

SITRANS P Compact pressure transmitters for pressure and absolute pressure with diaphragm flush at front

2-wire system
 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Diaphragm seal with quick-release clamp

Milk pipe union to DIN 11851 with slotted union nut

- DN 25
- DN 32
- DN 40
- DN 50
- DN 65

Milk pipe union to DIN 11851 with threaded socket

- DN 25
- DN 32
- DN 40
- DN 50
- DN 65

Clamp connection to DIN 32676

- DN 25
- DN 40
- DN 50

Clamp connection to ISO 2852

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

IDF standard with slotted union nut

- 1 inch
- 1½ inch
- 2 inch

IDF standard with threaded socket

- 1 inch
- 1½ inch
- 2 inch

SMS standard with slotted union nut

- 1 inch
- 1½ inch
- 2 inch

SMS standard with threaded socket

- 1 inch
- 1½ inch
- 2 inch

DRD flange, without welding-type flange

- DN 50, PN 40

Varivent connection (Tuchenhausen)

- D = 50, for Varivent housing DN 25 and 1 inch
- D = 68, for Varivent housing DN 40 ... DN 125 and 1½ ... 6 inch

Special version (add Order code and plain text)

Filling liquid

- Vegetable oil
- Medicinal white oil
- Food oil, FDA-listed
- Special version

Output signal

- 4 ... 20 mA
- Special version (add Order code and plain text)

| Order No. | Ord. code |
|-----------|-----------|
| 7MF8010- | |
| 1 | |
| AD | |
| AE | |
| AF | |
| AG | |
| AH | |
| BD | |
| BE | |
| BF | |
| BG | |
| BH | |
| CD | |
| CF | |
| CG | |
| DM | |
| DN | |
| DP | |
| DQ | |
| EM | |
| EN | |
| EP | |
| FM | |
| FN | |
| FP | |
| GM | |
| GN | |
| GP | |
| HM | |
| HN | |
| HP | |
| JH | |
| KF | |
| KL | |
| ZA | J 1 Y |
| 1 | |
| 2 | |
| 3 | |
| 9 | L 1 Y |
| 1 | |
| 9 | M 1 Y |

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2-wire system
 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Diaphragm seal with aseptic connection

Aseptic screwed gland to DIN 11864-1, form A, with slotted union nut

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

Aseptic screwed gland to DIN 11864-1, form A with threaded socket

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

Aseptic screwed NEUMO with slotted union nut¹⁾

- DN 25
- DN 32
- DN 40
- DN 50

Aseptic screwed NEUMO with threaded socket¹⁾

- DN 25
- DN 32
- DN 40
- DN 50

Aseptic screwed NEUMO with clamp connection, form R¹⁾

- DN 25
- DN 32
- DN 40
- DN 50

Aseptic screwed NEUMO with clamp connection, form V¹⁾

- DN 25
- DN 32
- DN 40
- DN 50

Male thread DIN 3852 Form A

- G½", min. meas. span 1.6 bar (23.2 psi)
- G¾", min. meas. span 1 bar (14.5 psi)
- G1", min. meas. span 0.4 bar (5.8 psi)
- G1½", min. meas. span 0.25 bar (3.63 psi)
- G2", min. meas. span 0.16 bar (2.32 psi)

Special version (add Order code and plain text)

Filling liquid

- Vegetable oil
- Medicinal white oil
- Food oil, FDA-listed
- Special version

Output signal

- 4 ... 20 mA
- Special version (add Order code and plain text)

¹⁾ Please specify as well:
 Connections for pipes: R01, R02 or R03, see table "Further designs" on next page

| Order No. | Ord. code |
|-----------|-----------|
| 7MF8010- | |
| 1 | |
| PM | |
| PN | |
| PP | |
| PQ | |
| QM | |
| QN | |
| QP | |
| QQ | |
| RD | |
| RE | |
| RF | |
| RG | |
| SD | |
| SE | |
| SF | |
| SG | |
| TD | |
| TE | |
| TF | |
| TG | |
| UD | |
| UE | |
| UF | |
| UG | |
| XA | |
| XB | |
| XC | |
| XD | |
| XE | |
| ZA | J 1 Y |
| 1 | |
| 2 | |
| 3 | |
| 9 | L 1 Y |
| 1 | |
| 9 | M 1 Y |

Selection and Ordering data Order No. Ord. code

SITRANS P Compact pressure transmitters for pressure and absolute pressure with diaphragm flush at front

7 MF 8 0 1 0 -

2-wire system
Process temperature up to 140 °C (284 °F)
Accuracy: 0.2 % of full-scale value
Output 4 ... 20 mA



