

Selection and Ordering data

Order No. Ord. code

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

7MF8010 -

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

1

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

 AD
 AE
 AF
 AG
 AH

Milk pipe union to DIN 11851 with threaded socket

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

 BD
 BE
 BF
 BG
 BH

Clamp connection to DIN 32676

- DN 25
- DN 40
- DN 50

 CD
 CF
 CG

Clamp connection to ISO 2852

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

 DM
 DN
 DP
 DQ

IDF standard with slotted union nut

- 1 inch
- 1½ inch
- 2 inch

 EM
 EN
 EP

IDF standard with threaded socket

- 1 inch
- 1½ inch
- 2 inch

 FM
 FN
 FP

SMS standard with slotted union nut

- 1 inch
- 1½ inch
- 2 inch

 GM
 GN
 GP

SMS standard with threaded socket

- 1 inch
- 1½ inch
- 2 inch

 HM
 HN
 HP

DRD flange, without welding-type flange

- DN 50, PN 40

JH

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

 KF
 KL

Special version (add Order code and plain text)

ZA J 1 Y

Filling liquid

Vegetable oil
 medicinal white oil
 Food oil, FDA-listed
 Special version (add Order code and plain text)

1
 2
 3
 9 L 1 Y

Output signal

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

1
 9 M 1 Y

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 Output 4 ... 20 mA

1

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

 PM
 PN
 PP
 PQ

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

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

 QM
 QN
 QP
 QQ

 Aseptic screwed NEUMO with slotted union nut¹⁾

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

 RD
 RE
 RF
 RG

 Aseptic screwed NEUMO with threaded socket¹⁾

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

 SD
 SE
 SF
 SG

 Aseptic screwed NEUMO with clamp connection, form R¹⁾

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

 TD
 TE
 TF
 TG

 Aseptic screwed NEUMO with clamp connection, form V¹⁾

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

 UD
 UE
 UF
 UG

Special version (add Order code and plain text)

ZA J 1 Y

Filling liquid

Vegetable oil
 medicinal white oil
 Food oil, FDA-listed
 Special version (add Order code and plain text)

1
 2
 3
 9 L 1 Y

Output signal

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

1
 9 M 1 Y

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

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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

Housing with angled plug to DIN 43650, IP65

1

Housing with round plug M12, IP65, union nut made of polyamide

2

Housing with round plug M12, IP65, union nut made of stainless steel

3

Stainless steel field housing (small) with cable gland, IP65

4

Stainless steel field housing (small) with cable gland, IP67

5

Internal ventilation for measuring ranges < 10 bar (< 145 psi)

