

| Selection and Ordering data | | Order No. | |
|--|---|-----------------------|----|
| SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 32/160 (MWP 464/2320 psi) | | 7 MF 4 4 3 3 - | |
| | | | |
| Measuring cell filling | Measuring cell cleaning | | |
| Silicone oil | Standard | ▶ | 1 |
| Inert liquid ¹⁾ | Grease-free | ▶ | 3 |
| Span | | | |
| PN 32 (MWP 464 psi) | | | |
| 1 ... 20 mbar ²⁾ | (0.4015 ... 8.03 inH ₂ O) | ▶ | B |
| PN 160 (MWP 2320 psi) | | | |
| 1 ... 60 mbar | (0.4015 ... 24.09 inH ₂ O) | ▶ | C |
| 2.5 ... 250 mbar | (1.004 ... 100.4 inH ₂ O) | ▶ | D |
| 6 ... 600 mbar | (2.409 ... 240.9 inH ₂ O) | ▶ | E |
| 16 ... 1600 mbar | (6.424 ... 642.4 inH ₂ O) | ▶ | F |
| 50 ... 5000 mbar | (20.08 ... 2008 inH ₂ O) | ▶ | G |
| 0.3 ... 30 bar | (4.35 ... 435 psi) | ▶ | H |
| Wetted parts materials | | | |
| (stainless steel process flanges) | | | |
| Seal diaphragm | Parts of measuring cell | | |
| Stainless steel | Stainless steel | ▶ | A |
| Hastelloy | Stainless steel | F) | B |
| Hastelloy | Hastelloy | F) | C |
| Tantalum ³⁾ | Tantalum | | E |
| Monel ³⁾ | Monel | F) | H |
| Gold ³⁾ | Gold | | L |
| Version for diaphragm seal ^{4) 5)} | | | Y |
| Process connection | | | |
| Female thread 1/4-18 NPT with flange connection | | | |
| • Sealing screw opposite process connection | | | |
| - Mounting thread M10 to DIN 19213 | | ▶ | 0 |
| - Mounting thread 7/16-20 UNF to EN 61518 | | | 2 |
| • Vent on side of process flange ²⁾ | | | |
| - Mounting thread M10 to DIN 19213 | | | 4 |
| - Mounting thread 7/16-20 UNF to EN 61518 | | | 6 |
| Non-wetted parts materials | | | |
| Process flange screws | Electronics housing | | |
| Stainless steel | Die-cast aluminium | ▶ | 2 |
| Stainless steel | Stainless steel precision casting ⁶⁾ | | 3 |
| Version | | | |
| • Standard version | | | 1 |
| • International version, English label inscriptions, documentation in 5 languages on CD | | ▶ | 2 |
| Explosion protection | | | |
| • Without | | | A |
| • With ATEX, Type of protection: | | | |
| - "Intrinsic safety (EEx ia)" | | | B |
| - "Explosion-proof (EEx d)" ⁷⁾ | | F) | D |
| - "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d)" ⁸⁾ | | F) | P |
| - "Ex nA/nL (zone 2)" | | | E |
| - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D)" ⁸⁾ | | ▶ | R |
| • With FM + CSA, Type of protection: | | | |
| - "Intrinsic safety and explosion-proof (is + xp)" ⁷⁾ | | F) | NC |
| Electrical connection / cable entry | | | |
| • Screwed gland Pg 13.5 ⁹⁾ | | | A |
| • Screwed gland M20x1.5 | | ▶ | B |
| • Screwed gland 1/2-14 NPT | | | C |
| • Han 7D plug (plastic housing) incl. mating connector ¹⁰⁾ | | F) | D |
| • M12 connectors (metal) ¹⁰⁾ | | | F |