Housing design (stainless steel mat. No. 1.4404/316L) / electr. connection

- 1 Housing with angled plug to DIN 43650, IP65
- 2 Housing with round plug M12, IP65, union nut made of polyamide
- 3 Housing with round plug M12, IP65, union nut made of stainless steel
- 4 Stainless steel field housing (small) with cable gland, IP65
- 5 Stainless steel field housing (small) with cable gland, IP67
Internal ventilation for measuring ranges < 10 bar (< 145 psi)

Measured range Overload pressure

- 0 ... 160 mbar (0 ... 2.32 psi) 2 bar (29 psi) **BB**
- 0 ... 250 mbar (0 ... 3.63 psi) 2 bar (29 psi) **BC**
- 0 ... 400 mbar (0 ... 5.8 psi) 6 bar (87 psi) **BD**
- 0 ... 600 mbar (0 ... 8.7 psi) 6 bar (87 psi) **BE**
- 0 ... 1 bar (0 ... 14.5 psi) 10 bar (145 psi) **CA**
- 0 ... 1.6 bar (0 ... 23.2 psi) 10 bar (145 psi) **CB**
- 0 ... 2.5 bar (0 ... 36.3 psi) 16 bar (232 psi) **CC**
- 0 ... 4 bar (0 ... 58 psi) 16 bar (232 psi) **CD**
- 0 ... 6 bar (0 ... 87 psi) 30 bar (435 psi) **CE**
- 0 ... 10 bar (0 ... 145 psi) 30 bar (435 psi) **DA**
- 0 ... 16 bar (0 ... 232 psi) 50 bar (725 psi) **DB**
- 0 ... 25 bar (0 ... 363 psi) 50 bar (725 psi) **DC**
- 0 ... 40 bar (0 ... 580 psi) 70 bar (1015 psi) **DD**
- 160 ... 0 mbar (-2.32 ... 0 psi) 2 bar (29 psi) **EB**
- 250 ... 0 mbar (-3.73 ... 0 psi) 2 bar (29 psi) **EC**
- 400 ... 0 mbar (-5.8 ... 0 psi) 6 bar (87 psi) **ED**
- 600 ... 0 mbar (-8.7 ... 0 psi) 6 bar (87 psi) **EE**
- 1 ... 0 bar (-14.5 ... 0 psi) 10 bar (145 psi) **FA**
- 1 ... 0.6 bar (-14.5 ... 8.7 psi) 10 bar (145 psi) **FB**
- 1 ... 1.5 bar (-14.5 ... 21.8 psi) 16 bar (232 psi) **FC**
- 1 ... 3 bar (-14.5 ... 43.5 psi) 16 bar (232 psi) **FD**
- 1 ... 5 bar (-14.5 ... 72.5 psi) 30 bar (435 psi) **FE**

Selection and Ordering data Order No. Ord. code

SITRANS P Compact pressure transmitters for pressure and absolute pressure with diaphragm flush at front

7 MF 8 0 1 0 -

2-wire system
Process temperature up to 140 °C (284 °F)
Accuracy: 0.2 % of full-scale value
Output 4 ... 20 mA



Measured range Overload pressure

- (continued)
- 1 ... +9 bar (-14.5 ... +130.5 psi) 30 bar (435 psi) **GA**
 - 1 ... +15 bar (-14.5 ... +217.6 psi) 50 bar (725 psi) **GB**
 - 0 ... 1 bar a (0 ... 14.5 psia) 10 bar a (145 psia) F) **HA**
 - 0 ... 1.6 bar a (0 ... 23.2 psia) 10 bar a (145 psia) F) **HB**
 - 0 ... 2.5 bar a (0 ... 36.3 psia) 16 bar a (232 psia) F) **HC**
 - 0 ... 4 bar a (0 ... 58 psia) 16 bar a (232 psia) F) **HD**
 - 0 ... 6 bar a (0 ... 87 psia) 30 bar a (435 psia) F) **HE**
 - 0 ... 10 bar a (0 ... 145 psia) 30 bar a (435 psia) F) **JA**
 - Special version (add Order code and plain text) F) **ZA P 1 Y**

Explosion protection

without
with, to ATEX 100a, II 2 G, EEx ib IIC T6

- 1
- 2

Further designs

Please add "-Z" to Order No. and specify Order code

Order code

Hygiene version

Roughness of process connection:
Foil $R_a < 0.8 \mu\text{m}$ ($3.15 \cdot 10^{-8}$ inch);
Welded seams $R_a < 1.5 \mu\text{m}$ ($5.9 \cdot 10^{-8}$ inch)

