

Prosonic S FDU91F

Measurement: 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 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 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 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.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 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 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 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.

FMU41-
52010287
 SPK: FJC



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.

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.

FMU43-

52010288

SPK: FJC



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:

- 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 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 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 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

FMU44-
71026878
SPK: FJC



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

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.

FMU90-
52022820
SPK: FJK



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
- 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.

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 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

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 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, 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

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

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 1000mm, SS, 1.5"-sensor

Mounting 1-1/2"-sensor.

Material: 316Ti.

Usage: Installation brackets.

52014134

SPK: FJS

Sensor support 1000mm, SS, 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

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, SS, 2"-sensor

Mounting 2"-sensor.

Material: 316Ti.

Usage: Installation brackets.

52014138

SPK: FJS

Sensor support 1000mm, SS, 2"-sensor

Mounting bracket FAU20

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

942666-0000

SPK: FJS

Mounting bracket FAU20

Weather protection cover FMT131

Material: 316Ti, G1/2.

942046-0000

SPK: FJS

Weather protection cover FMT131

Installation bracket 250x400x120 G1-1/2

Material: 316Ti.
Usage: Prosonic T, Prosonic M.

942669-0000

SPK: FJS

Installation bracket 250x400x120 G1-1/2

Wall bracket for sensor support, SS

Material: 316Ti.

919792-0001

SPK: FJS

Wall bracket for sensor support, SS

Wall bracket for sensor support, ST

Material: Steel zinc coated.

919792-0000

SPK: FJS

Wall bracket for sensor support, ST

Bracket 1400mm, SS

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

919791-0003

SPK: FJS

Bracket 1400mm, SS

Installation bracket 250x400x120 G2

Material: 316Ti.
Usage: Prosonic T, Prosonic M.

942669-0001

SPK: FJS

Installation bracket 250x400x120 G2

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

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.

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 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

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.

Protection cover FMU30

71127762

SPK: FJS

Protection cover FMU30

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

Mounting bracket Prosonic S

Material: 316L.
Usage: FDU9x.

71093130

SPK: FJS

Mounting bracket Prosonic S

Protection cover FMU90/95 fieldhousing

Material: 316Ti.

52024477

SPK: FJS

Protection cover FMU90/95 fieldhousing

Bracket 700mm, ST

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

919791-0000

SPK: FJS

Bracket 700mm, ST

Mounting plate FMU90/95 fieldhousing

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

52024478

SPK: FJS

Mounting plate FMU90/95 fieldhousing

Bracket 700mm, SS

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

919791-0001

SPK: FJS

Bracket 700mm, SS

Bracket 1400mm, ST

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

919791-0002

SPK: FJS

Bracket 1400mm, ST

Adaption plate ext.displayFMU86x>FMU9x

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

52027441

SPK: FJS

Adaption plate ext.displayFMU86x>FMU9x

Protection cover FDU90/91

Material: PVDF.

52025686

SPK: FJS

Protection cover FDU90/91

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

Flooding protection tube FDU90

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

71091216

SPK: FJS

Flooding protection tube FDU90

Adapter cable FMU9x

Connection service tool RS232(52013675)>
Prosonic S

52026736

SPK: FJW

Adapter cable FMU9x
