### **SITRANS P200**

### Overview



The SITRANS P200 pressure transmitter measures the gauge and absolute pressure of liquids, gases and vapors.

- Ceramic measuring cell
- Gauge and absolute measuring ranges 1 to 60 bar (15 to 1000 psi)
- For general applications

#### Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- · High overload withstand capability
- · For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- · Compact design

### Application

The SITRANS P200 pressure transmitter for gauge and absolute pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- · Water supply

#### Design

#### Device structure without explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a round plug M12 (IP67), a cable (IP67) or a cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

#### Device structure with explosion protection

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#### Function

The pressure transmitter measures the gauge and absolute pressure of liquids and gases as well as the level of liquids.

#### Mode of operation



SITRANS P200 pressure transmitters (7MF1565-...), functional diagram

The ceramic measuring cell has a thin-film resistance bridge to which the operating pressure p is transmitted through a ceramic diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

### **SITRANS P200**

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Technical specifications		
Application		ī
Gauge and absolute pressure mea- surement	Liquids, gases and vapors	\ 
Mode of operation		
Measuring principle	Piezo-resistive measuring cell (ceramic diaphragm)	L
Measured variable	Gauge and absolute pressure	
Inputs		
Measuring range		
<ul> <li>Gauge pressure</li> <li>Metric</li> <li>US measuring range</li> </ul>	1 60 bar g (15 870 psi g) 15 1000 psi g	١
<ul> <li>Absolute pressure</li> <li>Metric</li> <li>US measuring range</li> </ul>	0.6 16 bar a (10 232 psi a) 10 300 psi a	•
Output		•
Current signal	4 20 mA	
• Load	(U <sub>B</sub> - 10 V) / 0.02 A	
<ul> <li>Auxiliary power U<sub>B</sub></li> </ul>	DC 7 33 V (10 30 V for Ex)	
Voltage signal	0 10 V DC	
• Load	$\geq$ 10 k $\Omega$	
<ul> <li>Auxiliary power U<sub>B</sub></li> </ul>	12 33 V DC	
<ul> <li>Power consumption</li> </ul>	< 7 mA at 10 k $\Omega$	
Characteristic curve	Linear rising	
Measuring accuracy		
Error in measurement at 25 °C (77 °F), including conformity error, hysteresis and repeatability	<ul> <li>Typical: 0.25 % of full-scale value</li> <li>Maximum: 0.5 % of full-scale value</li> </ul>	
Sotting time TOO	value	I
Setting time T99	< 0.1 s	
Long-term drift	0.25 % of full poole value/veer	
Lower range value and measuring span	0.25 % of full-scale value/year	
Influence of ambient temperature		
Lower range value and measuring span	0.25 %/10 K of full-scale value	
Influence of power supply	0.005 %/V	-
Conditions of use Process temperature with gasket made of:		
FPM (Standard)	-15 +125 °C (+5 +257 °F)	
Neoprene	-35 +100 °C (-31 +212 °F)	
Perbunan	-20 +100 °C (-4 +212 °F)	
• EPDM	-40 +145 °C (-40 +293 °F),	
Ambient temperature	-25 +85 °C (-13 +185 °F)	
·		
Storage temperature Degree of protection (to EN 60529)	-50 +100 °C (-58 +212 °F) • IP 65 with connector per	
Degree of protection (to EN 60529)	<ul> <li>IP 65 with connector per EN 175301-803-A</li> <li>IP 67 with M12 connector</li> <li>IP 67 with cable</li> <li>IP 67 with cable quick screw connection</li> </ul>	
Electromagnetic compatibility	• acc. EN 61326-1/-2/-3	

Design	
Weight	Approx. 0.090 kg (0.198 lb)
Process connections	See dimension drawings
Electrical connections	• Connector per EN 175301-803-A Form A with cable inlet M16x1.5 or ½-14 NPT or Pg 11
	<ul> <li>M12 connector</li> <li>2 or 3-wire (0.5 mm<sup>2</sup>) cable (Ø ± 5.4 mm)</li> </ul>
	Cable quick screw connection
Wetted parts materials	
Measuring cell	Al <sub>2</sub> O <sub>3</sub> - 96 %
Process connection	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Gasket	<ul> <li>FPM (Standard)</li> </ul>
	Neoprene
	Perbunan
	• EPDM
Non-wetted parts materials	Otaliala as ato al most Nia d 4404
• Enclosure	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Rack	Plastic
• Cables	PVC
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 requirements of article 3, paragraph 3 (sound engineering practice)
Lloyds Register of Shipping (LR)	Applied
Germanischer Lloyds Register of Shipping (GL)	Applied
American Bureau of Shipping (ABS)	Applied
Bureau Veritas (BV)	Applied
Det Norske Veritas (DNV)	Applied
Drinking water approval (ACS)	Applied
GOST	Applied
Explosion protection	
Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125 °C Da/Db
EC type-examination certificate	SEV 10 ATEX 0146
Connection to certified intrinsically- safe resistive circuits with maxi- mum values:	$U_i \leq$ 30 V DC; $I_i \leq$ 100 mA; $P_i \leq$ 0.75 W
Effective internal inductance and capacity for versions with plugs per EN 175301-803-A and M12	$L_i = 0 \text{ nH}; C_i = 0 \text{ nF}$

• acc. NAMUR NE21, only for ATEX versions and with a max. measuring deviation ≤ 1 %