| Selection and Ordering data | | Order No. | |
|--|---|-----------------------|---|
| SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 32/160 (MWP 464/2320 psi) | | 7 MF 4 4 3 3 - | |
| | | | |
| Display | | | |
| • without (digital indicator hidden, setting: mA) | ▶ | | 1 |
| • With visible digital indication | | | 6 |
| • With customer-specific digital indication (setting as specified, Order code "Y21" or required) | | | 7 |
| ▶ Available ex stock | | | |
| Power supply units see "SITRANS I power supply units and isolation amplifiers". | | | |
| Factory-mounting of shut-off valves and valve manifolds see page 2/133. | | | |
| Included in delivery of the device: | | | |
| • Brief instructions (Leporello) | | | |
| • CD-ROM with detailed documentation | | | |
| • Sealing plug(s) or sealing screw(s) for the process flanges(s) | | | |
| 1) For oxygen application, add Order code E10. | | | |
| 2) Not suitable for connection of remote seal. Position of the top vent valve in the process flanges (see dimensional drawing). | | | |
| 3) Only together with max. spans 250, 1600, 5000 and 30000 mbar (100.4, 240.9, 2008 inH ₂ O and 435 psi) | | | |
| 4) When the manufacture's certificate M (calibration certificate) has to be ordered for transmitters with diaphragm seals, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here. | | | |
| 5) Whe the acceptance test certificate 3.1 for transmitters with direct-connected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals. | | | |
| 6) Not together with Electrical connection „Screwed gland Pg 13.5" and „Han7D plug“. | | | |
| 7) Without cable gland, with blanking plug | | | |
| 8) With enclosed cable gland EEx ia and blanking plug | | | |
| 9) Not together with type of protection "Explosion-proof" and and type of protection "Ex nA". | | | |
| 10) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof" | | | |
| F) Subject to export regulations AL: 91999, ECCN: N. | | | |

| Selection and Ordering data | | Order No. | |
|---|-----------------------------------|-----------------------|----|
| SITRANS P pressure transmitters for differential pressure and flow PN 32/160 (MWP 464/2320 psi) | | | |
| DS III PA series (PROFIBUS PA) | | 7 MF 4 4 3 4 - | |
| DS III FF series (FOUNDATION Fieldbus) | | 7 MF 4 4 3 5 - | |
| | | ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ | |
| Measuring cell filling | Measuring cell cleaning | | |
| Silicone oil | Standard | 1 | |
| Inert liquid ¹⁾ | Grease-free | 3 | |
| Nominal measuring range | | | |
| PN 32 (MWP 464 psi) | | | |
| 20 mbar ²⁾ | (8.03 inH ₂ O) | B | |
| PN 160 (MWP 2320 psi) | | | |
| 60 mbar | (24.09 inH ₂ O) | C | |
| 250 mbar | (100.4 inH ₂ O) | D | |
| 600 mbar | (240.9 inH ₂ O) | E | |
| 1600 mbar | (642.4 inH ₂ O) | F | |
| 5 bar | (2008 inH ₂ O) | G | |
| 30 bar | (435 psi) | H | |
| Wetted parts materials | | | |
| (stainless steel process flanges) | | | |
| Seal diaphragm | Parts of measuring cell | | |
| Stainless steel | Stainless steel | A | |
| Hastelloy | Stainless steel | F) B | |
| Hastelloy | Hastelloy | F) C | |
| Tantalum ³⁾ | Tantalum | E | |
| Monel ²⁾ | Monel | F) H | |
| Gold ²⁾ | Gold | L | |
| Version as diaphragm seal ^{4) 5)} | | Y | |
| Process connection | | | |
| Female thread 1/4-18 NPT with flange connection | | | |
| • Sealing screw opposite process connection | | | |
| - Mounting thread M10 to DIN 19213 | | 0 | |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 2 | |
| • Venting on side of process flanges ²⁾ | | | |
| - Mounting thread M10 to DIN 19213 | | 4 | |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 6 | |
| Non-wetted parts materials | | | |
| Process flange screws | Electronics housing | | |
| Stainless steel | Die-cast aluminium | 2 | |
| Stainless steel | Stainless steel precision casting | 3 | |
| Version | | | |
| • Standard version | | 1 | |
| • International version, English label inscriptions, documentation in 5 languages on CD | | 2 | |
| Explosion protection | | | |
| • Without | | | A |
| • With CENELEC, Type of protection: | | | |
| - "Intrinsic safety (EEx ia)" | | | B |
| - "Explosion-proof (EEx d)" ⁶⁾ | | F) | D |
| - "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d)" ⁷⁾ | | F) | P |
| - "n (Zone 2)" (planned) | | | E |
| - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D)" ⁷⁾ (not for DS III FF) | | F) | R |
| • With FM + CSA, Type of protection: | | | |
| - "Intrinsic safety and explosion-proof (is + xp)" ⁶⁾ | | F) | NC |

