Transmitters for basic requirements

SITRANS P Compact for gauge and absolute pressure

Overview



The SITRANS P Compact pressure transmitter is designed for the special requirements of the food, pharmaceutical and biotechnology industries.

The use of high-grade materials guarantees compliance with hygiene regulations.

Particular value has been placed on a high surface quality. It is therefore possible, for example, to guarantee roughness values down to $R_a=0.4~\mu m$ (1.57 \cdot 10 $^{-5}$ inch) in the wetted area (welded seam area $R_a<0.8~\mu m$ (3.15 \cdot 10 $^{-5}$ inch)). The system can be electropolished in addition.

A further important feature is the hygiene-based design of the process connection by means of various aseptic connections.

The completely welded stainless steel housing can be designed up to degree of protection IP67.

Using appropriate thermal decouplers, the SITRANS P Compact pressure transmitter can be used for process temperatures up to 200 °C (392 °F).

Benefits

- Measuring ranges from 0 to 160 mbar (0 to 2.32 psi) to 0 to 40 bar (0 to 580 psi)
- Linearity error including hysteresis < +0.2 % of full-scale value
- Piezo-resistive measurement system, vacuum-proof and overload-proof
- Hygiene-based design according to EHEDG, FDA and GMP recommendations
- Material and surface quality according to hygiene requirements
- Wetted parts made of stainless steel; completely welded
- Signal output 4 to 20 mA (0 to 20 mA as option)
- Stainless steel housing with degree of protection IP65 (IP67 as option)
- Process temperature up to 200 °C (392 °F)
- Explosion protection II 2G Ex [ib] IIC T6 to ATEX
- · Easy and safe to clean

Application

The SITRANS P Compact pressure transmitter is designed for the special requirements of the food, pharmaceutical and biotechnology industries.

The use of high-grade materials guarantees compliance with hygiene regulations.

The SITRANS P Compact pressure transmitter is available in many versions. Exact adaptation of the pressure transmitter to conditions at the place of use is thus possible

Design

The electronics is potted to protect it against moisture, corrosive atmospheres and vibration.

Notes on operating the pressure transmitter

Compensation of internal atmospheric pressure

Compensation of the internal atmospheric pressure of the SITRANS P Compact pressure transmitters is performed as follows:

- in the plug versions by means of the screwed gland (IP65)
- in the field housings by means of an integral sintered filter (IP65) or a vented cable (IP67)
- in versions with cable outlet by means of a vented cable (IP67)

In the absolute pressure range there is no need for compensation with respect to atmospheric pressure.

Note: These degrees of protection are only achieved under the following conditions:

- if the pressure transmitter is installed correctly
- if the screwed glands are securely tightened
- if the cable diameters agree with the nominal diameters of the gaskets in the housing

Note: The integral EMC measures are only effective if the earth connection is made correctly.

CE marking

The CE marking of the pressure transmitter certifies compliance with the guidelines of the European Council (9/336/EC), the EMC law (13.11.1992), as well as the applicable generic standards.

Interference-free operation in systems and plants is achieved only if the specifications for shielding, earthing, cable routing and electrical isolation are observed during installation and assembly.

Hazardous areas

Note: Electrical equipment in hazardous areas must only be installed and operated by trained personnel.

Modifications to units and connections result in cancellation of the explosion protection and guarantee.

With intrinsically-safe circuits, make sure that equipotential bonding exists throughout the complete cabling inside and outside of the hazardous area. The limits specified in the ATEX approval must be observed.

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Function

The process pressure acts on a piezo-resistive semiconductor measuring bridge through a remote seal and a transmission liquid. The pressure transmitter converts the pressure values into a load-independent current.

A compensation network makes the output signal largely independent of the ambient temperature. As a result of a specially adapted remote seal connection with minimized volume, the influence of the process temperature on the output signal is greatly reduced compared to a conventional screw connection.

The pressure transmitters can be powered with a non-regulated DC voltage of 10 to 30 V. Output signals common to measuring technology are available.