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16 barg       (0232 pei)       -0.4 barg       (58.02 psi)       > 4 barg       (> 58.0 psi)       > 388         2 barg       (0830 psi)       -0.6 barg (11.6 psi)       (0.25 psi)       > 10 barg       (> 145 psi)       > 388         1.0 barg       (0450 psi)       -0.6 barg (14.5 psi)       115 barg (217 psi)       > 388       386         1.0 barg       (045 psi)       1.4 barg       (14.5 psi)       1.4 psi)       3.25 barg (0.25 barg (207 psi)       3.26 barg         2.5 barg       (0363 psi)       1.4 barg (14.5 psi)       1.4 barg (14.5 psi)       1.4 barg (14.5 psi)       3.26 barg (-1400 psi)       3.26 barg         2.6 barg       (0870 psi)       1.4 barg (14.5 psi)       1.5 barg (217 psi)       3.26 barg (-1400 psi)       3.2	Selection and	d ordering data				Order No.	Order code
the departs materials: scale as steel           average for a materials: stale as steel           Burling range:         Burling range:         Burling range:         State of the state as steel           regree pressure         State of the state as steel           Colspan="2">State of the state as steel           State of the state as steel            State of				and absolute pressure	for general applications	7MF1565-	
n-weited parts materials: stanless steel asuring range Verical limit Max. rguege pressure 1 brarg (0145 paig) - 0.4 brarg (545 paig) + 25 barg (536 2 paig) > 2.5 barg (536 3 paig) > 5 66 a 1.5 barg (747 3 paig) > 2.5 barg (536 3 paig) > 5 66 a 1.5 barg (747 paig) > 2.5 barg (536 3 paig) > 5 66 a 1.5 barg (536 3 paig) > 2.5 barg (536				acaling matarial			
asuring range         Overload limit Min.         Max.         Burst pressure           1 bar g (0145 psi)         -0 barg (5.8 psi)         25 barg (0.80 psi)         >25 barg (0.80 psi)         38 a           1 bar g (0145 psi)         -0 barg (5.8 psi)         25 barg (0.80 psi)         >4 barg (5.80 psi)         38 b           2 barg (086 psi)         -0 barg (-116 psi)         10 barg (14 psi)         10 barg (14 psi)         >10 barg (0.145 psi)         38 b           4 barg (0670 psi)         -1 barg (14 4 psi)         10 barg (14 4 psi)         10 barg (0.145 psi)         38 b           10 barg (044 psi)         -1 barg (14 4 psi)         10 barg (14 5 psi)         10 barg (14 5 psi)         38 b           -0 barg (0680 psi)         -1 barg (14 4 psi)         10 barg (14 5 psi)         10 barg (14 5 psi)         30 barg (15 psi)         30 barg (15 psi)           -0 barg (0680 psi)         -1 barg (14 4 psi)         10 barg (14 5 psi)         10 barg (14 5 psi)         30 barg (15 psi)         30 barg (14 psi)         30 barg (15 psi)         30 barg (15 psi)         30 barg (15 psi)         30 barg (14 psi)	•			sealing material			
No.         Max.         Image (mathef (mathe	· · · ·				Buret pressure		
rgauge pressure         1         Adv barg (5.8 psig)         2.5 barg (36.26 psig)         2.5 barg (-36.3 psig)         3.8 A           1.6 barg (022 psig)         -0.4 barg (5.8 psig)         1.8 barg (-16.3 psig)         -2.5 barg (-36.3 psig)         3.8 B           2.5 barg (036.3 psig)         -0.8 barg (-116.psig)         1.6 barg (025 psig)         3.8 D           4.6 barg (0850 psig)         -0.8 barg (-114.5 psig)         1.0 barg (-14.4 psig)         1.0 barg (-14.5 psig)         1	measuring ra	inge		Max	Burst pressure		
1 barg       (0145 psig)       -0.4 barg (5.8 psig)       25 barg (0.282 psig)       -0.4 barg (5.6 psig)       -2.5 barg (0.282 psig)       -0.4 barg (5.6 ps			MIN.	Max.		-	
1.6 barg (0232 pci)       -0.4 barg (15.6 basi)       + 4 barg (083 basi)       -0.4 barg (15.6 basi)       0.2 barg (085 barg (-10.0 basi)       38 basis         2.5 barg (085 0 pcig)       -0.8 barg (-11.6 pcig)       10 barg (145 pcig)       > 10 barg (2.17 pcig)       38 basis         6. barg (087 0 pcig)       -1 barg (14.5 pcig)       10 barg (0145 pcig)       1 barg (14.5 pcig)       3 CA         10 barg (0145 pcig)       1 barg (14.5 pcig)       2 barg (80 pcig)       > 25 barg (80 pcig)       3 CB         25 barg (087 0 pcig)       -1 barg (14.5 pcig)       1 barg (14.5 pcig)       3 CD       3 CB         25 barg (087 0 pcig)       -1 barg (14.5 pcig)       1 barg (14.5 pcig)       3 CD       3 CD         co barg (087 0 pcig)       -1 barg (14.5 pcig)       1 barg (2.17 pcig)       3 CD       3 CD         co barg (087 0 pcig)       1 bara (0 pcig)       1 barg (2.17 pcig)       3 CD       3 CD         1.0 bara (087 0 pcig)       1 bara (0 pcig)       2 5 bara (0.53 0 pcig)       3 CA       3 CD         1.0 bara (022 pcig)       0 bara (0 pcig)       2 bara (0.56 0 pcig)       > 2 bara (0.56 0 pcig)       3 CB         2.5 bara (023 pcig)       0 bara (0 pcig)       1 bara (43 5 pcig)       > 2 bara (0.56 0 pcig)       5 BD         1.0 bara (0 pcig)	•••		1	1	1		
2.5 barg       (038.3 psi)       -0.8 barg       (1.16 psi)       >5.25 barg       (9.0.7 psi)       38 b         6 barg       (087.0 psi)       -1 barg       (-14.5 psi)       15 barg       (217 psi)       >15 barg       (2.87 psi)       38 b         1 bbarg       (087.0 psi)       -1 barg       (-14.5 psi)       25 barg       (3.82 psi)       3 C B         1 bbarg       (0222 psi)       -1 barg       (-14.5 psi)       25 barg       (9.06 psi)       3 C B         2.5 barg       (0870 psi)       -1 barg       (-14.5 psi)       (14.5 psi)       50 barg       (2.17 psi)       > 50 barg       (2.17 psi)       3 C B         4.0 barg       (-14.5 psi)       (14.5 psi)       (14.5 psi)       10 barg       (14.5 psi)       > 2.5 barg       (9.06 psi)       3 C B         - erobolic pressure       -       -       -       -       -       -       -       3 C B         - 600 barg       0.145 psi)       0 bara       0 psi a)       3 bara       4 0 bara       (5.80 psi)       > 5 B B       -       5 B B         - 600 barg       0 bara       0 psi a)       2 bbara       (3.60 psi)       > 2.5 bara       (-3.63 psi)       5 B B         - 600 barg <t< td=""><td>01barg</td><td></td><td>0 ( 1 0/</td><td>0 ( ) 0,</td><td>, , , , , , , , , , , , , , , , , , , ,</td><td></td><td></td></t<>	01barg		0 ( 1 0/	0 ( ) 0,	, , , , , , , , , , , , , , , , , , , ,		
4 barg       0870 psi)       0.8 barg (-116 psi)       10 barg (145 psi)       > 10 barg (-146 psi)       3 B E         10 barg       0870 psi)       -1 barg (-146 psi)       25 barg (362 psi)       > 25 barg (-277 psi)       3 B E         10 barg       0870 psi)       -1 barg (-146 psi)       25 barg (362 psi)       > 25 barg (-277 psi)       3 C B         25 barg       0380 psi)       -1 barg (-145 psi)       0.0 barg (90 psi)       > 25 barg (-145 psi)       3 C B         40 barg       0380 psi)       -1 barg (-145 psi)       0.10 barg (1450 psi)       > 100 barg (>1450 psi)       3 C B         40 barg       0880 psi)       -1 barg (-145 psi)       0.10 barg (1450 psi)       > 100 barg (>1450 psi)       3 C B         60 barg       0870 psi)       -1 barg (-145 psi)       0.10 barg (1450 psi)       > 10 barg (>1450 psi)       3 C B         colo bara       0870 psi)       0 bara       (0 psi)       3 bara       (43.51 psi)       > 150 barg (>2175 psi)       3 C B       5 C A         colo bara       0870 psi)       0 bara       (0 psi)       2.5 bara (>36.2 psia)       > 5 C A       5 B A         .25 bara       0380 psi)       0 bara       (0 psi)       10 bara       (45.2 psi a)       > 10 bara       > 14 psi a) <t< td=""><td>0</td><td></td><td>0 ( ) 0,</td><td>0 ( 1 0/</td><td>0 1 0,</td><td></td><td></td></t<>	0		0 ( ) 0,	0 ( 1 0/	0 1 0,		
6.barg       (087.0 psig)       -1 barg       (-145.5 psig)       15 barg       (-217.5 psig)       >       386         10 barg       (0145.5 psig)       -1 barg       (-145.5 psig)       25 barg       (-362.5 paig)       3CA         15 barg       (0232.5 psig)       -1 barg       (-145.5 psig)       (-25.5 barg       (-560.5 psig)       3CD         .25 barg       (0870.5 psig)       -1 barg       (-145.5 psig)       150 barg       (-145.5 psig)       3CD         .40 barg       (0870.psig)       -1 barg       (-145.5 psig)       150 barg       (-145.5 psig)       3CD       3CD         .40 barg       (0870.psig)       -1 barg       (-145.5 psig)       150 barg       (-145.5 psig)       3CD       3CD         .40 barg       (0870.psig)       0 bara       (0.psig)       2.5 bara       (-363.3 psig)       SAC         .40 barg       (0870.psig)       0 bara       (0.psig)       2.5 bara       (-363.3 psig)       SAC         .40 barg       (45.psig)       0 bara       (0.psig)       2.5 bara       (-363.3 psig)       SAC         .40 barg       (45.psig)       0 bara       (0.psig)       2.5 bara       (-363.3 psig)       SAC         .60 barg	0 2.5 bar g		0 ( 1 0	01 1 0,	, , , , , , , , , , , , , , , , , , , ,		
10 barg       ()	0 6 bar g				0 ( 1 0)		
16 barg       (0232 psig)       1-barg       (14 5 psig)       40 barg       (580 psig)       > 40 barg       (590 psig)       > 3C 5 arg       (590 psig)       > 3C 6 arg       3C 6 arg<	0 10 bar g	(0 145 nsi a)			> 25 bar q (> 362 psi q)	304	
2.5 barg       (0835 psig)       -1 barg       (-14.5 psig)       (22.5 barg       (9.06 psig)       > 100 barg       (> 145 psig)       3 CC         40 barg       (0 670 psig)       -1 barg       (-14.5 psig)       100 barg       (> 145 psig)       > 100 barg       (> 145 psig)       3 CC         erv version, add order code and plain text: Measuring range: up to bar (psig)       > 100 barg       (> 2175 psig)       3 CA       3 CA         rabsolute pressure       0 bara       (0 psig)       3 bara       (43.51 psig)       > 2.5 bara       (> 36.3 psig)       5 BA         1.5 bara       (0 87 psig)       0 bara       (0 psig)       3 bara       (38.2 psig)       > 2.5 bara       (> 36.3 psig)       5 BA         1.5 bara       (0 87 psig)       0 bara       (0 psig)       4 bara       (21.5 psig)       > 2.5 bara       (> 36.3 psig)       5 BA         2.5 bara       (0 87 psig)       0 bara       (0 psig)       10 bara       (21.7 psig)       5 BB         2.5 bara       (0 87 psig)       0 bara       (0 psig)       > 15 bara       (> 217 psig)       5 BB         2.5 bara       (0 87 psig)       0 bara       (0 psig)       > 15 bara       (> 217 psig)       5 CB         10 bara	0 16 bar g	· · · · ·		0 1 1 0,	0 ( 1 0)		