| Selection and Ordering data | | Order No. | |
|--|--|-----------------------|---|
| SITRANS P pressure transmitters for differential pressure and flow PN 32/160 (MWP 464/2320 psi) | | | |
| DS III PA series (PROFIBUS PA) | | 7 MF 4 4 3 4 - | |
| DS III FF series (FOUNDATION Fieldbus) | | 7 MF 4 4 3 5 - | |
| | | ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ | |
| Electrical connection / cable entry | | | |
| • Screwed gland M20x1.5 | | | B |
| • Screwed gland 1/2-14 NPT | | | C |
| • M12 connectors (metal) ⁸⁾ | | | F |
| Display | | | |
| • Without (digital display hidden) | | | 1 |
| • With visible digital indication | | | 6 |
| • With customer-specific digital indication (setting as specified, Order code "Y21" or required) | | | 7 |
| Included in delivery of the device: | | | |
| • Brief instructions (Leporello) | | | |
| • CD-ROM with detailed documentation | | | |
| • Sealing plug(s) or sealing screw(s) for the process flanges(s) | | | |
| 1) For oxygen application, add Order code E10. | | | |
| 2) Not suitable for connection of remote seal. Position of the top vent valve in the process flanges (see dimensional drawing). | | | |
| 3) Only together with max. spans 250, 1600, 5000 and 30000 mbar (100.4, 240.9, 2008 inH ₂ O and 435 psi). | | | |
| 4) When the manufacture's certificate M (calibration certificate) has to be ordered for transmitters with diaphragm seals, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here. | | | |
| 5) Whe the acceptance test certificate 3.1 for transmitters with direct-connected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals. | | | |
| 6) Without cable gland, with blanking plug. | | | |
| 7) With enclosed cable gland EEx ia and blanking plug. | | | |
| 8) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof". | | | |
| F) Subject to export regulations AL: 91999, ECCN: N. | | | |