P01

Integral cooling element

Process temperature max. 200 °C (392 °F) instead of 140 °C (284 °F)

K01

Connections for pipe

- Pipes to DIN 11850 **R01**
- ISO pipes to DIN 2463 **R02**
- Pipes to O. D. Tubing "BS 4825 Part 1" **R03**



Certificates

- Quality inspection certificate (Factory calibration) to IEC 60770-2 **C11**
- Inspection certificate to EN 10204-3.1 Use of FDA-listed remote seal filling liquids certified by test report to EN 10204-2.2 **C12**
C17
- Roughness depth measurement R_a certified by test report to EN 10204-3.1 **C18**
- Certification to EHEDG for clamp-on seals with aseptic screwed gland to DIN 11864 **C19**

F) Subject to export regulations AL: 91999, ECCN: N.

Selection and Ordering data Order No. Ord. code

SITRANS P Compact pressure transmitters for pressure and absolute pressure with clamp-on remote seal 7MF8010 -

2-wire system 2  - 
 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Clamp-on remote seal (screwed gland at both ends) with quick-release clamps

Milk pipe union to DIN 11851 with threaded socket

- DN 25 AD
- DN 32 AE
- DN 40 AF
- DN 50 AG
- DN 65 AH

Clamp connection to DIN 32676

- DN 25 CD
- DN 32 CE
- DN 40 CF
- DN 50 CG
- DN 65 CH

Clamp connection to ISO 2852¹⁾

- 1 inch DM
- 1½ inch DN
- 2 inch DP
- 2½ inch DQ

Special version (add Order code and plain text) ZA J 1 Y

Filling liquid

Vegetable oil 1

Medicinal white oil 2

Food oil, FDA-listed 3

Special version (add Order code and plain text) 9 L 1 Y

Output signal



4 ... 20 mA 1

Special version (add Order code and plain text) 9 M 1 Y

¹⁾ Please note the internal diameter of the pipe. Please specify pipe classes (see "Further designs")

Selection and Ordering data Order No. Ord. code

SITRANS P Compact pressure transmitters for pressure and absolute pressure with clamp-on remote seal 7MF8010 -

2-wire system 2  - 
 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Clamp-on seal with aseptic connection

Aseptic screwed gland to DIN 11864-1, form A with threaded socket

- 1 inch QM
- 1½ inch QN
- 2 inch QP

Aseptic screwed NEUMO with threaded socket¹⁾

- DN 25 SD
- DN 32 SE
- DN 40 SF
- DN 50 SG
- DN 65 SH

Aseptic screwed NEUMO with clamp connection, form R¹⁾

- DN 25 TD
- DN 32 TE
- DN 40 TF
- DN 50 TG

Aseptic screwed gland SÜDMO with threaded socket W 501

- 1 inch VM
- 1½ inch VN
- 2 inch VP

Aseptic screwed gland SÜDMO with clamp connection W 601

- 1 inch WM
- 1½ inch WN
- 2 inch WP

Special version (add Order code and plain text) ZA J 1 Y

Filling liquid

Vegetable oil 1

Medicinal white oil 2

Food oil, FDA-listed 3

Special version (add Order code and plain text) 9 L 1 Y

Output signal

4 ... 20 mA 1

Special version (add Order code and plain text) 9 M 1 Y

¹⁾ Please specify as well: Connections for pipes: R01, R02 or R03, see table "Further designs" on next page

Selection and Ordering data Order No. Ord. code

SITRANS P Compact pressure transmitters for pressure and absolute pressure with clamp-on remote seal
7 MF 8 0 1 0 -

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 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Housing design (stainless steel mat. No. 1.4404/316L) / electr. connection

- 1 Housing with angled plug to DIN 43650, IP65, union nut made of polyamide
- 2 Housing with round plug M12, IP65, union nut made of polyamide
- 3 Housing with round plug M12, IP65, union nut made of stainless steel
- 4 Stainless steel field housing (small) with cable gland, IP65
- 5 Stainless steel field housing (small) with cable gland, IP67
 Internal ventilation for measuring ranges < 10 bar (< 145 psi)