40 barg       (0580 psig)       -1 barg       (-14.5 psig)       150 barg       (>100 barg       (> 2175 psig))       3 CE         60 barg       (0 870 psig)       -1 barg       (-14.5 psig)       150 barg       (>2175 psig))       3 CE         reversion, add order code and plain text:       Measuring range: up to bar (psig)       > 2.5 bara       (>36.3 psig)       5 BA         rabolute pressure       -0 bara       (0 psig)       3 bara       (43.51 psig)       > 2.5 bara       (>36.3 psig)       5 BA         1 bara       (0 145 psig)       0 bara       (0 psig)       2.5 bara       (>36.3 psig)       5 BB         2.5 bara       (0 36.3 psig)       0 bara       (0 psig)       16 bara       (0 87.0 psig)       5 BB         2.5 bara       (0 86.0 psig)       0 bara       (0 psig)       15 bara       (>2145 psig)       5 BB         2.5 bara       (0 86.0 psig)       0 bara       (0 psig)       15 bara       (>2145 psig)       5 BB         1 0 bara       (0 86.0 psig)       0 bara       (0 psig)       10 bara       (145 psig)       5 BC       5 BC         1 0 bara       (0 86.0 psig)       0 bara       (0 psig)       16 bara       (0 psig)       5 BC       5 BC     <	0 25 bar g			0 1 1 0,	<b>o</b> ( <b>o</b> )		
her version, add order code and plain text: Measuring range: up to bar (psig)       9 A A         r absolute pressure       600 bara (0, psia)       3 bara (43.51 psia)       > 2.5 bara (5.36.3 psia)       > 5.4 G         600 bara (0,87 psia)       0 bara (0 psia)       2.5 bara (36.2 psia)       > 2.5 bara (5.36.3 psia)       > 5.8 A G         1.6 bara (0,23.2 psia)       0 bara (0 psia)       2.5 bara (36.2 psia)       > 4 bara (5.80 opsia)       > 5.8 B         2.5 bara (0,36.3 psia)       0 bara (0 psia)       10 bara (145 psia)       > 10 bara (c > 145 psi)       > 5.8 B         2.5 bara (0,36.3 psia)       0 bara (0 psia)       10 bara (145 psia)       > 10 bara (c > 145 psi)       > 5.8 B         2.5 bara (0,45, psia)       0 bara (0 psia)       10 bara (145 psia)       > 10 bara (c > 145 psi)       > 5.6 CA         10 bara (0,145 psi)       0 bara (0 psia)       25 bara (362 psia)       > 40 bara (580 psia)       > 5.0 CA         10 bara (0,145 psi)       0 bara (0 psia)       (35 psig)       (-35 psig)       4BB         (0,15 psig)       (-5.8 psig)       (35 psig)       (-35 psig)       4BB         (0,15 psig)       (-14.5 psig)       (200 psig)       (-200 psig)       4EB         (0,10 psig)       (-14.5 psig)       (200 psig)       (-200 psig)	0 40 bar g	(0 580 psi g)	-1 barg (-14.5 psi g	100 bar g (1450 psi g)	> 100 bar g (> 1450 psi g) 🕨	3 C E	
rabsolute pressure       600 bara (0,87 psia)       0 bara (0 psia)       2 bara (3.57 psia)       > 2.5 bara (> 3.6.3 psia)       > 5 AG         1 bara (0,14.5 psia)       0 bara (0 psia)       2 bara (36.26 psia)       > 2.5 bara (> 3.6.3 psia)       > 5 BA         1.6 bara (0,363 psia)       0 bara (0 psia)       2 bara (36.26 psia)       > 2.5 bara (> 5.6.3 psia)       > 5 BA         2.5 bara (0,363 psia)       0 bara (0 psia)       6.25 bara (90.65 psia)       > 6.25 bara (> 5.6.2 psia)       > 5 BB         2.6 bara (0,363 psia)       0 bara (0 psia)       15 bara (127 psia)       > 10 bara (> 145 psia)       > 5 BB         1.6 bara (0,362 psia)       0 bara (0 psia)       15 bara (127 psia)       > 10 bara (> 145 psia)       > 5 BB         1.6 bara (0,322 psi)       0 bara (0 psia)       125 bara (362 psia)       > 25 bara (> 25 bara (> 25 bara)       > 5 C B         1.6 bara (0,322 psi)       0 bara (0 psia)       (25 psig)       (> 35 psig)       4 bara       > 40 bara       > 5 C B         1.6 bara (0,322 psi)       0 bara (0 psia)       (145 psig)       ((35 psig)       > 5 BB       5 BB         (0,20 psig)       (-15 psig)       (140 psig)       (-14 psig)       4BB       4BE       4BE       4BE         (0,20 psig)       (-14.5 psig) <td< td=""><td>0 60 bar g</td><td>(0 870 psi g)</td><td>-1 bar g (-14.5 psi g</td><td>150 bar g (2175 psi g)</td><td>&gt; 150 bar g (&gt; 2175 psi g) 🕨</td><td>3 C G</td><td></td></td<>	0 60 bar g	(0 870 psi g)	-1 bar g (-14.5 psi g	150 bar g (2175 psi g)	> 150 bar g (> 2175 psi g) 🕨	3 C G	
600 bara       (087 psia)       (0 bara       (0 psia)       (25 bara       (36 3 psia)       (54 G state)         1 bara       (045 psia)       (0 bara       (0 psia)       (25 bara       (36 2 psia)       (26 0 stata)       (26 0 stata) <td>Other version</td> <td>, add order code a</td> <td>and plain text: Measur</td> <td>ing range: up to bar</td> <td>(psi g)</td> <td>9 A A</td> <td>H 1 Y</td>	Other version	, add order code a	and plain text: Measur	ing range: up to bar	(psi g)	9 A A	H 1 Y
1 bara       (0145 psi a)       0 bara       (0 psi a)       2.5 bara       (36.26 psi a)       > 2.5 bara       (> 36.3 psi a)       > 5 BA         1.6 bara       (022, 2psi a)       0 bara       (0 psi a)       4 bara       (58.0 psi a)       > 2.5 bara       (> 90.7 psi a)       5 BB         2.5 bara       (036.3 psi a)       0 bara       (0 psi a)       10 bara       (145 psi a)       > 10 bara       (> 145 psi a)       5 BE         4 bara       (087.0 psi a)       0 bara       (0 psi a)       25 bara       (362 psi a)       5 SBE         10 bara       (087.0 psi a)       0 bara       (0 psi a)       25 bara       (580 psi a)       > 5 bara       (> 362 psi a)       5 SBE         10 bara       (0145 psi )       0 bara       (0 psi a)       25 bara       (580 psi a)       > 26 bara       (> 580 psi a)       5 CB         erversion, add order code       autority       for Bargi a)       (< 58 psi g)		•					
1.16 bara       (032.2 psia)       0 bara       (0 psia)       4 bara       (62.0 2 psia)       > 4 bara       (> 58.0 psia)       > 58 B         2.5 bara       (036.3 psia)       0 bara       (0 psia)       10 bara       (145 psia)       > 10 bara       (> 145 psia)       > 58 B         4 bara       (058.0 psia)       0 bara       (0 psia)       10 bara       (145 psia)       > 10 bara       (> 145 psia)       > 58 B         10 bara       (0145 psi)       0 bara       (0 psia)       25 bara       (2 psia)       > 25 bara       (> 250 psia)       > 5C B         16 bara       (0145 psi)       0 bara       (0 psia)       25 bara       (2 sto psia)       > 25 bara       (> 362 psia)       > 5C B         erv version, add order code       and plain text: Measuring range: up to mbara       (psia)       (> 40 bara       (2 sto psig)       (> 40 bara       (> 50 psig)       4B B         (030 psig)       (-5.8 psig)       (35 psig)       (35 psig)       (> 40 psig)       4B B       4C A         (030 psig)       (-14.5 psig)       (200 psig)       (> 140 psig)       (> 200 psig)       4C A         (030 psig)       (-14.5 psig)       (200 psig)       (> 140 psig)       (> 200 psig)       4C B			( 1 )	· · · /			
2.2.5 bara       (036.3 psia)       0 bara       (0 psia)       6.25 bara       (90.65 psia)       > 6,25 bara       (> 0.7 psia)       > 5 BD         4 bara       (036.0 psia)       0 bara       (0 psia)       10 bara       (145 psia)       > 10 bara       (> 145 psia)       > 5 BE         .6 bara       (0370 psia)       0 bara       (0 psia)       15 bara       (217 psia)       > 15 bara       (> 145 psi)       > 5 CCA         .10 bara       (0322 psi)       0 bara       (0 psia)       25 bara       (362 psia)       > 25 bara       (> 362 psia)       > 5 CCB         ner version, add order code and plain text: Measuring range: up to mbara       (> 363 psig)       (> 35 psig)       40 bara       (> 35 psig)       4BB         (015 psig)       (-5.8 psig)       (35 psig)       (> 580 psig)       4BB         (015 psig)       (-5.8 psig)       (30 psig)       (> 140 psig)       4BB         (015 psig)       (-14.5 psig)       (140 psig)       (> 140 psig)       4BB         (020 psig)       (-14.5 psig)       (140 psig)       (> 140 psig)       4CB         (020 psig)       (-14.5 psig)       (140 psig)       (> 580 psig)       4CB         (020 psig)       (-14.5 psig) <t< td=""><td>0 1 bar a</td><td></td><td>( I )</td><td>· · · /</td><td>, , , ,</td><td></td><td></td></t<>	0 1 bar a		( I )	· · · /	, , , ,		
4 bar a       (0580.0 psi a)       0 bar a       (0 psi a)       10 bar a       (145 psi a)       > 10 bar a       (> 145 psi a)       > 5 BE         6 bar a       (070 psi a)       0 bar a       (0 psi a)       15 bar a       (> 217 psi a)       > 5 BC         10 bar a       (0145 psi)       0 bar a       (0 psi a)       25 bar a       (> 362 psi a)       > 25 bar a       (> 580 psi a)       > 5 CA         16 bar a       (0232 psi)       0 bar a       (0 psi a)       25 bar a       (> 362 psi a)       > 5 CB         asuring ranges for gauge pressure (only for US market)         (015 psi g)       (-5.8 psi g)       4BB         (016 psi g)       (-15.5 psi g)       (-5.8 psi g)       (-5.8 psi g)       (-5.8 psi g)       4BE         (020 psi g)       (-14.5 psi g)       (140 psi g)       (-14.5 psi g)       (200 psi g)       (-200 psi g)       4CB         (030 psi g)       (-14.5 psi g)       (200 psi g)       (> 500 psi g)       4CB       4CB         (030 psi g)       (-14.5 psi g)       (200 psi g)       (> 500 psi g)       4CB       4CB         (030 psi g)       (-14.5 psi g)       (2000 psi g)		,	( I )				
16 bar a       0 87.0 psi a)       0 bar a       0 psi a)       15 bar a       (217 psi a)       > 15 bar a       (> 217 psi a)       >       5 B G         10 bar a       0 145 psi )       0 bar a       0 psi a)       25 bar a       (362 psi a)       > 25 bar a       (> 362 psi a)       >       5 C B         16 bar a       0 232 psi)       0 bar a       0 psi a)       40 bar a       (> 580 psi a)       > 40 bar a       (> 580 psi a)       >       5 C B         asuring ranges for gauge presure (only for US market)       (35 psi g)       (> 55 psi g)       4B B       4B C       4B C       4B C         (0 20 psi g)       (-5.8 psi g)       (35 psi g)       (> 50 psi g)       4B B       4B C       4C C       4B C       4C C<			,				
