Pressure Transmitter
Type: 08.S18

4 - *EMC immunity: as per EN 61000.*
- *Wiring: shieldless cable.*

4 - *Case: with ventilation device, IP 65.*
- *Compensated temperature range: -25...+85°C.*

4 - *Calibration: adjustable.*
- *Oil and silicone free.*

4

4

4

Functional characteristics

Ranges: 0...0,4 / 0...600 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
0...60/0...100	200	250
0...160/0...250	500	600
0...400	600	800
0...600	800	1000

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

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

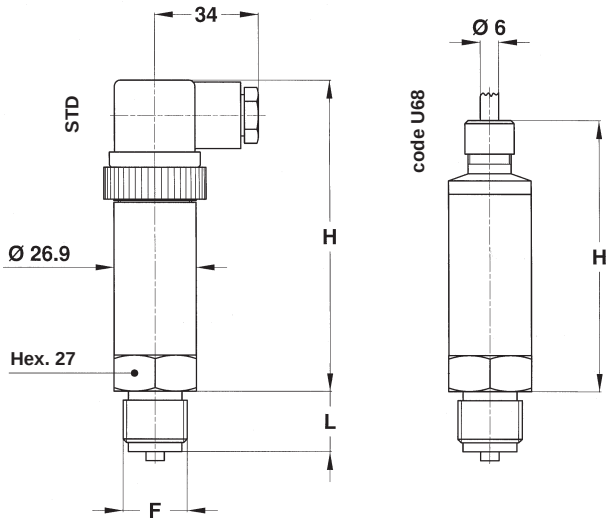
EMISSION standards references

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"

DIMENSIONS (mm.)



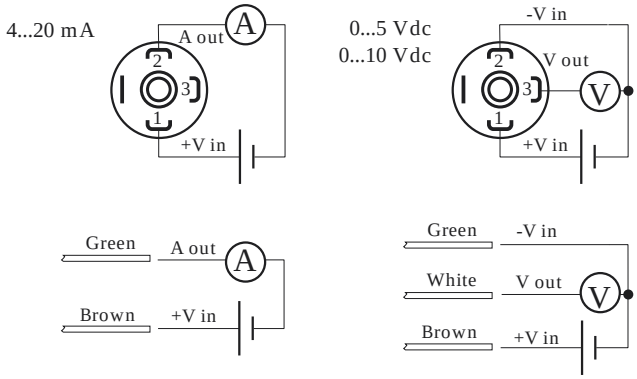
Weight : kg. 0,23

F	Code	L
1/2" BSP	41M	20
1/2" NPT	43M	20
1/4" BSP	21M	13
1/4" NPT	23M	13

output	H
STD	103
U68	90

WIRING

Output signal	4...20 mA	0...5 Vdc	0...10 Vdc
N. of wires	2	3	3
Load (Ohm)	R_L - (Vin-10) / 0,02	5 Ký min.	10 Ký min.
Supply: +Vin	10...30	8...28	14...28
Ground	(pls. refer to Installation Manual)		



OPTIONS

	CODE
Calibration certificate	C01
Accuracy - 0,25 % of F.S.V. max, (1)	K02
Electrical connection IP 68 with cable exit (2) (3)	U68

(1) Limit-point calibration, calibration certificate included.
(2) Cable: compensated, poliurethane (option code 08.CPI).
(3) Without zero adjustement.

HOW TO ORDER

	DESCRIPTION & CODE
08	08 - electronic instruments
S18	S18 - pressure transmitter with ceramic sensor, adjustable calibration ST 18
000	
C	A : -1...0 / -1...+15 bar, relative C : 0...0,4 / 0...600 bar relative F : 0...1 / 0...16 bar, absolute
0/10 bar	See ranges table
21M	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: see datasheet 211 and 220 for 4-digit and 5-digit panel indicator, optional with electr. contact (relay) etc.

Diaphragm seals: a complete range of diaphragm seals are available with a choice of materials of construction . Specifically for corrosive and difficult process fluids plus hygienic applications. For further details refer to data-sheets serie 04.

Valves: for construction details and for use limits refer to our data-sheet.

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