| Selection and Ordering data | | Order code | | | Selection and Ordering data | | Order code | | | | |
|--|--|-------------------|------|----|-----------------------------|--|------------|-------------------|------|----|----|
| Further designs | | | HART | PA | FF | Further designs | | | HART | PA | FF |
| Add "-Z" to Order No. and specify Order code. | | | | | | Add "-Z" to Order No. and specify Order code. | | | | | |
| Pressure transmitter with mounting bracket made of: | | | | | | Oxygen application | | E10 | ✓ | ✓ | ✓ |
| • Steel | | A01 | ✓ | ✓ | ✓ | (max. 160 bar (2320 psi) with oxygen measurement and inert liquid) | | | | | |
| • Stainless steel | | A02 | ✓ | ✓ | ✓ | Explosion-proof "Intrinsic safety" to INMETRO (Brazil) | | E25 | ✓ | ✓ | ✓ |
| O-rings for process flanges | | | | | | (only for transmitter 7MF4...-.....-B..) | | | | | |
| (instead of FPM (Viton)) | | | | | | Explosion-proof "Intrinsic safety" to NEPSI (China) | | E55 | ✓ | ✓ | ✓ |
| • PTFE (Teflon) | | A20 | ✓ | ✓ | ✓ | (only for transmitter 7MF4...-.....-B..) | | | | | |
| • FEP (with silicone core, approved for food) | | A21 | ✓ | ✓ | ✓ | Explosion protection "Explosion-proof" to NEPSI (China) | | E56 | ✓ | ✓ | ✓ |
| • FFPM (Kalrez, compound 4079) | | A22 | ✓ | ✓ | ✓ | (only for transmitter 7MF4...-.....-D..) | | | | | |
| • NBR (Buna N) | | A23 | ✓ | ✓ | ✓ | Explosion-proof "Zone 2" to NEPSI (China) | | E57 | ✓ | ✓ | ✓ |
| Plug | | | | | | (only for transmitter 7MF4...-.....-E..) | | | | | |
| • Han 7D (metal, gray) | | A30 | ✓ | | | Interchanging of process connection side | | H01 | ✓ | ✓ | ✓ |
| • Han 8U (instead of Han 7D) | | A31 | ✓ | | | Vent on side for gas measurements | | H02 | ✓ | ✓ | ✓ |
| Sealing screws | | A40 | ✓ | ✓ | ✓ | Stainless steel process flanges for vertical differential pressure lines | | H03 | ✓ | ✓ | ✓ |
| ¼-18 NPT, with valve in mat. of process flanges | | | | | | (not together with K01, K02 and K04) ³⁾ | | | | | |
| Cable sockets for M12 connectors (metal) | | A50 | ✓ | ✓ | ✓ | Process flange | | | | | |
| Rating plate inscription (instead of German) | | | | | | • Hastelloy | | K01 ^{F)} | ✓ | ✓ | ✓ |
| • English | | B11 | ✓ | ✓ | ✓ | • Monel | | K02 ^{F)} | ✓ | ✓ | ✓ |
| • French | | B12 | ✓ | ✓ | ✓ | • Stainless steel with PVDF insert | | K04 | ✓ | ✓ | ✓ |
| • Spanish | | B13 | ✓ | ✓ | ✓ | max. PN 10 (MWP 145 psi), | | | | | |
| • Italian | | B14 | ✓ | ✓ | ✓ | max. temperature of medium 90 °C (194 °F) | | | | | |
| English rating plate (calibration certificate) | | B21 | ✓ | ✓ | ✓ | For ½-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible | | | | | |
| Pressure units in inH ₂ O or psi | | | | | | | | | | | |
| Manufacturer's test certificate M¹⁾ | | C11 | ✓ | ✓ | ✓ | | | | | | |
| To DIN 55350, Part 18 and to ISO 8402 | | | | | | | | | | | |
| Acceptance test certificate²⁾ | | C12 | ✓ | ✓ | ✓ | | | | | | |
| To EN 10 204-3.1 | | | | | | | | | | | |
| Factory certificate | | C14 | ✓ | ✓ | ✓ | | | | | | |
| To EN 10 204-2.2 | | | | | | | | | | | |
| "Functional Safety (SIL)" certificate | | C20 | ✓ | | | | | | | | |
| "PROFIsafe" certificate and protocol | | C21 | | ✓ | | | | | | | |
| Setting of upper limit of output signal to 22.0 mA | | D05 | ✓ | | | | | | | | |
| Manufacturer's declaration acc. to NACE | | D07 | ✓ | ✓ | ✓ | | | | | | |
| (only together with seal diaphragm made of Hastelloy and stainless steel) | | | | | | | | | | | |
| Type of protection IP68 | | D12 | ✓ | ✓ | ✓ | | | | | | |
| (not together with 7D/ Han 8U plug, cable gland Pg 13.5) | | | | | | | | | | | |
| Digital indicator alongside the input keys | | D27 | ✓ | ✓ | ✓ | | | | | | |
| (only together with the devices 7MF4433-.....-2-.A.6 or -.A.7-Z, Y21 or Y22 + Y01) | | | | | | | | | | | |
| Process flange screws made of Monel | | D34 | ✓ | ✓ | ✓ | | | | | | |
| (max. nominal pressure PN20) | | | | | | | | | | | |
| Supplied with oval flange set | | D37 ^{F)} | ✓ | ✓ | ✓ | | | | | | |
| (2 items), PTFE packings and stainless steel screws in thread of process flanges | | | | | | | | | | | |
| Use in or on zone 1D/2D | | E01 | ✓ | ✓ | ✓ | | | | | | |
| (only together with type of protection "Intrinsic safety (EEx ia)") | | | | | | | | | | | |
| Use on zone 0 | | E02 | ✓ | ✓ | ✓ | | | | | | |
| (only together with type of protection "Intrinsic safety (EEx ia)") | | | | | | | | | | | |
| TÜV approval to AD/TRD | | E06 | ✓ | | | | | | | | |
| (only together with type of protection "Intrinsic safety (EEx ia)") | | | | | | | | | | | |
| Overfilling safety device for flammable and non-flammable liquids | | E08 | ✓ | ✓ | ✓ | | | | | | |
| (max. PN 32 (MVWP 464 psi), basic device with type of protection "Intrinsic safety (EEx ia)", to WHG and VbF, not together with measuring cell filling "inert liquid") | | | | | | | | | | | |

