

Pressure Transmitter

clamp connections

ST ME

08.SME

- 4 - Exposed diaphragm.
- 4 - Clamp connection as per ISO 2852.
- 4 - Oil and silicone free.
- 4 - EMC immunity: as per EN 61000.
- 4 - Wiring: shieldless cable.
- 4 - Case: with ventilation device, IP 65.
- 4 - Calibration: adjustable.



Functional characteristics

Ranges: 0...0,4/0...40 bar, relative;
 -1...0/-1...+15 bar, relative;
 0...1/0...16 bar, absolute.
 Accuracy (% F.S.V.): - 0,25 typical; - 0,5 max.
 Calibration: limit-point, as per DIN 16086.
 Repeatability: - 0,15 % F.S.V.
 Thermal drift: - 0,02 % F.S.V. / °C.
 (- 0,05 % F.S.V. / °C. for pressure ranges < 1 bar).
 Annual drift: - 0,2 % F.S.V.
 Process fluid temperature: -25...+100 °C.
 Ambient temperature: -25...+85 °C.
 Storage temperature: -25...+100 °C.

Constructive characteristics


Process connection: AISI 316 st.st.
 Sensor: ceramic cell.
 Gasket: VITON.
 Case: AISI 304 st.st., vented IP 65 for pressure ranges - 16 bar.
 Electric connection: junction box as per DIN 43650 with exit for cables ø 6...9; or cable with option code U68.
 Protection: IP 65 as per IEC 529;
 IP 68 as per IEC 529 with cable exit, option code U68.

Electrical characteristics

Output signals: 4...20 mA, 0...5 Vdc, 0...10 Vdc.
 Supply and max load: see on page 2.
 Response time (10...90%): <1 ms.
 Zero calibration: ± 10 % F.S.V. typical.
 Range calibration: ± 10 % F.S.V. typical.
 Compensated temperature range: -25...+85 °C.

Ranges bar, relative (1)	Overpressure bar, relative	Burst pressure bar, relative
0...0,4/0...0,6	2	3
0...1/0...2,5	5	7
0...4	10	12
0...6/0...10	20	25
0...16	40	50
0...25/0...40	100	120

(1) Unit of measurement: as requested by customer.

 Compliance to requirements of
 EMC directives : 89/336/EEC - 93/68/EEC.

EMISSION standards references

EN 50081-1 (1992) "Generic emission standard"
 EN 55022 (1993) "Emission, class B"

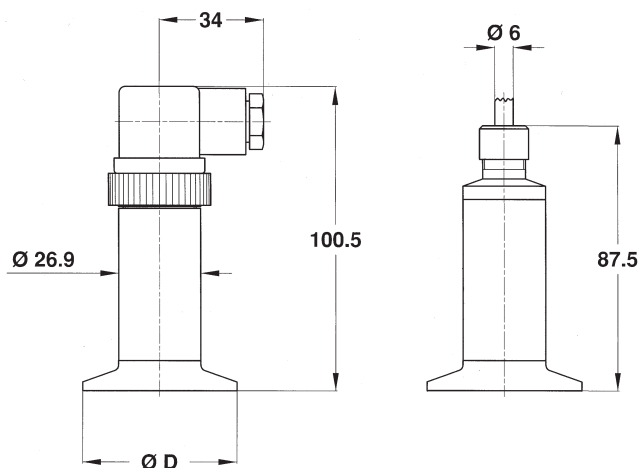
IMMUNITY standards references

EN 61000-6-2 (1999) "Industrial env. immunity standard"
 EN 61000-4-2 (1995) "Electrostatic discharge"
 EN 61000-4-3 (1995) "Radiated radio-frequency, electromagnetic fields"
 EN 61000-4-4 (1995) "Electrical fast transient/burst"
 EN 61000-4-5 (1995) "Surge"
 EN 61000-4-6 (1996) "Conducted radio-frequency fields"

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DIMENSIONS (mm.)

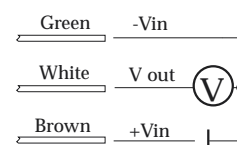
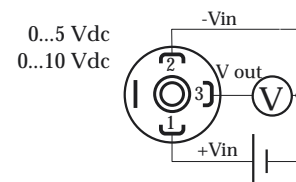
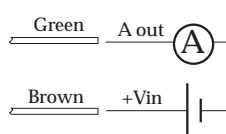
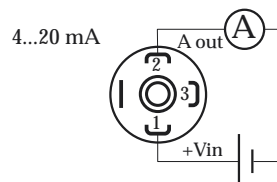


DN	Code	ø D
1" 1/2	AY0	50,5
2"	BY0	64
2" 1/2	DY0	77,5

output	H
STD	105
U68	90

WIRING

Output signals	4...20 mA	0...5 VDC	0...10 VDC
N. of wires	2	3	3
Load (Ohm)	$R_L - (V_{in}-10)/0,02$	5 K Ω min.	10 K Ω min.
Supply: +Vin	10...30	8...28	14...28
Ground	(pls. refer to Installation Manual)		



OPTIONS

	CODE
Calibration certificate	C01
Electrical connection IP 68 with cable exit (1) (2)	U68

- (1) Cable: compensated, poliurethane (option code 08.CPI).
(2) Without zero adjustment.

HOW TO ORDER

	DESCRIPTION & CODE
08	08 - electronic instruments
SME	SME - pressure transmitter ST ME, with clamp connection and ceramic sensor
000	
C	A : -1...0/-1...+15 bar, relative C : 0...0,4/0...40 bar, relative F : 0...1/0...16 bar, absolute
0/10 bar	See ranges table
AY0	See dimensions table
10E	10E - 4...20 mA; +Vin:10...30 Vdc 40F - 0...5 Vdc; +Vin: 8...28 Vdc 50D - 0...10 Vdc; +Vin:14...28 Vdc
C01	See options table

ACCESSORIES

Digital indicator: The display range is from -1.999 to +1.999, and 2 built-in alarms relay control the local process. Provide also supply to the transmitter. For further details refer to data-sheet 211 and 220.



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