10 bara       0 145 psi)       0 bara       0 psia)       25 bara       (362 psia)       > 25 bara       (>362 psia)       > 5 CA         16 bara       0 222 psi)       0 bara       0 psia)       25 bara       (S40 psia)       > 25 bara       (>560 psia)       > 5 CA         asuring ranges for gauge pressure (only for US market)         (0 15 psig)       (-58 psig)       (35 psi g)       (>35 psi g)       48 bB         (3 15 psi g)       (-58 psi g)       (35 psi g)       (>35 psi g)       48 BC         (0 30 psi g)       (-58 psi g)       (35 psi g)       (>30 psi g)       4B B         (0 100 psi g)       (-115 psi g)       (140 psi g)       (>140 psi g)       4B B         (0 100 psi g)       (-145 psi g)       (350 psi g)       (>500 psi g)       4C B         (0 300 psi g)       (-145 psi g)       (200 psi g)       (>2000 psi g)       4C B         (0 300 psi g)       (-145 psi g)       (2000 psi g)       (>1400 psi g)       4C B         (0 300 psi g)       (-145 psi g)       (2000 psi g)       (>2000 psi g)       4C B         (0 300 psi g)       (-145 psi g)       (2000 psi g)       (>2000 psi g)       4C B         (0 100 psi g)       (-145 psi g)		,	( I )		· · · · ·		
16 bar a       (0232 psi)       0 bar a       (0 psi a)       40 bar a       (580 psi a)       > 40 bar a       (> 580 psi a)       > 5 C B         ber version, add order code and plain text: Measuring range: up to mbar a (psi a)       9 AA       9 AA         asuring ranges for gauge pressure (only for US market)       (> 35 psi g)       (> 35 psi g)       (> 35 psi g)       (> 35 psi g)       4 BB         (0 15 psi g)       (-5.8 psi g)       (35 psi g)       (> 35 psi g)       4 BD       4 BD         (0 20 psi g)       (-5.8 psi g)       (35 psi g)       (> 50 psi g)       4 BD       4 BD         (0 30 psi g)       (-11.5 psi g)       (140 psi g)       (> 200 psi g)       4 BB C       4 BE         (0 150 psi g)       (-14.5 psi g)       (350 psi g)       (> 550 psi g)       4 BE       4 C B         (0 100 psi g)       (-14.5 psi g)       (200 psi g)       (> 550 psi g)       4 C B       4 C B         (0 500 psi g)       (-14.5 psi g)       (2000 psi g)       (> 500 psi g)       4 C B       4 C B         (0 100 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C B       4 C B         (0 100 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C		,	( I )		· · · /		
her version, add order code and plain text: Measuring range: up to mbar a (psi a)       9AA       H1 Y         asuring ranges for gauge pressure (only for US market)       (35 psi g)       (>35 psi g)       48B         (315 psi g)       (-5.8 psi g)       (35 psi g)       (>35 psi g)       4BB         (315 psi g)       (-5.8 psi g)       (35 psi g)       (>35 psi g)       4BC         (020 psi g)       (-5.8 psi g)       (80 psi g)       (>50 psi g)       4BD         (030 psi g)       (-11.5 psi g)       (140 psi g)       (>140 psi g)       4BC         (040 psi g)       (-14.5 psi g)       (200 psi g)       (>200 psi g)       4BC         (0200 psi g)       (-14.5 psi g)       (800 psi g)       (>500 psi g)       4CB         (0300 psi g)       (-14.5 psi g)       (2000 psi g)       (>2000 psi g)       4CB         (0300 psi g)       (-14.5 psi g)       (2000 psi g)       (>2000 psi g)       4CB         (0300 psi g)       (-14.5 psi g)       (2000 psi g)       (>2000 psi g)       4CB         (0300 psi g)       (-14.5 psi g)       (2000 psi g)       (>2000 psi g)       4CB         (0100 psi g)       (0 psi a)       (35 psi a)       (>35 psi a)       6AC         (0100 psi a)	0 16 bar a		,		· · · /		
asuring ranges for gauge pressure (only for US market)         (35 psi g)         (>35 psi g)         (>35 psi g)         (>35 psi g)         (>35 psi g)         (4 B B           (015 psi g)         (-5.8 psi g)         (35 psi g)         (>35 psi g)         (>35 psi g)         4 B B           (020 psi g)         (-5.8 psi g)         (35 psi g)         (>50 psi g)         4 B C           (020 psi g)         (-5.8 psi g)         (80 psi g)         (>50 psi g)         4 B E           (030 psi g)         (-11.5 psi g)         (140 psi g)         (>140 psi g)         (>140 psi g)         4 B F           (0150 psi g)         (-14.5 psi g)         (200 psi g)         (>50 psi g)         4 C A           (0200 psi g)         (-14.5 psi g)         (800 psi g)         (>800 psi g)         4 C B           (0300 psi g)         (-14.5 psi g)         (2000 psi g)         (>2000 psi g)         4 C E           (0300 psi g)         (-14.5 psi g)         (2000 psi g)         (>2000 psi g)         4 C E           (0300 psi g)         (-14.5 psi g)         (2000 psi g)         (>2000 psi g)         4 C E           (0300 psi g)         (-14.5 psi g)         (2000 psi g)         (>2000 psi g)         4 C E           (0100 psi a)         (0 psi a)         (	Other version			,	,		H 1 Y
(015 psig)       (-5.8 psig)       (35 psig)       (> 35 psig)       4BB         (315 psig)       (-5.8 psig)       (35 psig)       (> 35 psig)       4BC         (020 psig)       (-5.8 psig)       (50 psig)       (> 50 psig)       4BD         (020 psig)       (-5.8 psig)       (60 psig)       (> 80 psig)       4BD         (030 psig)       (-11.5 psig)       (140 psig)       (> 140 psig)       4BF         (0150 psig)       (-14.5 psig)       (200 psig)       (> 200 psig)       4BG         (0150 psig)       (-14.5 psig)       (350 psig)       (> 550 psig)       4CA         (0150 psig)       (-14.5 psig)       (350 psig)       (> 550 psig)       4CB         (0100 psig)       (-14.5 psig)       (800 psig)       (> 580 psig)       4CB         (0100 psig)       (-14.5 psig)       (200 psig)       (> 2000 psig)       4CB         (0100 psig)       (-14.5 psig)       (200 psig)       (> 2000 psig)       4CE         (0100 psig)       (-14.5 psig)       (200 psig)       (> 2000 psig)       4CG         (0100 psig)       (0 psia)       (35 psia)       (> 35 psia)       6AG         (0100 psia)       (0 psia)       (35 psia)       (> 35			•	0 0 1		-	
(315 psig)       (5.8 psig)       (35 psig)       (> 35 psig)       4 B C         (020 psig)       (-5.8 psig)       (50 psig)       (> 50 psig)       4 B D         (030 psig)       (-5.8 psig)       (80 psig)       (> 80 psig)       4 B E         (030 psig)       (-5.8 psig)       (80 psig)       (> 140 psig)       4 B F         (0100 psig)       (-14.5 psig)       (200 psig)       (> 200 psig)       4 B G         (0100 psig)       (-14.5 psig)       (350 psig)       (> 550 psig)       4 C A         (0200 psig)       (-14.5 psig)       (350 psig)       (> 550 psig)       4 C B         (0200 psig)       (-14.5 psig)       (350 psig)       (> 800 psig)       4 C B         (0200 psig)       (-14.5 psig)       (2000 psig)       (> 800 psig)       4 C B         (0300 psig)       (-14.5 psig)       (2000 psig)       (> 2000 psig)       4 C B         (0100 psig)       (-14.5 psig)       (2000 psig)       (> 2000 psig)       4 C G         (0100 psia)       (0 psia)       (35 psia)       (> 35 psia)       6 A G         (0100 psia)       (0 psia)       (35 psia)       (> 35 psia)       6 B B         (010 psia)       (0 psia)       (35 psia	incucating ra		· •	,	(> 35 psi g)	4 B B	
(030 psig)       (-5.8 psig)       (80 psig)       (> 80 psig)       4BE         (060 psig)       (-11.5 psig)       (140 psig)       (> 140 psig)       4BF         (0100 psig)       (-14.5 psig)       (200 psig)       (> 200 psig)       4BG         (0150 psig)       (-14.5 psig)       (350 psig)       (> 350 psig)       4CA         (0200 psig)       (-14.5 psig)       (550 psig)       (> 550 psig)       4CB         (0200 psig)       (-14.5 psig)       (800 psig)       (> 500 psig)       4CB         (0300 psig)       (-14.5 psig)       (800 psig)       (> 800 psig)       4CB         (0500 psig)       (-14.5 psig)       (2000 psig)       (> 1400 psig)       4CE         (0500 psig)       (-14.5 psig)       (2000 psig)       (> 2000 psig)       4CE         (0750 psig)       (-14.5 psig)       (2000 psig)       (> 2000 psig)       4CE         (0100 psig)       (-14.5 psig)       (2000 psig)       (> 2000 psig)       4CF         (0100 psia)       (0 psia)       (35 psia)       (> 35 psia)       6AG         (010 psia)       (0 psia)       (35 psia)       (> 35 psia)       6AG         (010 psia)       (0 psia)       (35 psia)       <		(3 15 psi g)			(> 35 psi g)	4 B C	
(060 psi g)       (-11.5 psi g)       (140 psi g)       (> 140 psi g)       (> 200 psi g)       (> 200 psi g)       (> 200 psi g)       (> 14.5 psi g)       (200 psi g)       (> 350 psi g)       (> 4CA         (0 200 psi g)       (-14.5 psi g)       (140 psi g)       (> 550 psi g)       (> 1400 psi g)       (< 1400 psi g)		(0 20 psi g)	(-5.8 psi g)	(50 psi g)	(> 50 psi g)	4 B D	
(0 100 psi g)       (-14.5 psi g)       (200 psi g)       (> 200 psi g)       4 B G         (0 150 psi g)       (-14.5 psi g)       (350 psi g)       (> 350 psi g)       4 C A         (0 200 psi g)       (-14.5 psi g)       (550 psi g)       (> 550 psi g)       4 C B         (0 200 psi g)       (-14.5 psi g)       (550 psi g)       (> 550 psi g)       4 C B         (0 200 psi g)       (-14.5 psi g)       (800 psi g)       (> 800 psi g)       4 C B         (0 300 psi g)       (-14.5 psi g)       (1400 psi g)       (> 1400 psi g)       4 C E         (0 750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C E         (0 750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         (0 100 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         asuring ranges for absolute pressure (only for US market)       (> 2000 psi a)       (> 35 psi a)       6 B A         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 20 psi a)       (0 psi a)       (35 psi a)       (> 50 psi a)       6 B B		(0 30 psi g)	(-5.8 psi g)	(80 psi g)	(> 80 psi g)	4 B E	
