

# Pressure Measurement

## Transmitters for basic requirements

### SITRANS P220 for gauge pressure

1

**Selection and ordering data**

Article No.

Order code

**SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version**

7MF1567- - - - - A

Accuracy typ. 0.25 %

Wetted parts materials: stainless steel

Non-wetted parts materials: stainless steel

Measuring range	Overload limit		Burst pressure	
	Mini- mum	Max.		

**For gauge pressure**

0 ... 2.5 bar (0 ... 36.3 psi)	-1 bar (-14.5 psi)	6.25 bar (90.7 psi)	25 bar (363 psi)	▶◆	3BD
0 ... 4 bar (0 ... 58 psi)	-1 bar (-14.5 psi)	10 bar (145 psi)	40 bar (870 psi)	▶◆	3BE
0 ... 6 bar (0 ... 87 psi)	-1 bar (-14.5 psi)	15 bar (217 psi)	60 bar (522 psi)	▶◆	3BG
0 ... 10 bar (0 ... 145 psi)	-1 bar (-14.5 psi)	25 bar (362 psi)	60 bar (870 psi)	▶◆	3CA
0 ... 16 bar (0 ... 232 psi)	-1 bar (-14.5 psi)	40 bar (580 psi)	96 bar (1392 psi)	▶◆	3CB
0 ... 25 bar (0 ... 363 psi)	-1 bar (-14.5 psi)	62.5 bar (906 psi)	150 bar (2176 psi)	▶◆	3CD
0 ... 40 bar (0 ... 580 psi)	-1 bar (-14.5 psi)	100 bar (1450 psi)	240 bar (3481 psi)	▶◆	3CE
0 ... 60 bar (0 ... 870 psi)	-1 bar (-14.5 psi)	150 bar (2175 psi)	360 bar (5221 psi)	▶◆	3CG
0 ... 100 bar (0 ... 1450 psi)	-1 bar (-14.5 psi)	250 bar (3625 psi)	600 bar (8702 psi)	▶◆	3DA
0 ... 160 bar (0 ... 2320 psi)	-1 bar (-14.5 psi)	400 bar (5801 psi)	960 bar (13924 psi)	▶◆	3DB
0 ... 250 bar (0 ... 3625 psi)	-1 bar (-14.5 psi)	625 bar (9064 psi)	1500 bar (21756 psi)	▶◆	3DD
0 ... 400 bar (0 ... 5801 psi)	-1 bar (-14.5 psi)	1000 bar (14503 psi)	2400 bar (34809 psi)	▶◆	3DE
0 ... 600 bar (0 ... 8702 psi)	-1 bar (-14.5 psi)	1500 bar (21755 psi)	2500 bar (36260 psi)	▶◆	3DG

Other version, add Order code and plain text:

Measuring range: ... up to ... bar (psi)

9AA H1Y

**Measuring ranges for gauge pressure (only for US market)**

(0 ... 30 psi)	(-14.5 psi)	(75 psi)	(360 psi)	▶◆	4BE
(0 ... 60 psi)	(-14.5 psi)	(150 psi)	(580 psi)	▶◆	4BF
(0 ... 100 psi)	(-14.5 psi)	(250 psi)	(580 psi)	▶◆	4BG
(0 ... 150 psi)	(-14.5 psi)	(375 psi)	(870 psi)	▶◆	4CA
(0 ... 200 psi)	(-14.5 psi)	(500 psi)	(1390 psi)	▶◆	4CB
(0 ... 300 psi)	(-14.5 psi)	(750 psi)	(2170 psi)	▶◆	4CD
(0 ... 500 psi)	(-14.5 psi)	(1250 psi)	(3480 psi)	▶◆	4CE
(0 ... 750 psi)	(-14.5 psi)	(1875 psi)	(5220 psi)	▶◆	4CF
(0 ... 1000 psi)	(-14.5 psi)	(2500 psi)	(5220 psi)	▶◆	4CG
(0 ... 1500 psi)	(-14.5 psi)	(3750 psi)	(8700 psi)	▶◆	4DA
(0 ... 2000 psi)	(-14.5 psi)	(5000 psi)	(13920 psi)	▶◆	4DB
(0 ... 3000 psi)	(-14.5 psi)	(7500 psi)	(21750 psi)	▶◆	4DD
(0 ... 5000 psi)	(-14.5 psi)	(12500 psi)	(34800 psi)	▶◆	4DE
(0 ... 6000 psi)	(-14.5 psi)	(15000 psi)	(34800 psi)	▶◆	4DF
(0 ... 8700 psi)	(-14.5 psi)	(21000 psi)	(52200 psi)	▶◆	4DG

Other version, add Order code and plain text: Measuring range: ... up to ... psi

9AA H1Y

**Output signal**

4 ... 20 mA; two-wire system; power supply 7 ... 33 V DC (10 ... 30 V DC for ATEX versions)	▶◆	0
0 ... 10 V; three-wire system; power supply 12 ... 33 V DC	▶◆	10

**Explosion protection (only 4 ... 20 mA)**

None	▶◆	0
With explosion protection Ex ia IIC T4	▶◆	1

**Electrical connection**

Connector per DIN EN 175301-803-A, stuffing box thread M16 (with coupling)	▶◆	1
Round connector M12 per IEC 61076-2-101 (not for gauge pressure ranges ≤ 16 bar)	▶◆	2
Connection via fixed mounted cable, 2 m (not for type of protection "Intrinsic safety i")	▶◆	3
Quickon cable quick screw connection PG9 (not for type of protection "Intrinsic safety i")	▶◆	4
Connector per DIN EN 175301-803-A, stuffing box thread 1/2"-14 NPT (with coupling)	▶◆	5
Connector per DIN EN 175301-803-A, stuffing box thread PG11 (with coupling)	▶◆	6
Fixed mounted cable, length 5 m	▶◆	7
Special version	▶◆	9

▶ Available ex stock

◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.

0  
10  
0  
1  
1  
2  
3  
4  
5  
6  
7  
9  
N1Y

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Selection and ordering data	Article No.	Order code
<p><b>SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version</b></p> <p>Accuracy typ. 0.25 %</p> <p>Wetted parts materials: stainless steel</p> <p>Non-wetted parts materials: stainless steel</p>	<p>7MF1567-</p>	<p>A</p>
<p><b>Process connection</b></p> <p>G½" male per EN 837-1 (½" BSP male) (standard for metric pressure ranges mbar, bar) ▶◆</p> <p>G½" male thread and G1/8" female thread</p> <p>G¼" male per EN 837-1 (¼" BSP male)</p> <p>7/16"-20 UNF male</p> <p>¼"-18 NPT male (standard for pressure ranges inH<sub>2</sub>O and psi)</p> <p>¼"-18 NPT female (Only for measuring ranges ≤ 60 bar (870 psi))</p> <p>½"-14 NPT male</p> <p>½"-14 NPT female (Only for measuring ranges ≤ 60 bar (870 psi))</p> <p>7/16"-20 UNF female</p> <p>M20x1.5 male</p> <p>Special version</p>		<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p> <p>H</p> <p>J</p> <p>P</p> <p>Z</p> <p>P1Y</p>
<p><b>Version</b></p> <p>Standard version ▶◆</p>		<p>1</p>
<p><b>Further designs</b></p> <p>Supplement the Article No. with "-Z" and add Order code.</p> <p>Manufacturer's test certificate M per IEC 60770-2 (calibration certificate) supplied</p> <p>Oxygen application, oil and grease-free cleaning (Not in conjunction with explosion protection version)</p> <p>▶ Available ex stock</p> <p>◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.</p>	<p>C11</p> <p>E10</p>	