Technical specifications

Pressure transmitters for food, ph	armaceuticals and biotechnolog
Mode of operation	
Measuring principle	piezo-resistive
Input	
Measured variable	gauge or absolute pressure
Measuring range	0 160 mbar (0 2.32 psi)
	 0 40 bar (0 580 psi)
Output	
Output signal	
• 2-wire system	4 20 mA
Three-wire system	0 20 mA
Measuring accuracy	Acc. to IEC 60770-1
Error in measurement at limit setting incl. hysteresis and reproducibility	≤ 0.2 % of full-scale value
Adjustment accuracy	\leq \pm 0.2 % of full-scale value
Step response time	< 20 ms
Influence of ambient temperature	
On the enclosure	
• Zero point	< 0.2 %/10 K of full-scale value
Measuring span	< 0.2 %/10 K of full-scale value
On the process connection (remote seals)	Zero error (depends on design)
Flange remote seal	
- DN 25 / 1"	4.8 mbar/10 K (0.069 psi/10 K)
- DN 32 / 11/4"	2.3 mbar/10 K (0.033 psi/10 K)
- DN 40 / 1½"	1.6 mbar/10 K (0.023 psi/10 K)
- DN 50 / 2"	0.6 mbar/10 K (0.009 psi/10 K)
• Clamp-on seal	
- DN 25 / 1"	9.5 mbar/10 K (0.14 psi/10 K)
- DN 32 / 11/4"	4.1 mbar/10 K (0.06 psi/10 K)
- DN 40 / 1½"	3.9 mbar/10 K (0.05 psi/10 K)
- DN 50 / 2"	3.9 mbar/10 K (0.05 psi/10 K)

The zero error specified for the process connection should be considered as a guideline for a standard design. We will produce a detailed system calculation on request. Systems with reduced remote seal errors are available on request.

Rated conditions	
Installation conditions	
Mounting position	Any, vertical as standard
Ambient conditions	
Ambient temperature	-10 +70 °C (14 158 °F)
Storage temperature	-10 +90 °C (14 194 °F)
Process temperature	Max. 200 °C (392 °F), depending on design
Degree of protection (to EN 60529)Electromagnetic Compatibility	IP65, optional IP67
- Emitted interference	To EN 50081 Part 1, issue 1993 (residential and industrial areas). The unit has no own emissions.
- Noise immunity to	EN 50082 Part 2, issue March 1995 (industrial areas)
Design	
Weight (without remote seal)	
• Field enclosure	≈ 460 G (≈ 1.01 (lb)
• Enclosure with plug	≈ 200 g (≈ 0.44 lb)
Enclosure	
• Designs	 Field housing IP65 or IP67, with screwed gland
	Angled plug DIN 43650, IP65Cable connection, IP67
	Round plug connector M12, IP65
Material	Stainless steel, mat. no. 1.4404/316L/1.4305
Material of union nut	Polyamide (with electrical connection using plug or cable) Electronics unit potted with silicone
	Internal ventilation for measuring ranges < 16 bar (< 232 psi), through housing thread or connection cable depending on design
Process connection	Can ardarina data
Versions Metarial of coupling	See ordering data
Material of coupling	Stainless steel, mat. no. 1.4404/316L
Power supply	
Terminal voltage on transmitter	10 30 V DC
Rated voltage	24 V DC
Certificates and approvals	
Classification according to pressure equipment directive (PED 97/23/EC)	For gases of fluid group 1 and liq uids of fluid group 1; complies with the requirements of article 3, paragraph 1 (appendix 1); assigned to category III, confor- mity evaluation module H by the TÜV Nord
Explosion protection	
• Intrinsic safety "i"	TÜV 03 ATEX 2099 X
- Marking	Ex II 2G Ex ib IIC T6