(0 150 psi g)       (-14.5 psi g)       (350 psi g)       (> 350 psi g)       4 C A         (0 200 psi g)       (-14.5 psi g)       (550 psi g)       (> 550 psi g)       4 C B         (0 300 psi g)       (-14.5 psi g)       (800 psi g)       (> 800 psi g)       4 C D         (0 300 psi g)       (-14.5 psi g)       (1400 psi g)       (> 1400 psi g)       4 C E         (0 500 psi g)       (-14.5 psi g)       (1400 psi g)       (> 1400 psi g)       4 C E         (0 750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         (0 100 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         asuring ranges for absolute pressure (only for US market)       (2000 psi a)       (> 35 psi a)       6 A G         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 20 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 20 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B B         (0 100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B B		(0 60 psi g)	(-11.5 psi g	(140 psi g)	(> 140 psi g)	4 B F	
(0200 psi g)       (-14.5 psi g)       (550 psi g)       (> 550 psi g)       4 C B         (0300 psi g)       (-14.5 psi g)       (800 psi g)       (> 800 psi g)       4 C D         (0500 psi g)       (-14.5 psi g)       (1400 psi g)       (> 1400 psi g)       4 C E         (0750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C E         (0750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         (01000 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         ner version, add order code and plain text: Measuring range: up to psi g       9 A A       9 A A         asuring ranges for absolute pressure (only for US market)       9 A A       6 B A         (010 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (020 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (030 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B B         (030 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B B         (0100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B B         (0100 psi a)			(-14.5 psi g	) (200 psi g)			
(0300 psi g)       (-14.5 psi g)       (800 psi g)       (> 800 psi g)       4 C D         (0500 psi g)       (-14.5 psi g)       (1400 psi g)       (> 1400 psi g)       4 C E         (0750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C F         (01000 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         (01000 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         (01000 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         er version, add order code and plain text: Measuring range: up to psi g       9 A A       H 1 Y         asuring ranges for absolute pressure (only for US market)       9 A A       6 A G         (010 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (020 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (030 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B B         (030 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B B         (0100 psi a)       (0 psi a)       (350 psi a)       (> 200 psi a)       6 B G         (0100 psi							
Image: Construct on the construction of the constructio							
10 750 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C F         (0 1000 psi g)       (-14.5 psi g)       (2000 psi g)       (> 2000 psi g)       4 C G         her version, add order code and plain text: Measuring range: up to psi g       9 A A       H 1 Y         asuring ranges for absolute pressure (only for US market)       (> 35 psi a)       (> 35 psi a)       6 A G         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B B         (0 20 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (0 30 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B B         (0 20 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B B         (0 30 psi a)       (0 psi a)       (200 psi a)       (> 140 psi a)       6 B B         (0 100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0 100 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 100 psi a)       (0 psi a)       (550 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B		1 0/					
(0 1000 psi g)         (-14.5 psi g)         (2000 psi g)         (> 2000 psi g)         4 C G           her version, add order code and plain text: Measuring range: up to psi g         9 A A         H 1 Y           asuring ranges for absolute pressure (only for US market)         (0 psi a)         (35 psi a)         (> 35 psi a)         6 A G           (0 10 psi a)         (0 psi a)         (35 psi a)         (> 35 psi a)         6 B A         6 B B           (0 20 psi a)         (0 psi a)         (50 psi a)         (> 50 psi a)         6 B B         6 B B           (0 30 psi a)         (0 psi a)         (140 psi a)         (> 140 psi a)         6 B B         6 B B           (0 100 psi a)         (0 psi a)         (200 psi a)         (> 200 psi a)         6 B B         6 B B           (0 30 psi a)         (0 psi a)         (200 psi a)         (> 140 psi a)         6 B B         6 B B           (0 100 psi a)         (0 psi a)         (200 psi a)         (> 350 psi a)         6 B B         6 C A           (0 100 psi a)         (0 psi a)         (550 psi a)         (> 350 psi a)         6 C A           (0 200 psi a)         (0 psi a)         (550 psi a)         (> 550 psi a)         6 C B           (0 200 psi a)         (0 psi a)<		· · · · ·		1 0,			
ner version, add order code and plain text: Measuring range: up to psi g         9 A A         H 1 Y           asuring ranges for absolute pressure (only for US market)         (0 psi a)         (35 psi a)         (> 35 psi a)         6 A G           (0 10 psi a)         (0 psi a)         (35 psi a)         (> 35 psi a)         6 B A         6 B B         6 C A         6 C A         6 C B         6 C B <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
asuring ranges for absolute pressure (only for US market)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 A G         (0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B A         (0 15 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B A         (0 20 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (0 30 psi a)       (0 psi a)       (80 psi a)       (> 80 psi a)       6 B D         (0 60 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B E         (0 100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0 100 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 150 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0 300 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C	Other version		1	I			L 1 V
(0 10 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 A G         (0 15 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B A         (0 20 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (0 30 psi a)       (0 psi a)       (80 psi a)       (> 80 psi a)       6 B B         (0 40 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B E         (0 100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0 100 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 100 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 100 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0 300 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C					y		
(0 15 psi a)       (0 psi a)       (35 psi a)       (> 35 psi a)       6 B A         (0 20 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (0 30 psi a)       (0 psi a)       (80 psi a)       (> 80 psi a)       6 B D         (0 60 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B E         (0 100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0 150 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0 300 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C	measuring ra	•	• • •	•	(> 35 nsi a)	6 A G	
(020 psi a)       (0 psi a)       (50 psi a)       (> 50 psi a)       6 B B         (030 psi a)       (0 psi a)       (80 psi a)       (> 80 psi a)       6 B D         (060 psi a)       (0 psi a)       (140 psi a)       (> 140 psi a)       6 B E         (0100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0100 psi a)       (0 psi a)       (200 psi a)       (> 200 psi a)       6 B G         (0150 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0200 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C							
(0 30 psi a)         (0 psi a)         (80 psi a)         (> 80 psi a)         6 B D           (0 60 psi a)         (0 psi a)         (140 psi a)         (> 140 psi a)         6 B E           (0 100 psi a)         (0 psi a)         (200 psi a)         (> 200 psi a)         6 B G           (0 100 psi a)         (0 psi a)         (200 psi a)         (> 350 psi a)         6 B G           (0 150 psi a)         (0 psi a)         (350 psi a)         (> 350 psi a)         6 C A           (0 200 psi a)         (0 psi a)         (550 psi a)         (> 550 psi a)         6 C B           (0 300 psi a)         (0 psi a)         (800 psi a)         (> 800 psi a)         6 C C		( )			,		
(0 100 psi a)(0 psi a)(200 psi a)(> 200 psi a)6 B G(0 150 psi a)(0 psi a)(350 psi a)(> 350 psi a)6 C A(0 200 psi a)(0 psi a)(550 psi a)(> 550 psi a)6 C B(0 300 psi a)(0 psi a)(800 psi a)(> 800 psi a)6 C C							
(0 150 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0 300 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C		(0 60 psi a)	(0 psi a)	(140 psi a)	(> 140 psi a)	6 B E	
(0 150 psi a)       (0 psi a)       (350 psi a)       (> 350 psi a)       6 C A         (0 200 psi a)       (0 psi a)       (550 psi a)       (> 550 psi a)       6 C B         (0 300 psi a)       (0 psi a)       (800 psi a)       (> 800 psi a)       6 C C		(0 100 psi a)	(0 psi a)	(200 psi a)	(> 200 psi a)	6 B G	
(0 300 psi a) (0 psi a) (800 psi a) (> 800 psi a) <b>6 C C</b>					(> 350 psi a)		
		· · · · ·					
		(0 300 psi a)	(0 psi a)	(800 psi a)	(> 800 psi a)		
her version, add order code and plain text: Measuring range: up to psi a <b>9</b> A H 1 Y	Other version	, add order code a	and plain text: Measur	ing range: up to psi	а	9 A A	H 1 Y