✓ = available

1) When the manufacture's certificate M (calibration certificate) has to be ordered for transmitters with diaphragm seals, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
2) Whe the acceptance test certificate 3.1 for transmitters with direct-connected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals.
3) Not suitable for connection of remote seal
F) Subject to export regulations AL: 9I999, ECCN: N.

Selection and Ordering data

Order code

Additional data

Add "-Z" to Order No. and specify Order code.

Measuring range to be set

Specify in plain text:

- With linear characteristic (max. 5 digits):
Y01: ... up to ... mbar, bar, kPa, MPa, psi
- With square-rooted characteristic (max. 5 digits):
Y01: ... up to ... mbar, bar, kPa, MPa, psi

Measuring point number (TAG No.)

Max. 16 char., specify in plain text: Y15:

Measuring point text

Max. 27 char., specify in plain text: Y16:

Entry of HART address (TAG)

Max. 8 char., specify in plain text: Y17:

Setting of pressure indicator in pressure units

Specify in plain text (standard setting: mA):

Y21: mbar, bar, kPa, MPa, psi, ...

Note:

The following pressure units can be selected:
bar, mbar, mm H₂O¹⁾, inH₂O¹⁾, ftH₂O¹⁾,
mmHG, inHG, psi, Pa, kPa, MPa, g/cm²,
kg/cm², Torr, ATM oder %
) ref. temperature 20 °C

Setting of pressure indicator in non-pressure units

Specify in plain text:

Y22: up to l/min, m³/h, m, USgpm, ...
(specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)

Preset bus address

Specify in plain text: Y25:

| | HART | PA | FF |
|--------------------------------------|------|----|----|
| Y01 | ✓ | | |
| Y02 | ✓ | | |
| Y15 | ✓ | ✓ | ✓ |
| Y16 | ✓ | ✓ | ✓ |
| Y17 | ✓ | | |
| Y21 | ✓ | ✓ | ✓ |
| Y22¹⁾ + Y01 or Y02 | ✓ | | |
| Y25 | | ✓ | |

