT1/2, IP65
- D 150oC; plug M12, IP67
- E 150oC; plug QUICKON, IP65
- F 150oC; plug M12, IP69K
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Socket wrench 32AF

Usage: FTL20/FTL20H.

52010156

SPK: FQU

Socket wrench 32AF

Cover F16 (KT73) transparent PA12

Cover transparent.

Usage: Polyester housing F16.

943461-0001

SPK: FQW

Cover F16 (KT73) transparent PA12

Display FHX40

Remote display + local operation.

Usage: Micropilot M, Prosonic M,
Levelflex M, Gammapilot M.

Aluminium field housing IP65/IP67
NEMA4X.

4-line LC-display.

:: Menu driven plain text operation.

:: Easy setup.

:: User language selectable.

:: Envelope curve display on site.

FHX40-

52013873

SPK: FZR

Display FHX40

Approval:

- A Non-hazardous area
- 2 ATEX II 2G Ex ia IIC T6
- 3 ATEX II 2D Ex ia IIIC T80oC
- G IECEx zone1 Ex ia IIC T6/T5
- S FM IS Cl.I Div.1 Gr.A-D, zone 0
- U CSA IS Cl.I Div.1 Gr.A-D, zone 0

- N CSA General Purpose
- K TIIS Ex ia IIC T6
- C NEPSI Ex ia IIC T6/T5
- Y Special version, TSP-no. to be spec.

Cable:

- 1 20m/65ft (> HART)
- 5 20m/65ft (> PROFIBUS PA / FOUNDATION Fieldbus)
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- B Mounting bracket, pipe 1 1/2"
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Mounting bracket FHX40 1" / 2" pipe

Usage: FHX40.

52013874

SPK: FZR

Mounting bracket FHX40 1" / 2" pipe

HART Loop Converter HMX50

consists of:

- 1x HART input (intrinsically safe)
- 3x 4-20mA current output
- 2x programmable SPDT relays
- menue guided operation
- nominal supply voltage 24VDC

71063562

SPK: FZR

HART Loop Converter HMX50

Screw in flange FAX50**FAX50-****71094020**

SPK: FZS

Screw in flange FAX50

Diameter; Material:

- XIG UNI flange 2"/DN50/50, PP max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- XIF UNI flange 2"/DN50/50, PVDF max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- XIJ UNI flange 2"/DN50/50, 316L max 4bar abs/58psia, suitable for 2" 150lbs/DN50 PN16/10K 50
- XJG UNI flange 3"/DN80/80, PP max 4bar abs/58psia, suitable for 3" 150lbs/DN80 PN16/10K 80
- XJF UNI flange 3"/DN80/80, PVDF max 4bar abs/58psia, suitable for 3" 150lbs/DN80

	PN16/10K 80
XJJ	UNI flange 3"/DN80/80, 316L max 4bar abs/58psia, suitable for 3" 150lbs/DN80 PN16/10K 80
XKG	UNI flange 4"/DN100/100, PP max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
XKF	UNI flange 4"/DN100/100, PVDF max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
XKJ	UNI flange 4"/DN100/100, 316L max 4bar abs/58psia, suitable for 4" 150lbs/DN100 PN16/10K 100
XLG	UNI flange 6"/DN150/150, PP max 4bar abs/58psia, suitable for 6" 150lbs/DN150 PN16/10K 150
XLF	UNI flange 6"/DN150/150, PVDF max 4bar abs/58psia, suitable for 6" 150lbs/DN150 PN16/10K 150
XLJ	UNI flange 6"/DN150/150, 316L max 4bar abs/58psia, suitable for 6" 150lbs/DN150 PN16/10K 150
XMG	UNI flange DN200/200, PP max 4bar abs/58psia, suitable for DN200 PN16/10K 200
XNG	UNI flange DN250/250, PP max 4bar abs/58psia, suitable for DN250 PN16/10K 250
BR1	DN50 PN10/16 A, steel flange EN1092-1
BS1	DN80 PN10/16 A, steel flange EN1092-1
BT1	DN100 PN10/16 A, steel flange EN1092-1
JF1	2" 150lbs FF, steel flange ANSI B16.5
JG1	3" 150lbs FF, steel flange ANSI B16.5
JH1	4" 150lbs FF, steel flange ANSI B16.5
JK2	8" 150lbs FF, PP max 3bar abs/44psia flange ANSI B16.5
YYY	Special version, TSP-no. to be spec.

Sensor Connection:

A	Thread ISO228 G3/4
B	Thread ISO228 G1
C	Thread ISO228 G1-1/2
D	Thread ISO228 G2
E	Thread ANSI NPT3/4
F	Thread ANSI NPT1
G	Thread ANSI NPT1-1/2
H	Thread ANSI NPT2
Y	Special version, TSP-no. to be spec.

Weld-in adapter G1, d=53, 316L, 3.1

Flush mount process connection.

Usage: FTL260_020_0,

FTL20H_020_GEJ,

71093129

FTL5x/5xH_020_GW2/GWJ,

FMI51/52_050_GWJ,

SPK: FZS

FTI51/52_050_GWJ,

PMP135_020_N,

PTP35_070_BB.

Material: 316L.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

Weld-in adapter G1, d=53, 316L, 3.1

Protection cover F13/F17/F18

Usage: Soliphant T, Soliphant M,

Liquiphant M, Liquiphant S,

Solicap M, Solicap S, Liquicap M,

PMC51, PMP51/55

71040497

SPK: FZS

Protection cover F13/F17/F18

Protection cover F16 housing

Usage: FTL5x, FTL7x, FTM2x, FTM5x,
FMI21, FMI5x, FTI5x, FTI7x, FTW3x,
FDR56, FQR56, FTR20.

71127760

SPK: FZS

Protection cover F16 housing