### **SITRANS P200**

2

Selection and ordering data		Order No.	Urde	er code
SITRANS P 200 pressure transmitters for pressure and absolute pressure for general applications Characteristic curve deviation typ. 0.25 %	S	7MF1565-	-	
Wetted parts materials: Ceramic and stainless steel + sealing material				
Non-wetted parts materials: stainless steel				
Output signal				
4 20 mA; two-wire system; power supply 7 33 V DC (10 30 V DC for ATEX versions) 0 10 V; three-wire system; power supply 12 33 V DC		0 1 0		
Explosion protection (only 4 20 mA)				
None		0		
With explosion protection EEx ia IIC T4	►	1		
Electrical connection				
Connector per DIN EN 175301-803-A, stuffing box thread M16 (with coupling) Round connector M12 per DIN EN 60139-9 (not for gauge pressure ranges ≤ 16 bar) Connection via fixed mounted cable, 2m (not for type of protection "Intrinsic safety i") Cable quick screw connection PG9 (not for type of protection "Intrinsic safety i") Connector per DIN EN 175301-803-A, stuffing box thread 1/2"-14 NPT (with coupling) Connector per DIN EN 175301-803-A, stuffing box thread PG11 (with coupling) Special version	•	0 0	1 2 3 4 5 6 9	N1Y
Process connection				
G½" male per EN 837-1 (½" BSP male) (standard for metric pressure ranges mbar, bar) G½" male thread and G1/8" female thread G¼" male per EN 837-1 (¼" BSP male) 7/16"-20 UNF male			A B C D	
¼"-18 NPT male (standard for pressure ranges inH <sub>2</sub> O and psi) ¼"-18 NPT female ½"-14 NPT male ½"-14 NPT female 7/16"-20 UNF female M20x1.5 male			E F H J P	
Special version			z	P 1 Y
Sealing material between sensor and enclosure				
Viton (FPM, standard) Neoprene (CR) Perbunan (NBR) EPDM Special version	•		A B C D Z	Q1Y
Version				
Standard version			1	
Further designs				
Supplement the order no. with "-Z" and add order code.				
Manufacturer's test certificate M per DIN 55340, Part 18 and ISO 8402 (calibration certificate) supplied		C11		
Oxygen application, oil and grease-free cleaning ( only in conjunction with the sealing material Viton between sensor and enclosure) Available ex stock		E10		

### **SITRANS P200**

### Dimensional drawings



SITRANS P200, electrical connections, dimensions in mm (inch)



🗞 max. 20 Nm

SITRANS P200, process connections, dimensions in mm (inch)

### SITRANS P200

### Schematics



Connection with current output and connector per EN 175301



Connection with current output and connector M12x1



Connection with current output and cable



Connection with current output and cable quick screw connection

### Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with voltage output and connector per EN 175301



Connection with voltage output and connector M12x1



Connection with voltage output and cable



Connection with voltage output and cable quick screw connection



Connection with current output and connector M12x1 (Ex)

### **SITRANS P210**

### Overview



The pressure transmitter SITRANS P210 measures the gauge pressure of liquids, gases and vapors.

- Stainless steal measuring cell
- Measuring ranges 100 to 600 mbar (1.45 to 8.7 psi) relative
- For low-pressure applications

### Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- · High overload withstand capability
- · For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- · Compact design

### Application

The pressure transmitter SITRANS P210 for gauge pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- · Water supply

#### Design

#### Device structure without explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a round plug M12 (IP67), a cable (IP67) or a cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

#### Device structure with explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65) or a round plug M12 (IP67) connected electrically. The output signal is between 4 and 20 mA.

#### Function

The pressure transmitter measures the gauge pressure of liquids and gases as well as the level of liquids.

#### Mode of operation



SITRANS P210 pressure transmitters (7MF1566-...), functional diagram

The stainless steel measuring cell has a thin-film resistance bridge to which the operating pressure p is transmitted through a stainless steel diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

### **SITRANS P210**

Technical specifications

Application	
Gauge measurement	Liquids, gases and vapors
Mode of operation	
Measuring principle	Piezoresistive measuring cell (stainless steel diaphragm)
Measured variable	Gauge pressure
Inputs	
Measuring range	
Gauge pressure	100 600 mbar g (1.5 8.7 psi g)
Output	
Current signal	4 20 mA
• Load	(U <sub>B</sub> - 10 V) / 0.02 A
<ul> <li>Auxiliary power U<sub>B</sub></li> </ul>	DC 7 33 V (10 30 V for Ex)
Voltage signal	0 10 V DC
• Load	$\geq$ 10 k $\Omega$
<ul> <li>Auxiliary power U<sub>B</sub></li> </ul>	12 33 V DC
<ul> <li>Power consumption</li> </ul>	< 7 mA at 10 k $\Omega$
Characteristic curve	Linear rising
Measuring accuracy	
Error in measurement at 25 °C (77 °F), including conformity error,	<ul> <li>Typical: 0.25 % of full-scale value</li> </ul>
hysteresis and repeatability	<ul> <li>Maximum: 0.5 % of full-scale value</li> </ul>
Setting time T99	< 0.1 s
Long-term drift	
• Lower range value and measuring span	0.25 % of full-scale value/year
Influence of ambient temperature	
Lower range value and measuring span	<ul> <li>0.25 %/10 K of full-scale value</li> <li>0.5 %/10K of full-scale value for a measuring range 100 400 mbar</li> </ul>
<ul> <li>Influence of power supply</li> </ul>	0.005 %/V
Conditions of use	
Process temperature with gasket made of:	
• FPM (Standard)	-15 +125 °C (+5 +257 °F)
Neoprene	-35 +100 °C (-31 +212 °F)
• Perbunan	-20 +100 °C (-4 +212 °F)
• EPDM	-40 +145 °C (-40 +293 °F), usable for drinking water
Ambient temperature	-25 +85 °C (-13 +185 °F)
Storage temperature	-50 +100 °C (-58 +212 °F)
Degree of protection (to EN 60529)	<ul> <li>IP 65 with connector per EN 175301-803-A</li> </ul>
	<ul> <li>IP 67 with M12 connector</li> </ul>
	IP 67 with cable
	IP 67 with cable quick screw connection
Electromagnetic compatibility	<ul> <li>acc. EN 61326-1/-2/-3</li> <li>acc. NAMUR NE21, only for ATEX versions and with a max. measuring deviation &lt; 1 %</li> </ul>