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset

✓ = available

¹⁾ Not together with over-filling safety device for flammable and non-flammable liquids (Order code "E08")

| Selection and Ordering data | | Order No. | |
|--|---|-----------------------|--|
| SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 420 (MWP 6092 psi) | | 7 MF 4 5 3 3 - | |
| | | | |
| Measuring cell filling | Measuring cell cleaning | | |
| Silicone oil | Standard | 1 | |
| Span | | | |
| 2.5 ... 250 mbar | (1.004 ... 100.4 inH ₂ O) | D | |
| 6 ... 600 mbar | (2.409 ... 240.9 inH ₂ O) | E | |
| 16 ... 1600 mbar | (6.424 ... 642.4 inH ₂ O) | F | |
| 50 ... 5000 mbar | (20.08 ... 2008 inH ₂ O) | G | |
| 0.3 ... 30 bar | (4.35 ... 435 psi) | H | |
| Wetted parts materials | | | |
| (stainless steel process flanges) | | | |
| Seal diaphragm | Parts of measuring cell | | |
| Stainless steel | Stainless steel | A | |
| Hastelloy | Stainless steel | F) | |
| Gold ¹⁾ | Gold | L | |
| Process connection | | | |
| Female thread 1/4-18 NPT with flange connection | | | |
| • Sealing screw opposite process connection | | | |
| - Mounting thread M12 to DIN 19213 | | 1 | |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 3 | |
| • Venting on side of process flanges. Position of the top vent valve in the process flanges (see dimensional drawing). | | | |
| - Mounting thread M12 to DIN 19213 | | 5 | |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 7 | |
| Non-wetted parts materials | | | |
| Process flange screws | Electronics housing | | |
| Stainless steel | Die-cast aluminium | 2 | |
| Stainless steel | Stainless steel precision casting ²⁾ | 3 | |
| Version | | | |
| • Standard version | | 1 | |
| • International version, English label inscriptions, documentation in 5 languages on CD | | 2 | |
| Explosion protection | | | |
| • Without | | A | |
| • With ATEX, Type of protection: | | | |
| - "Intrinsic safety (EEx ia)" | | B | |
| - "Explosion-proof (EEx d) ³⁾ | | D | |
| - "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d) ⁴⁾ | | P | |
| - "Ex nA/nL (zone 2)" | | E | |
| - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D) ⁴⁾ | | R | |
| • With FM + CSA, Type of protection: | | | |
| - "Intrinsic safety and explosion-proof (is + xp) ³⁾ , max PN 360 | | N C | |
| Electrical connection / cable entry | | | |
| • Screwed gland Pg 13.5 ⁵⁾ | | A | |
| • Screwed gland M20x1.5 | | B | |
| • Screwed gland 1/2-14 NPT | | C | |
| • Han 7D plug (plastic housing) incl. mating connector ⁵⁾ | | D | |
| • M12 connectors (metal) ⁶⁾ | | F | |

| Selection and Ordering data | Order No. |
|---|---------------------------|
| SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 420 (MWP 6092 psi) | 7 MF 4 5 3 3 - |

- 1) Not together with max. span 600 mbar (240.9 inH₂O)
 - 2) Not together with Electrical connection „Screwed gland Pg 13.5" and „Han7D plug".
 - 3) Without cable gland, with blanking plug
 - 4) With enclosed cable gland EEx ia and blanking plug
 - 5) Not together with type of protection "Explosion-proof" and and type of protection "Ex nA".
 - 6) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof".
- F) Subject to export regulations AL: 91999, ECCN: N.