Pressure Measurement Transmitters for basic requirements

SITRANS P Compact for gauge and absolute pressure

Selection and Ordering data	Order No.	Ord. code	Selection and Ordering data	Order No.	Ord. cod
SITRANS P Compact pressure trans- mitters for pressure and absolute pressure with diaphragm flush at front	7 M F 8 0 1 0 -		SITRANS P Compact pressure trans- mitters 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		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			Diaphragm seal with aseptic connection		
Milk pipe union to DIN 11851 with slotted union nut			Aseptic screwed gland to DIN 11864-1, form A, with slotted union nut		
• DN 25	A D		• 1 inch	PM	
• DN 32	AE		• 1½ inch	PN	
• DN 40	A F		• 2 inch	PP	
• DN 50	A G		• 2½ inch	PQ	
• DN 65	AH		Aseptic screwed gland to		
Milk pipe union to DIN 11851 with threaded socket			DIN 11864-1, form A with threaded socket		
• DN 25	B D		• 1 inch	QM	
• DN 32	BE		• 1½ inch	QN	
• DN 40	BF		• 2 inch	QP	
• DN 50	BG		• 2½ inch	QQ	
• DN 65	ВН		Aseptic screwed NEUMO		
Clamp connection to DIN 32676			with slotted union nut ¹⁾		
• DN 25	CD		• DN 25	RD	
• DN 40	CF		• DN 32	RE	
• DN 50	CG		• DN 40	RF	
Clamp connection to ISO 2852			• DN 50	RG	
• 1 inch	DM		Aseptic screwed NEUMO		
• 1½ inch	DN		with threaded socket ¹⁾		
• 2 inch	DP		• DN 25	SD	
• 2½ inch	DQ		• DN 32	SE	
IDF standard with slotted union nut			• DN 40	SF	
• 1 inch	ЕМ		• DN 50	SG	
• 1½ inch	EN		Aseptic screwed NEUMO		
• 2 inch	EP		with clamp connection, form R ¹⁾ • DN 25	TD	
IDF standard with threaded socket			• DN 32	TE	
• 1 inch	FM		• DN 40	TF	
• 1½ inch	FN		• DN 50	TG	
• 2 inch	FP		Aseptic screwed NEUMO	1 G	
SMS standard with slotted union nut			with clamp connection, form V ¹⁾		
• 1 inch	GM		• DN 25	UD	
• 1½ inch	GN		• DN 32	UE	
• 2 inch	GP		• DN 40	UF	
SMS standard with threaded socket			• DN 50	UG	
• 1 inch	нм		Male thread DIN 3852 Form A		
• 1½ inch	HN		• G½", min. meas. span 1.6 bar (23.2 psi)	XA	
• 2 inch	H P		• G¾", min. meas. span 1 bar (14.5 psi)	ХВ	
DRD flange, without welding-type flange			• G1", min. meas. span 0.4 bar (5.8 psi)	ХC	
• DN 50, PN 40	J H		• G1½", min. meas. span 0.25 bar	ΧD	
Varivent connection (Tuchenhagen) • D = 50, for Varivent housing DN 25 and	KF		(3.63 psi) • G2", min. meas. span 0.16 bar	ΧE	
1 inch			(2.32 psi)		
 D = 68, for Varivent housing DN 40 DN 125 and 1½ 6 inch 	KL		Special version (add Order code and plain text)	ZA	J 1 Y
Special version (add Order code and plain text)	ZA	J 1 Y	Filling liquid Vegetable oil	1	
Filling liquid	اللالي		Medicinal white oil	2	
Vegetable oil	1		Food oil, FDA-listed	3	
Medicinal white oil	2		Special version	9	L1Y
Food oil, FDA-listed	3		Opeolal version	3	- 11
Special version	9	L 1 Y	Output signal		
			4 20 mA	1	
Output signal 4 20 mA	1		Special version (add Order code and plain text)	9	M 1 Y
Special version	9	M 1 Y	, , ,		
(add Order code and plain text)			 Please specify as well: Connections for pipes: R01, R02 or R03, se page 	e table "Further d	esigns" on ne