measuring deviation  $\leq$  1 %

Design	
Weight	Approx. 0.090 kg (0.198 lb)
Process connections	See dimension drawings
Electrical connections	• Connector per EN 175301-803-A Form A with cable inlet M16x1.5 or ½-14 NPT or Pg 11
	M12 connector
	<ul> <li>2 or 3-wire (0.5 mm<sup>2</sup>) cable (Ø ± 5.4 mm)</li> </ul>
	<ul> <li>Cable quick screw connection</li> </ul>
Wetted parts materials	
Measuring cell	Stainless steel, matNo. 1.4435
Process connection	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Gasket	<ul> <li>FPM (Standard)</li> </ul>
	Neoprene
	Perbunan     EPDM
Non-wattad parts materials	• EPDM
Non-wetted parts materials	Otaliala as ato al most Nia d 4404
Enclosure	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Rack	Plastic
• cables	PVC
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; meets requirements as per article
	3, paragraph 3 (good engineering practice)
Lloyds Register of Shipping (LR)	Applied
Germanischer Lloyds Register of Shipping (GL)	Applied
American Bureau of Shipping (ABS)	Applied
Bureau Veritas (BV)	Applied
Det Norske Veritas (DNV)	Applied
Drinking water approval (ACS)	Applied
GOST	Applied
Explosion protection	
Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125 °C Da/Db
EC type-examination certificate	SEV 10 ATEX 0146
Connection to certified intrinsically- safe resistive circuits with maxi- mum values:	$U_i \leq$ 30 V DC; $I_i \leq$ 100 mA; $P_i \leq$ 0.75 W
Effective internal inductance and capacity for versions with plugs per EN 175301-803-A and M12	$L_i = 0 \text{ nH}; C_i = 0 \text{ nF}$

SITRANS P210

Selection and ordering data				Order No.	Ord	er code
SITRANS P 210 pressure tra Characteristic curve deviation		ure for low pressure appl	ications	7MF1566-		
Wetted parts materials: Ceram		ling material				
Non-wetted parts materials: st	ainless steel		<u> </u>			
Measuring range	Overload limit		Burst pressure			
	Min.	Max.				
For gauge pressure			L	-		
0 100 mbar g (0 1.45 psi 0 160 mbar g (0 2.32 psi 0 250 mbar g (0 3.63 psi 0 400 mbar g (0 5.80 psi 0 600 mbar g (0 8.70 psi	g) -40 mbar g (-0.58 psi g) g) -80 mbar g (-1.16 psi g) g) -80 mbar g (- 1.16 psi g)	250 mbar g (3.63 psi g) 400 mbar g (5.80 psi g) 625 mbar g (9.06 psi g) 1000 mbar g (14.50 psi g) 1500 mbar g (21.75 psi g)	<b>o</b> ( <b>i o</b> ,	3 A B 3 A C		
Other version, add order code Measuring range: up to n				9 A A		H 1 Y
Output signal				_		
4 20 mA; two-wire system; p 0 10 V; three-wire system; p		10 30 V DC for ATEX ver	rsions)		D 1 0	
Explosion protection (only 4	20 mA)			_		
None					0	
With explosion protection EEx	ia IIC 14			_	1	
Electrical connection						
Round connector M12 per DIN Connection via fixed mounted Cable quick screw connection Connector per DIN EN 17530 <sup>-</sup> Connector per DIN EN 17530 <sup>-</sup> Special version	cable, 2 m (not for type of p PG9 (not for type of protec I-803-A, stuffing box thread	protection "Intrinsic safety i" tion "Intrinsic safety i") 1/2"-14 NPT (with coupling	)		2 0 3 0 4 5 6 9	N1Y
Process connection				-		
G <sup>1</sup> / <sub>2</sub> " male per EN 837-1 ( <sup>1</sup> / <sub>2</sub> " B G <sup>1</sup> / <sub>2</sub> " male thread and G1/8" fer G <sup>1</sup> / <sub>4</sub> " male per EN 837-1 ( <sup>1</sup> / <sub>4</sub> " B 7/16"-20 UNF male	male thread	c pressure ranges mbar, b	ar)		A B C D	
1/4"-18 NPT male (standard for 1/4"-18 NPT female 1/2"-14 NPT male 1/2"-14 NPT female 7/16"-20 UNF female M20x1.5 male	pressure ranges inH <sub>2</sub> O and	psi)			E F H J P	
Special version					z	P 1 Y
Sealing material between se	nsor and enclosure					
Viton (FPM, standard) Neoprene (CR) Perbunan (NBR) EPDM Special version			•		A B C D Z	Q1Y
Version Standard version			•	-		1
Further designs						
Supplement the order no. with	"-Z" and add order code					
Manufacturer's test certificate		nd ISO 8402 (calibration of	artificate) supplied	C11		
manulaciulei s lest celtiiiCale	wiper Din 55340, rait 10 a	ווט וטט טייטב (טמווטרמנוטרו טו	er inicate) supplied			

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### Pressure Measurement Transmitters for basic requirements

### **SITRANS P210**

### Dimensional drawings



SITRANS P210, electrical connections, dimensions in mm (inch)



SITRANS P210, process connections, dimensions in mm (inch)

### **SITRANS P210**

### Schematics



Connection with current output and connector per EN 175301



Connection with current output and connector M12x1



Connection with current output and cable



Connection with current output and cable quick screw connection

### Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with voltage output and connector per EN 175301



Connection with voltage output and connector M12x1



Connection with voltage output and cable



Connection with voltage output and cable quick screw connection



Connection with current output and connector M12x1 (Ex)

### **SITRANS P220**

### Overview



The pressure transmitter SITRANS P220 measures the gauge pressure of liquids, gases and vapors.

- Stainless steel measuring cell, fully welded
- Measuring ranges 2.5 to 600 bar (36.3 to 8702 psi) relative
- For high-pressure applications and refrigeration technology division

#### Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- · High overload withstand capability
- · For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- Compact design
- Gasket-less

### Application

The pressure transmitter SITRANS P220 for gauge pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- · Water supply

### Design

### Device structure without explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a round plug M12 (IP67), a cable (IP67) or a cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

#### Device structure with explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65) or a round plug M12 (IP67) connected electrically. The output signal is between 4 and 20 mA.

#### Function

The pressure transmitter measures the gauge pressure of liquids and gases as well as the level of liquids.

#### Mode of operation



SITRANS P220 pressure transmitters (7MF1567-...), functional diagram

The stainless steel measuring cell has a thick-film resistance bridge to which the operating pressure p is transmitted through a stainless steel diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