| Selection and Ordering data | | Order No. |
|---|-----------------------------------|--------------------------------|
| SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 420 (MWP 6092 psi) | | |
| DS III PA (PROFIBUS PA) series | | 7 M F 4 5 3 4 - |
| DS III FF series (FOUNDATION Fieldbus) | | 7 M F 4 5 3 5 - |
| | | 1 ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ |
| Nominal measuring range | | |
| 250 mbar | (100.4 inH ₂ O) | D |
| 600 mbar | (240.9 inH ₂ O) | E |
| 1600 mbar | (642.4 inH ₂ O) | F |
| 5 bar | (2008 inH ₂ O) | G |
| 30 bar | (435 psi) | H |
| Wetted parts materials | | |
| (stainless steel process flanges) | | |
| Seal diaphragm | Parts of measuring cell | |
| Stainless steel | Stainless steel | A |
| Hastelloy | Stainless steel | B |
| Gold ¹⁾ | Gold | L |
| Process connection | | |
| Female thread ¼-18 NPT with flange connection | | |
| • Sealing screw opposite process connection | | |
| - Mounting thread M12 to DIN 19213 | | 1 |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 3 |
| • Venting on side of process flanges. Position of the top vent valve in the process flanges (see dimensional drawing). | | |
| - Mounting thread M12 to DIN 19213 | | 5 |
| - Mounting thread 7/16-20 UNF to EN 61518 | | 7 |
| Non-wetted parts materials | | |
| Process flange screws | Electronics housing | |
| Stainless steel | Die-cast aluminium | 2 |
| Stainless steel | Stainless steel precision casting | 3 |
| Version | | |
| • Standard version | | 1 |
| • International version, English label inscriptions, documentation in 5 languages on CD | | 2 |
| Explosion protection | | |
| • Without | | A |
| • With CENELEC, Type of protection: | | |
| - "Intrinsic safety (EEx ia)" | | B |
| - "Explosion-proof (EEx d) ²⁾ " | | D |
| - "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d) ³⁾ " | | P |
| - "Ex nA/nL (zone 2)" | | E |
| - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D) ³⁾ (not for DS III FF)" | | R |
| • With FM + CSA, Type of protection: | | |
| - "Intrinsic safety and explosion-proof (is + xp) ²⁾ , max PN 360 | | NC |
| Electrical connection / cable entry | | |
| • Screwed gland M20x1.5 | | B |
| • Screwed gland ½-14 NPT | | C |
| • Plug M12 incl. mating connector ⁴⁾ | | F |
| Display | | |
| • Without (digital display hidden) | | 1 |
| • With visible digital indicator | | 6 |
| • With customer-specific digital indicator (setting as specified, Order code "Y21" or required) | | 7 |

Factory-mounting of shut-off valves and valve manifolds see page 2/133.

- Included in delivery of the device:
- Brief instructions (Leporello)
 - CD-ROM with detailed documentation
 - Sealing plug(s) or sealing screw(s) for the process flanges(s)

- 1) Not together with max. span 600 mbar (240.9 inH₂O)
 - 2) Without cable gland, with blanking plug.
 - 3) With enclosed cable gland EEx ia and blanking plug.
 - 4) Not together with types of protection "Explosion-proof" and "Intrinsic safety and explosion-proof"
- F) Subject to export regulations AL: 91999, ECCN: N.