page

Ord. code

Pressure Measurement

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SITRANS P Compact
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Selection and Ord	ering data	Order No.	Ord. code	Selection and Order	ing data	Order No.	Ord. coc
SITRANS P Compa mitters for pressur	act pressure trans-	7 M F 8 0 1 0 -		SITRANS P Compac mitters for pressure pressure with diaphi	and absolute	7 M F 8 0 1 0 =	
2-wire system Process temperature Accuracy: 0.2 % of Output 4 20 mA	e up to 140 °C (284 °F) full-scale value	1	•	2-wire system Process temperature u Accuracy: 0.2 % of fu Output 4 20 mA		1====-	т
Housing design (s No. 1.4404/316L) /	tainless steel mat. electr. connection			Measured range	Overload pres- sure		
Housing with angle IP65	d plug to DIN 43650,	1		(continued)			
Housing with round union nut made of p		2		-1 +9 bar (-14.5 +130.5 psi) -1 +15 bar	30 bar (435 psi) 50 bar	G A G B	
Housing with round union nut made of s		3		(-14.5 +217.6 psi)	(725 psi)	ца	
	housing (small) with	4		0 1 bar a (0 14.5 psia) 0 1.6 bar a	10 bar a (145 psia) 10 bar a	на нв	
Stainless steel field cable gland, IP67	housing (small) with or measuring ranges	5		(0 23.2 psia) 0 2.5 bar a (0 36.3 psia)	(145 psia) 16 bar a (232 psia)	нс	
< 10 bar (< 145 psi)			0 4 bar a (0 58 psia)	16 bar a (232 psia)	HD	
Measured range 0 160 mbar	Overload pressure 2 bar	ВВ		0 6 bar a (0 87 psia)	30 bar a (435 psia)	HE	
(0 2.32 psi) 0 250 mbar (0 3.63 psi)	(29 psi) 2 bar (29 psi)	вс		0 10 bar a (0 145 psia)	30 bar a (435 psia)	J A	
0 400 mbar	6 bar	B D		Special version (add Order code and	nlain text)	ZA	P 1 Y
(0 5.8 psi) 0 600 mbar	(87 psi) 6 bar	BE		Explosion protection	<u>'</u>		
(0 8.7 psi) 0 1 bar	(87 psi) 10 bar	CA		without with, to ATEX 100a, II	2.G. Evib IIC T6		1 2
(0 14.5 psi)	(145 psi)			Further designs	2 4, 2 10 110 10	Order code	_
0 1.6 bar (0 23.2 psi)	10 bar (145 psi)	СВ		Please add "-Z" to Ord	der No. and specify		
0 2.5 bar (0 36.3 psi)	16 bar (232 psi)	cc		Order code Hygiene version		P01	
0 4 bar (0 58 psi)	16 bar (232 psi)	CD		Roughness of process Foil R _a < 0.8 µm (3.15			
0 6 bar (0 87 psi)	30 bar (435 psi)	CE		Welded seams $R_a < 1$ (5.9·10 ⁻⁸ inch)	1.5 μm		
0 10 bar (0 145 psi)	30 bar (435 psi)	DA		Integral cooling elen		K01	
0 16 bar (0 232 psi)	50 bar	DB		Process temperature (392 °F) instead of 14			
0 25 bar	(725 psi) 50 bar	DC		Connections for pipe Pipes to DIN 11850	e	R01	
(0 363 psi) 0 40 bar	(725 psi) 70 bar	D D		ISO pipes to DIN 2463		R02	
(0 580 psi)	(1015 psi)			Pipes to O. D. Tubing	"BS 4825 Part 1"	R03	
-160 0 mbar (-2.32 0 psi)	2 bar (29 psi)	ЕВ		Certificates Quality inspection cer		C11	
-250 0 bar (-3.73 0 psi)	2 bar (29 psi)	EC		(Factory calibration) to Inspection certificate		C12	
-400 0 bar (-5.8 0 psi)	6 bar (87 psi)	E D		Use of FDA-listed rem	note seal filling	C17	
-600 0 bar (-8.7 0 psi)	6 bar (87 psi)	EE		liquids certified by tes EN 10204-2.2	st report to		
-1 0 bar (-14.5 0 psi)	10 bar (145 psi)	FA		Roughness depth me certified by test repor		C18	
-1 0.6 bar (-14.5 8.7 psi)	10 bar (145 psi)	FB		Certification to EHEDO seals with aseptic scr		C19	
-1 1.5 bar	16 bar	FC		to DIN 11864	z od gjand		
(-14.5 21.8 psi) -1 3 bar	(232 psi) 16 bar	F D					
(-14.5 43.5 psi) -1 5 bar	(232 psi) 30 bar	FE					
(-14.5 72.5 psi)	(435 psi)						