**SITRANS P220** 

Application		Design	
Gauge pressure measurement	Liquids, gases and vapors	Weight	Approx. 0.090 kg (0.198 lb)
Mode of operation		Process connections	See dimension drawings
Measuring principle	Piezoresistive measuring cell (stainless steel diaphragm)	Electrical connections	Connector per EN 175301-803-A Form A with
Measured variable	Gauge pressure		cable inlet M16x1.5 or ½-14 NPT or Pg 11
Inputs			M12 connector
Measuring range			• 2 or 3-wire (0.5 mm <sup>2</sup> )
<ul> <li>Gauge pressure</li> </ul>			cable (Ø ± 5.4 mm) • Cable guick screw connection
- Metric	2.5 600 bar g (36 8700 psi g)	Wetted parts materials	
- US measuring range	30 8700 psi g	<ul> <li>Measuring cell</li> </ul>	Stainless steel, matNo. 1.4016
Output	4 00 m 4	Process connection	Stainless steel, mat. No. 1.4404 (SST 316 L)
Current signal	4 20 mA	Non-wetted parts materials	(0010101)
Load	$(U_{\rm B} - 10 \text{ V}) / 0.02 \text{ A}$	Enclosure	Stainless steel, mat. No. 1.4404
Auxiliary power U <sub>B</sub>	DC 7 33 V (10 30 V for Ex)		(SST 316 L)
Voltage signal	0 10 V DC	Rack	Plastic
• Load	$\geq$ 10 k $\Omega$	• cables	PVC
Auxiliary power U <sub>B</sub>	12 33 V DC	Certificates and approvals	
Power consumption	$< 7$ mA at 10 k $\Omega$	Classification according to pressure	For gases of fluid group 1 and liq
Characteristic curve	Linear rising	equipment directive (PED 97/23/EC)	uids of fluid group 1; complies with requirements of article 3,
Measuring accuracy		(12001/20/20)	paragraph 3 (sound engineering
Error in measurement at 25 °C (77 °F), including conformity error,	<ul> <li>Typical: 0.25 % of full-scale value</li> </ul>		practice)
hysteresis and repeatability	Maximum: 0.5 % of full-scale	Lloyds Register of Shipping (LR)	Applied
Setting time T99	value < 0.1 s	Germanischer Lloyds Register of Shipping (GL)	Applied
Long-term drift		American Bureau of Shipping (ABS)	Applied
Lower range value and measuring	0.25 % of full-scale value/year	Bureau Veritas (BV)	Applied
span	· · · · · · · · · · · · · · · · · · ·	Det Norske Veritas (DNV)	Applied
Influence of ambient temperature		Drinking water approval (ACS)	Applied
• Lower range value and measuring	0.25 %/10 K of full-scale value	GOST	Applied
<ul><li>span</li><li>Influence of power supply</li></ul>	0.005 %/V	Explosion protection	
Conditions of use	0.005 %/V	Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC
Process temperature	-30 +120 °C (-22 +248 °F)	oupuly	T125 °C Da/Db
Ambient temperature	-25 +85 °C (-13 +185 °F)	EC type-examination certificate	SEV 10 ATEX 0146
Storage temperature	-50 +100 °C (-58 +212 °F)	Connection to certified intrinsically-	$U_i \le 30 \text{ V DC}; I_i \le 100 \text{ mA};$
<ul> <li>Storage temperature</li> <li>Degree of protection (to EN 60529)</li> </ul>		safe resistive circuits with maxi- mum values:	P <sub>i</sub> ≤ 0.75 W
	EN 175301-803-A	Effective internal inductance and	L <sub>i</sub> = 0 nH; C <sub>i</sub> = 0 nF
	<ul> <li>IP 67 with M12 connector</li> <li>IP 67 with cable</li> </ul>	capacity for versions with plugs per EN 175301-803-A and M12	
	IP 67 with cable quick screw connection		
Electromagnetic compatibility	• acc. EN 61326-1/-2/-3		
	• acc. NAMUR NE21, only for		
	ATEX versions and with a max.		

### SITRANS P220

	ordering data				Order No.		r code
applications, f	Pressure transn fully-welded version curve deviation typ	on,	sure, high-pressure and	d refrigeration	7MF1567-	- A	
	naterials: stainless s						
	rts materials: stain						
Measuring rar		Overload limit		Burst pressure			
	.30	Mini-	Max.	Salot probaile			
		mum	WIDX.				
For gauge pre	ssure	ļ	l	ļ			
) 2.5 bar g	(0 36.3 psi g)	-0.8 bar g(-11.6 psi <u>g</u> )	6.25 bar g (90.7 psi g)	25 bar g (363 psi g)	► 3 B D		
) 4 bar g	(0 58 psi g)	-0.8 bar g(-11.6 psi g)	10 bar g (145 psi g)	40 bar g (870 psi g)	► 3 B E		
) 6 bar g	(0 87 psi g)	-1 bar g (-14.5 psi g)	15 bar g (217 psi g)	60 bar g (522 psi g)	► 3 B G		
) 10 bar g	(0 145 psi g)	-1 bar g (-14.5 psi g)	25 bar g (362 psi g)	60 bar g (870 psi g)	► 3 C A		
) 16 bar g	(0 232 psi g)	-1 barg (-14.5 psig)	40 bar g (580 psi g)	96 bar g (1392 psi g)	▶ 3СВ		
) 25 bar g	(0 363 psi g)		62.5 bar g (906 psi g)		3 C D		
) 40 bar g	(0 580 psi g)	-1 barg (-14.5 psig)	0 ( 1 0)		3 C E		
60 bar g	(0 870 psi g)	-1 bar g (-14.5 psi g)			3 C G		
0	(0 1450 psi g)	-1 bar g (-14.5 psi g)			3 D A		
) 100 bar g ) 160 bar g	(0 1450 psi g) (0 2320 psi g)	0 ( 1 0/	250 bar g (3625 psi g) 400 bar g (5801 psi g)	600 bar g (8702 psi g) 960 bar g (13924 psi g)	3 D A 3 D B		
) 250 bar g	(0 2320 psi g) (0 3625 psi g)	0 ( )	625 bar g (9064 psi g)	1500 bar g (13924 psi g)	3 D B 3 D D		
) 250 bar g	(0 5801 psi g)	0 ( 1 0,	<b>S</b> ( 1 <b>S</b> )	2400 bar g (34809 psi g)	3 D D 3 D E		
400 bar g		-1 barg (-14.5 psig)		2400 bar g (34809 psi g) 2500 bar g (36260 psi g)	3 D G		
0			1000 bai g (21700 pai g)	2000 bai g (00200 pol g)			
	add order code an ge: up to bar (r				9 A A		H 1
9		6,			_		
leasuring rar		essure (only for US m		(000)	100		
	(0 30 psi g)	(-5.8 psi g)	(75 psi g)	(360 psi g)	4 B E		
	(0 60 psi g)	(-11.5 psi g)	(150 psi g)	(580 psi g)	4 B F		
	(0 100 psi g)	(-14.5 psi g)	(250 psi g)	(580 psi g)	4 B G 4 C A		
	(0 150 psi g)	(-14.5 psi g)	(375 psi g)	(870 psi g) (1390 psi g)			
	(0 200 psi g)	(-14.5 psi g)	(500 psi g)	(1390 psi g)	4 C B		
	(0 300 psi g)	(-14.5 psi g)	(750 psi g)	(2170 psi g)	4 C D		
	(0 500 psi g)	(-14.5 psi g)	(1250 psi g)	(3480 psi g)	4 C E		
	(0 750 psi g)	(-14.5 psi g)	(1875 psi g)	(5220 psi g)	4 C F		
	(0 1000 psi g)	(-14.5 psi g)	(2500 psi g)	(5220 psi g)	4 C G		
	(0 1500 psi g)	(-14.5 psi g)	(3750 psi g)	(8700 psi g)	4 D A		
	(0 2000 psi g)	(-14.5 psi g)	(5000 psi g)	(13920 psi g)	4 D B		
	(0 3000 psi g)	(-14.5 psi g)	(7500 psi g)	(21750 psi g)	4 D D		
	(0 5000 psi g)	(-14.5 psi g)	(12500 psi g)	(34800 psi g)	4 D E		
	(0 6000 psi g	(-14.5 psi g)	(15000 psi g)	(34800 psi g)	4 D F		
	(0 8700 psi g)	(-14.5 psi g)	(21000 psi g)	(52200 psi g)	4 D G		
)ther version,	add order code an	d plain text: Measuring	range: up to psi g		9 A A		H1'
Output signal							
			(10 30 V DC for ATEX	versions)		0	
		er supply 12 33 V D0	J		<u> </u>	10	
Explosion pro	tection (only 4 2	20 mA)					
None					►	0	
With explosion	protection EEx ia I	IC T4			►	1	
Electrical con	nection						
Connector per	DIN EN 175301-80	3-A, stuffing box threa	d M16 (with coupling)		•	1	
			ge pressure ranges $\leq 16$	bar)		2	
			f protection "Intrinsic safe			0 3	
			ection "Intrinsic safety i")	·J · /		0 4	
			d 1/2"-14 NPT (with coup	lina)		5	
			d PG11 (with coupling)	·····9/		6	
Special versior		o-A, stunning box tillea	a ran (with coupling)			9	N 1
peciai veisi0i	1					9	14.1

Available ex stock

2

SITRANS P220

Selection and ordering data	Order No.	Order code
SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version characteristic curve deviation typ. 0.25 %	7M F 1 5 6 7 -	- A
Wetted parts materials: stainless steel		
Non-wetted parts materials: stainless steel		
Process connection		
G½" male per EN 837-1 (½" BSP male) (standard for metric pressure ranges mbar, bar) G½" male thread and G1/8" female thread G¼" male per EN 837-1 (¼" BSP male) 7/16"-20 UNF male	•	A B C D
¼"-18 NPT male (standard for pressure ranges inH <sub>2</sub> O and psi) ¼"-18 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ½"-14 NPT male ½"-14 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) 7/16"-20 UNF female M20x1.5 male		E F H J P
Special version		Z P 1 Y
Version Standard version	•	1
Further designs		
Supplement the order no. with "-Z" and add order code.		
Manufacturer's test certificate M per DIN 55340, Part 18 and ISO 8402 (calibration certificate) supplied	C11	
Oxygen application, oil and grease-free cleaning	E10	

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### Pressure Measurement Transmitters for basic requirements

### **SITRANS P220**

### Dimensional drawings



SITRANS P220, electrical connections, dimensions in mm (inch)



### **SITRANS P220**

### Schematics



Connection with current output and connector per EN 175301



Connection with current output and connector M12x1



Connection with current output and cable



Connection with current output and cable quick screw connection

### Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with voltage output and connector per EN 175301



Connection with voltage output and connector M12x1



Connection with voltage output and cable



Connection with voltage output and cable quick screw connection



Connection with current output and connector M12x1 (Ex)





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