| Selection and Ordering data | | Order code | | | Selection and Ordering data | | Order code | | | | |
|--|---------|------------|------|----|--|---|---|-----|------|----|----|
| Further designs | | | HART | PA | FF | Further designs | | | HART | PA | FF |
| Add "-Z" to Order No. and specify Order code. | | | | | | Add "-Z" to Order No. and specify Order code. | | | | | |
| Pressure transmitter with mounting bracket made of: | | | | | | Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4...-.....-D..) | E56 | ✓ | ✓ | ✓ | |
| | • Steel | A01 | ✓ | ✓ | ✓ | | Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4...-.....-E..) | E57 | ✓ | ✓ | ✓ |
| • Stainless steel | A02 | ✓ | ✓ | ✓ | | | | | | | |
| O-rings for process flanges (instead of FPM (Viton)) | | | | | | Interchanging of process connection side | H01 | ✓ | ✓ | ✓ | |
| • PTFE (Teflon) | A20 | ✓ | ✓ | ✓ | Stainless steel process flanges for vertical differential pressure lines | | H03 | ✓ | ✓ | ✓ | |
| • FEP (with silicone core, approved for food) | A21 | ✓ | ✓ | ✓ | | | | | | | |
| • FFPM (Kalrez, compound 4079) | A22 | ✓ | ✓ | ✓ | Additional data | | | | | | |
| • NBR (Buna N) | A23 | ✓ | ✓ | ✓ | Add "-Z" to Order No. and specify Order code. | | | | | | |
| Plug | | | | | Measuring range to be set Specify in plain text: • With linear characteristic (max. 5 digits): Y01: ... up to ... mbar, bar, kPa, MPa, psi • With square-rooted characteristic (max. 5 digits): Y01: ... up to ... mbar, bar, kPa, MPa, psi | | | | | | |
| • Han 7D (metal, gray) | A30 | ✓ | | | | Y01 | ✓ | ✓ | | | |
| • Han 8U (instead of Han 7D) | A31 | ✓ | | | Y02 | ✓ | ✓ | | | | |
| Sealing screws | A40 | ✓ | ✓ | ✓ | | Y15 | ✓ | ✓ | ✓ | | |
| ¼-18 NPT, with valve in material of process flanges | | | | | | Y16 | ✓ | ✓ | ✓ | | |
| Cable sockets for M12 connectors (metal) | A50 | ✓ | ✓ | ✓ | | Y17 | ✓ | | | | |
| Rating plate inscription (instead of German) | | | | | | Y21 | ✓ | ✓ | ✓ | | |
| • English | B11 | ✓ | ✓ | ✓ | Measuring point number (TAG No.) Max. 16 characters, specify in plain text: Y15: | | | | | | |
| • French | B12 | ✓ | ✓ | ✓ | | | | | | | |
| • Spanish | B13 | ✓ | ✓ | ✓ | | | | | | | |
| • Italian | B14 | ✓ | ✓ | ✓ | | | | | | | |
| English rating plate | B21 | ✓ | ✓ | ✓ | | | | | | | |
| Pressure units in inH ₂ O or psi | | | | | | | | | | | |
| Manufacturer's test certificate M (calibration certificate) | C11 | ✓ | ✓ | ✓ | | | | | | | |
| To DIN 55350, Part 18 and to ISO 8402 | | | | | | | | | | | |
| Acceptance test certificate | C12 | ✓ | ✓ | ✓ | | | | | | | |
| To EN 10204-3.1 | | | | | | | | | | | |
| Factory certificate | C14 | ✓ | ✓ | ✓ | | | | | | | |
| To EN 10204-2.2 | | | | | | | | | | | |
| "Functional Safety (SIL)" certificate | C20 | ✓ | | | | | | | | | |
| "PROFIsafe" certificate and protocol | C21 | | ✓ | | | | | | | | |
| Setting of upper limit of output signal to 22.0 mA | D05 | ✓ | | | | | | | | | |
| Manufacturer's declaration acc. to NACE (only together with seal diaphragm made of Hastelloy and stainless steel) | D07 | ✓ | ✓ | ✓ | | | | | | | |
| Type of protection IP68 (not together with Han 7D / Han 8U plug, Pg 13.5 screwed gland) | D12 | ✓ | ✓ | ✓ | | | | | | | |
| Digital indicator alongside the input keys (only together with the devices 7MF4533-...-2-.A..6 or -.A..7-Z, Y21 or Y22 + Y01) | D27 | ✓ | ✓ | ✓ | | | | | | | |
| Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety (EEx ia)") | E01 | ✓ | ✓ | ✓ | | | | | | | |
| Use on zone 0 (only together with type of protection "Intrinsic safety (EEx ia)") | E02 | ✓ | ✓ | ✓ | | | | | | | |
| Explosion-proof "Intrinsic safety" to INMETRO (Brazil) (only for transmitter 7MF4...-.....-B..) | E25 | ✓ | ✓ | ✓ | | | | | | | |
| Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4...-.....-B..) | E55 | ✓ | ✓ | ✓ | | | | | | | |

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset
✓ = available

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset
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