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SITRANS P Compact for gauge and absolute pressure

Selection and Ordering data	Order No.	Ord. code
SITRANS P Compact pressure trans- mitters 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 DN 32 DN 40 DN 50 DN 65 Clamp connection to DIN 32676 DN 25 DN 32 DN 40 DN 50 DN 65 Clamp connection to ISO 2852 ¹⁾ 1 inch 1½ inch 2 inch Special version (add Order code and plain text)	AD AE AF AG AH CD CE CF CG CH DM DN DP DQ 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	L1Y
Output signal 4 20 mA Special version (add Order code and plain text)	1 9	M 1 Y

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 trans- mitters for pressure and absolute pressure with clamp-on remote seal	7MF8010-	gran seas
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 • 2 inch	QN QP	
Aseptic screwed NEUMO with threaded socket 1)		
• DN 25	SD	
DN 32DN 40	S E S F	
• 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	T G	
Aseptic screwed gland SÜDMO with threaded socket W 501		
• 1 inch • 1½ inch	V M V N	
• 2 inch	V P	
Aseptic screwed gland SÜDMO with clamp connection W 601		
• 1 inch	WM	
• 1½ inch	WN	
2 inch Special version	WP ZA	J 1 Y
(add Order code and plain text)	-	• • •
Filling liquid		
Vegetable oil	1	
Medicinal white oil	2	
Food oil, FDA-listed	3	1.4.
Special version (add Order code and plain text)	9	L1Y
Output signal		
4 20 mA	1	
Special version (add Order code and plain text)	9	M 1 Y

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

Transmitters for basic requirements

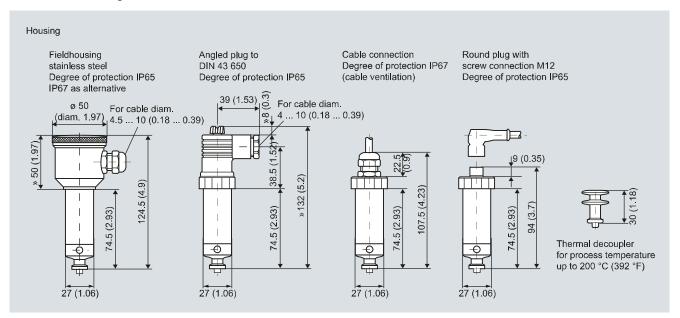
SITRANS P Compact
for gauge and absolute pressure