Measured range Overload pressure

0 ... 160 mbar g (0 ... 2.32 psi g)	2 bar g (29 psi g)	BB
0 ... 250 mbar g (0 ... 3.63 psi g)	2 bar g (29 psi g)	BC
0 ... 400 mbar g (0 ... 5.8 psi g)	6 bar g (87 psi g)	BD
0 ... 600 mbar g (0 ... 8.7 psi g)	6 bar g (87 psi g)	BE
0 ... 1 bar g (0 ... 14.5 psi g)	10 bar g (145 psi g)	CA
0 ... 1.6 bar g (0 ... 23.2 psi g)	10 bar g (145 psi g)	CB
0 ... 2.5 bar g (0 ... 36.3 psi g)	16 bar g (232 psi g)	CC
0 ... 4 bar g (0 ... 58 psi g)	16 bar g (232 psi g)	CD
0 ... 6 bar g (0 ... 87 psi g)	30 bar g (435 psi g)	CE
0 ... 10 bar g (0 ... 145 psi g)	30 bar g (435 psi g)	DA
0 ... 16 bar g (0 ... 232 psi g)	50 bar g (725 psi g)	DB
0 ... 25 bar g (0 ... 363 psi g)	50 bar g (725 psi g)	DC
0 ... 40 bar g (0 ... 580 psi g)	70 bar g (1015 psi g)	DD
-160 ... 0 mbar g (-2.32 ... 0 psi g)	2 bar g (29 psi g)	EB
-250 ... 0 bar g (-3.73 ... 0 psi g)	2 bar g (29 psi g)	EC
-400 ... 0 bar g (-5.8 ... 0 psi g)	6 bar g (87 psi g)	ED
-600 ... 0 bar g (-8.7 ... 0 psi g)	6 bar g (87 psi g)	EE
-1 ... 0 bar g (-14.5 ... 0 psi g)	10 bar g (145 psi g)	FA
-1 ... 0.6 bar g (-14.5 ... 8.7 psi g)	10 bar g (145 psi g)	FB
-1 ... 1.5 bar g (-14.5 ... 21.8 psi g)	16 bar g (232 psi g)	FC
-1 ... 3 bar g (-14.5 ... 43.5 psi g)	16 bar g (232 psi g)	FD
-1 ... 5 bar g (-14.5 ... 72.5 psi g)	30 bar g (435 psi g)	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 g (-14.5 ... +130.5 psi g)	30 bar g (435 psi g)	GA
-1 ... +15 bar g (-14.5 ... +217.6 psi g)	50 bar g (725 psi g)	GB
0 ... 1 bar a (0 ... 14.5 psi a)	10 bar a (145 psi a)	F) HA
0 ... 1.6 bar a (0 ... 23.2 psi a)	10 bar a (145 psi a)	F) HB
0 ... 2.5 bar a (0 ... 36.3 psi a)	16 bar a (232 psi a)	F) HC
0 ... 4 bar a (0 ... 58 psi a)	16 bar a (232 psi a)	F) HD
0 ... 6 bar a (0 ... 87 psi a)	30 bar a (435 psi a)	F) HE
0 ... 10 bar a (0 ... 145 psi a)	30 bar a (435 psi a)	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

Order code

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)

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
 ISO pipes to DIN 2463
 Pipes to O. D. Tubing "BS 4825 Part 1"

R01
R02
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 Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of full-scale value Output 4 ... 20 mA	2	
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 2852 ¹⁾		
• 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 Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of full-scale value Output 4 ... 20 mA	2	
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 socket ¹⁾		
• DN 25	SD	
• DN 32	SE	
• DN 40	SF	
• DN 50	SG	
• DN 65	SH	
Aseptic screwed NEUMO with clamp connection, form R ¹⁾		
• 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	7MF8010-	
2-wire system	2	
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	
Housing with angled plug to DIN 43650, IP65, union nut made of polyamide	1
Housing with round plug M12, IP65, union nut made of polyamide	2
Housing with round plug M12, IP65, union nut made of stainless steel	3
Stainless steel field housing (small) with cable gland, IP65	4
Stainless steel field housing (small) with cable gland, IP67	5
Internal ventilation for measuring ranges < 10 bar (< 145 psi)	

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

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		

Measured range	Overload pressure		
(continued)			
-1 ... 9 bar g (-14.5 ... 130.5 psi g)	30 bar g (435 psi g)		GA
-1 ... 15 bar g (-14.5 ... 217.6 psi g)	50 bar g (725 psi g)		GB
0 ... 1 bar a (0 ... 14.5 psi a)	10 bar a (145 psi a)	F)	HA
0 ... 1.6 bar a (0 ... 23.2 psi a)	10 bar a (145 psi a)	F)	HB
0 ... 2.5 bar a (0 ... 36.3 psi a)	16 bar a (232 psi a)	F)	HC
0 ... 4 bar a (0 ... 58 psi a)	16 bar a (232 psi a)	F)	HD
0 ... 6 bar a (0 ... 87 psi a)	30 bar a (435 psi a)	F)	HE
0 ... 10 bar a (0 ... 145 psi a)	30 bar a (435 psi a)	F)	JA
Special version (add Order code and plain text)		F)	ZA P1Y

Explosion protection	
without	1
with, to ATEX 100a, II 2 G, EEx ib IIC T6	2

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

Hygiene version	P01
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	K01
Process temperature max. 200 °C (392 °F) instead of 140 °C (284 °F)	

Connections for pipe	R01 R02 R03
Pipes to DIN 11850	
ISO pipes to ISO 2463	
Pipes to O. D. Tubing "BS 4825 Part 1"	

Certificates	C11 C12 C17 C18 C19
Quality inspection certificate (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.