| Measured range | Overload pressure | |
|--|----------------------|----|
| 0 ... 160 mbar (0 ... 2.32 psi) | 2 bar (29 psi) | BB |
| 0 ... 250 mbar (0 ... 3.63 psi) | 2 bar (29 psi) | BC |
| 0 ... 400 mbar (0 ... 5.8 psi) | 6 bar (87 psi) | BD |
| 0 ... 600 mbar (0 ... 8.7 psi) | 6 bar (87 psi) | BE |
| 0 ... 1 bar (0 ... 14.5 psi) | 10 bar (145 psi) | CA |
| 0 ... 1.6 bar (0 ... 23.2 psi) | 10 bar (145 psi) | CB |
| 0 ... 2.5 bar (0 ... 36.3 psi) | 16 bar (232 psi) | CC |
| 0 ... 4 bar (0 ... 58 psi) | 16 bar (232 psi) | CD |
| 0 ... 6 bar (0 ... 87 psi) | 30 bar (435 psi) | CE |
| 0 ... 10 bar (0 ... 145 psi) | 30 bar (435 psi) | DA |
| 0 ... 16 bar (0 ... 232 psi) | 50 bar (725 psi) | DB |
| 0 ... 25 bar (0 ... 363 psi) | 50 bar (725 psi) | DC |
| 0 ... 40 bar (0 ... 580 psi) | 70 bar (1015 psi) | DD |
| -160 ... 0 mbar (-2.32 ... 0 psi) | 2 bar (29 psi) | EB |
| -250 ... 0 bar (-3.73 ... 0 psi) | 2 bar (29 psi) | EC |
| -400 ... 0 bar (-5.8 ... 0 psi) | 6 bar (87 psi) | ED |
| -600 ... 0 bar (-8.7 ... 0 psi) | 6 bar (87 psi) | EE |
| -1 ... 0 bar (-14.5 ... 0 psi) | 10 bar (145 psi) | FA |
| -1 ... 0.6 bar (-14.5 ... 8.7 psi) | 10 bar (145 psi) | FB |
| -1 ... 1.5 bar (-14.5 ... 21.8 psi) | 16 bar (232 psi) | FC |
| -1 ... 3 bar (-14.5 ... 43.5 psi) | 16 bar (232 psi) | FD |
| -1 ... 5 bar (-14.5 ... 72.5 psi) | 30 bar (435 psi) | FE |

Selection and Ordering data Order No. Ord. code

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7 MF 8 0 1 0 -

2-wire system
 Process temperature up to 140 °C (284 °F)
 Accuracy: 0.2 % of full-scale value
 Output 4 ... 20 mA

Measured range Overload pressure
 (continued)

| | | | |
|--|------------------------|----|----------|
| -1 ... 9 bar (-14.5 ... 130.5 psi) | 30 bar (435 psi) | | GA |
| -1 ... 15 bar (-14.5 ... 217.6 psi) | 50 bar (725 psi) | | GB |
| 0 ... 1 bar a (0 ... 14.5 psia) | 10 bar a (145 psia) | F) | HA |
| 0 ... 1.6 bar a (0 ... 23.2 psia) | 10 bar a (145 psia) | F) | HB |
| 0 ... 2.5 bar a (0 ... 36.3 psia) | 16 bar a (232 psia) | F) | HC |
| 0 ... 4 bar a (0 ... 58 psia) | 16 bar a (232 psia) | F) | HD |
| 0 ... 6 bar a (0 ... 87 psia) | 30 bar a (435 psia) | F) | HE |
| 0 ... 10 bar a (0 ... 145 psia) | 30 bar a (435 psia) | F) | JA |
| Special version (add Order code and plain text) | | F) | ZA P 1 Y |

Explosion protection
 without
 with, to ATEX 100a, II 2 G, EEx ib IIC T6

Further designs
 Please add "-Z" to Order No. and specify Order code

Hygiene version
 Roughness of process connection:
 Foil $R_a < 0.8 \mu\text{m}$ ($3.15 \cdot 10^{-8}$ inch);
 Welded seams $R_a < 1.5 \mu\text{m}$
 ($5.9 \cdot 10^{-8}$ inch)

Integral cooling element
 Process temperature max. 200 °C
 (392 °F) instead of 140 °C (284 °F)

Connections for pipe
 Pipes to DIN 11850
 ISO pipes to ISO 2463
 Pipes to O. D. Tubing "BS 4825 Part 1"

Certificates

Quality inspection certificate (Five-step factory calibration) to IEC 60770-2

Inspection certificate to EN 10204-3.1
 Use of FDA-listed remote seal filling liquids certified by test report to EN 10204-2.2

Roughness depth measurement R_a certified by test report to EN 10204-3.1

Certification to EHEDG for clamp-on seals with aseptic screwed gland to DIN 11864

F) Subject to export regulations AL: 9I999, ECCN: N.