Calcation and Ord	avina data	Order No	Ord and	Coloration and Oudoving data	Order No	Ord and
Selection and Ord	ering data act pressure trans-	Order No. 7 M F 8 0 1 0 =	Ord. code	Selection and Ordering data SITRANS P Compact pressure trans-	Order No. 7 M F 8 0 1 0 =	Ord. code
mitters for pressur	re and absolute			mitters for pressure and absolute pressure with clamp-on remote seal		
2-wire system	e up to 140 °C (284 °F)	2		2-wire system Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of full-scale value Output 4 20 mA	2	
	tainless steel mat. electr. connection			Measured range Overload pressure (continued)		
Housing with angle IP65, union nut mad Housing with round union nut made of p Housing with round	d plug to DIN 43650, de of polyamide plug M12, IP65, polyamide plug M12, IP65,	1 2 3		-1 9 bar 30 bar (-14.5 130.5 psi) (435 psi) -1 15 bar 50 bar (-14.5 217.6 psi) (725 psi)	G A G E H A	3
union nut made of s Stainless steel field cable gland, IP65	housing (small) with	4		0 1 bar a 10 bar a (0 14.5 psia) (145 psia) 0 1.6 bar a 10 bar a	н	
Stainless steel field cable gland, IP67	housing (small) with for measuring ranges	5		(0 23.2 psia) (145 psia) 0 2.5 bar a 16 bar a (0 36.3 psia) (232 psia) 0 4 bar a 16 bar a (0 58 psia) (232 psia)	н	
Measured range 0 160 mbar	Overload pressure 2 bar	ВВ		0 6 bar a 30 bar a (0 87 psia) (435 psia)	H E	
(0 2.32 psi) 0 250 mbar	(29 psi) 2 bar	вс		0 10 bar a 30 bar a (0 145 psia) (435 psia)	J A	4
(0 3.63 psi) 0 400 mbar (0 5.8 psi)	(29 psi) 6 bar (87 psi)	ВД		Special version (add Order code and plain text)	Z I	A P1Y
0 600 mbar (0 8.7 psi)	6 bar (87 psi)	ВЕ		Explosion protection without		1
0 1 bar (0 14.5 psi)	10 bar (145 psi)	CA	•	with, to ATEX 100a, II 2 G, Ex ib IIC T6	Order ande	2
0 1.6 bar (0 23.2 psi)	10 bar (145 psi)	СВ		Further designs Please add "-Z" to Order No. and specify Order code	Order code	
0 2.5 bar (0 36.3 psi)	16 bar (232 psi)	CC		Hygiene version	P01	
0 4 bar (0 58 psi) 0 6 bar (0 87 psi)	16 bar (232 psi) 30 bar (435 psi)	C D		Roughness of process connection: Foil $R_a < 0.8 \ \mu m \ (3.15 \cdot 10^{-8} \ inch);$ Welded seams $R_a < 1.5 \ \mu m \ (5.9 \cdot 10^{-8} \ inch)$		
0 10 bar (0 145 psi) 0 16 bar	30 bar (435 psi) 50 bar	D A		Integral cooling element Process temperature max. 200 °C (392 °F) instead of 140 °C (284 °F)	K01	
(0 232 psi) 0 25 bar (0 363 psi) 0 40 bar	(725 psi) 50 bar (725 psi) 70 bar	D C		Connections for pipe Pipes to DIN 11850 ISO pipes to ISO 2463 Pipes to O. D. Tubing "BS 4825 Part 1"	R01 R02 R03	
(0 580 psi) -160 0 mbar	(1015 psi) 2 bar	EB		Certificates		
(-2.32 0 psi) -250 0 bar (-3.73 0 psi)	(29 psi) 2 bar (29 psi)	EC		Quality inspection certificate (Five-step factory calibration) to IEC 60770-2	C11	
-400 0 bar (-5.8 0 psi) -600 0 bar (-8.7 0 psi)	6 bar (87 psi) 6 bar (87 psi)	E D		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	
-1 0 bar (-14.5 0 psi) -1 0.6 bar	10 bar (145 psi) 10 bar	F A		Roughness depth measurement R _a certified by test report to EN 10204-3.1	C18	
(-14.5 8.7 psi) -1 1.5 bar (-14.5 21.8 psi) -1 3 bar	(145 psi) 16 bar (232 psi) 16 bar	F C		Certification to EHEDG for clamp-on seals with aseptic screwed gland to DIN 11864	C19	
(-14.5 43.5 psi) -1 5 bar (-14.5 72.5 psi)	(232 psi) 30 bar (435 psi)	FE				

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SITRANS P Compact for gauge and absolute pressure

Dimensional drawings

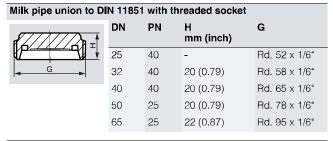


SITRANS P Compact, dimensions in mm (inch)

Process connections

Diaphragm seal with quick-release clamp

Milk pipe union to DIN 11851 with slotted union nut DN PΝ mm (inch) 25 40 24 (0.95) Rd. 52 x 1/6" 32 40 24 (0.95) Rd. $58 \times 1/6$ " 40 40 24 (0.95) Rd. 65 x 1/6" 25 50 25.1 (0.99) Rd. 78 x 1/6" 65 25 28.6 (1.13) Rd. 95 x 1/6"



Clamp connection to DIN 32676						
	DN	PN	H mm (inch)	D mm (inch)		
\\	25	16	14 (0.55)	50.5 (2)		
' D '	40	16	14 (0.55)	50.5 (2)		
	50	16	14 (0.55)	64 (2.52)		
Clamp connection to ISO 2852						
	DN	DNI	ш	n		

Clamp connection to ISO 2852							
<u>+</u>	DN	PN	H mm (inch)	D mm (inch)			
\	1"	16	14 (0.55)	50.5 (2)			
' D '	11/2"	16	12 (0.47)	50.5 (2)			
	2"	16	14 (0.55)	64 (2.52)			
	2½"	16	14 (0.55)	77.5 (3.05)			

IDF standard with slotted union nut							
=======================================	DN	PN	H mm (inch)	G inch (IDF thread)			
	1"	40	21 (0.83)	1"			
G	11/2"	40	13.5 (0.53)	1½"			
	2"	25	15 (0.59)	2"			

IDF standard with threaded socket						
	DN	PN	H mm (inch)	G inch (IDF thread)		
	1"	40	21 (0.83)	1"		
G	11/2"	40	13.5 (0.53)	1½"		
17	2"	25	15 (0.59)	2"		

SMS standard with slotted union nut							
	DN	PN	H mm (inch)	G			
	1"	40	16 (0.63)	Rd 40 x 1.6"			
Ğ	1½"	40	16 (0.63)	Rd 60 x 1.6"			
	2"	25	16 (0.63)	Rd 70 x 1.6"			

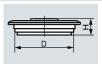
SMS standard with threaded socket					
<i>4</i> ////////////////////////////////////	DN	PN	H mm (inch)	G	
(4//X//A) T	1"	40	16 (0.63)	Rd 40 x 1.6"	
G →	11/2"	40	20 (0.79)	Rd 60 x 1.6"	
	2"	25	20 (0.79)	Rd 70 x 1.6"	

DRD flange, without	welding	g-type fla	ange	
<u></u>	DN	PN	H mm (inch)	D mm (inch)
D T	50	40	16.7 (0.66)	65.5 (2.58)

Transmitters for basic requirements

SITRANS P Compact for gauge and absolute pressure

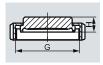
Varivent connection



DN	PN	H mm (inch)	D mm (inch)
25	25	19 (0.75)	50 (1.97)
40 125	25/10	19 (0.75)	68 (2.68)

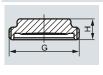
Diaphragm seal with aseptic connection

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



DN	PN	mm (inch)	G
1"	40	20 (0.79)	Rd 52 x 1/6"
11/2"	40	20 (0.79)	Rd 58 x 1/6"
2"	25	20 (0.79)	Rd 65 x 1/6"
21/2"	25	20 (0.79)	Rd 78 x 1/6"

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



DN	PN	H mm (inch)	G
1"	40	15 (0.59)	Rd 52 x 1/6"
1 ½"	40	15 (0.59)	Rd 58 x 1/6"
2"	25	15 (0.59)	Rd 65 x 1/6"
21/2"	25	15 (0.59)	Rd 78 x 1/6"

Aseptic screwed NEUMO BioConnect with slotted union nut



	DN	PN	mm (inch)	G
	25	16	15 (0.59)	M 42 x 2
	32	16	15 (0.59)	M 52 x 2
١	40	16	15 (0.59)	M 56 x 2
	50	16	15 (0.59)	M 68 x 2

Aseptic screwed NEUMO BioConnect with threaded socket



DN	PN	H mm (inch)	G
25	16	20 (0.79)	M 42 x 2
32	16	20 (0.79)	M 52 x 2
40	16	20 (0.79)	M 56 x 2
50	16	20 (0.79)	M 68 x 2

Aseptic screwed NEUMO BioConnect with clamp connection, form R



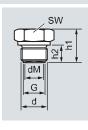
DN	PN	H mm (inch)	D mm (inch)
25	40	20 (0.79)	50.5 (2)
32	40	20 (0.79)	50.5 (2)
40	40	20 (0.79)	64 (2.52)
50	25	20 (0.79)	77.4 (3.05)

Aseptic screwed NEUMO BioConnect with clamp connection, form V



DN	PN	H mm (inch)	D mm (inch)
25	40	15 (0.59)	50.5 (2)
32	40	15 (0.59)	50.5 (2)
40	40	15 (0.59)	64 (2.52)
50	25	15 (0.59)	77.4 (3.05)

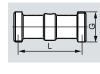
Male thread DIN 3852, form A



G	d	d _M	h ₁	h ₂	SW
	mm	mm	mm	mm	mm
	(inch)	(inch)	(inch)	(inch)	(inch)
G½A	26	17.5	27	14	27
	(1.02)	(0.69)	(1.06)	(0.55)	(1.06)
G¾A	32	22.6	31	16	32
	(1.26)	(0.89)	(1.22)	(0.63)	(1.26)
G1A	39	27	33	18	51
	(1.54)	(1.06)	(1.30)	(0.71)	(2.01)
G1½A	55	40	40	22	55
	(2.17)	(1.57)	(1.57)	(0.87)	(2.17)
G2A	68	51	42	24	70
	(2.68)	(2.00)	(1.65)	(0.94)	(2.76)

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

Milk pipe union to DIN 11851 with threaded socket



DN	PN	L mm (inch)	G
25	40	110 (4.33)	Rd 52 x 1/6"
32	40	110 (4.33)	Rd 58 x 1/6"
40	40	110 (4.33)	Rd 65 x 1/6"
50	25	110 (4.33)	Rd 78 x 1/6"
65	25	110 (4.33)	Rd 95 x 1/6"

Clamp connection to DIN 32676



_							
	DN	PN	L mm (inch)	D mm (inch)			
	25	16	110 (4.33)	50.5 (2)			
	32	16	110 (4.33)	50.5 (2)			
	40	16	110 (4.33)	50.5 (2)			
	50	16	110 (4.33)	64 (2.52)			
	65	10	110 (4.33)	91 (3.58)			

Clamp connection to ISO 2852



<u>*</u>	DN	PN	L mm (inch)	D mm (inch)
1	1"	16	110 (4.33)	50.5 (2)
	1½"	16	110 (4.33)	50.5 (2)
	2"	16	110 (4.33)	64 (2.52)
	21/2"	16	110 (4.33)	91 (3.58)

Clamp-on seal with aseptic connection

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



/6"
/6"
/6"

Aseptic screwed NEUMO BioConnect with threaded socket



DN	PN	L mm (inch)	G
25	16	110 (4.33)	M 42 x 2
32	16	110 (4.33)	M 52 x 2
40	16	110 (4.33)	M 56 x 2
50	16	110 (4.33)	M 68 x 2
65	16	110 (4.33)	M 90 x 3

Transmitters for basic requirements

SITRANS P Compact for gauge and absolute pressure

Aseptic screwed NEUMO BioConnect with clamp connection, form R



DN	PN	L mm (inch)	D mm (inch)
25	16	110 (4.33)	50.4 (2)
32	16	110 (4.33)	50.4 (2)
40	16	110 (4.33)	64 (2.52)
50	16	110 (4.33)	77.4 (3.05)

Aseptic screwed gland SÜDMO with threaded socket W 501



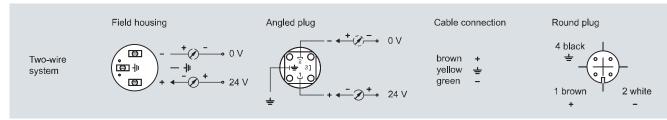
DN	PN	L mm (inch)	G
1"	25	110 (4.33)	Rd 44 x 1/6"
11/2"	25	110 (4.33)	Rd 58 x 1/6"
2"	20	110 (4.33)	Rd 78 x 1/6"

Aseptic screwed gland SÜDMO with threaded socket W 601



	DN	PN	L mm (inch)	D mm (inch)
	1"	16	110 (4.33)	50.5 (2)
	11/2"	16	110 (4.33)	64 (2.52)
١	2"	16	110 (4.33)	77.5 (3.05)

Schematics



SITRANS P Compact, connection diagram