

Pressure Transmitter ST SA, for food industry and sanitary applications

Typ: 08.SSA

- 4 - Threaded and clamp connection as per: DIN 11581, SMS, and ISO 2852.
- 4 - Wetted parts: AISI 316 st.st.
- 4 - Process fluid temperature: up to +150°C.
- 4 - Case: with ventilation device IP 65.
- 4 - Immunity EMC: as per EN 61000.
- 4 - Wiring: shieldless cable.
- 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: - 0,5 % of F.S.V.
Calibration: limit-point, as per DIN 16086.
Repeatability: - 0,15 % F.S.V.
Annual drift: - 0,2 % F.S.V.
Process fluid temperature: -10...+100 °C
(-10...150 °C with heat dissipator code TA3).
Ambient temperature: -10...+85 °C.
Storage temperature: -10...+100 °C.

Constructive characteristics

Process connection: AISI 316 st.st.
Diaphragm: AISI 316L st.st., T.I.G. welded.
Filling oil: food oil.
Sensor: ceramic cell.
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 \varnothing 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.
Zero calibration: \pm 10 % F.S.V. typical.
Range calibration: \pm 10 % F.S.V. typical.
Compensated temperature range: -10...+85 °C.

Ranges bar, relative (1)	Overpressure bar, relative	Thermal drift % F.S.V. / °C (2)
0...0,4/0...0,6 (3)	2	0,06/0,05
0...1/0...2,5	5	0,04/0,03
0...4	10	0,02
0...6/0...10	20	0,02
0...16	40	0,02
0...25/0...40	100	0,02

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

(2) Thermal drift on connection DIN 11851 DN40F.

(3) For process connection • DN 40 only.

 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

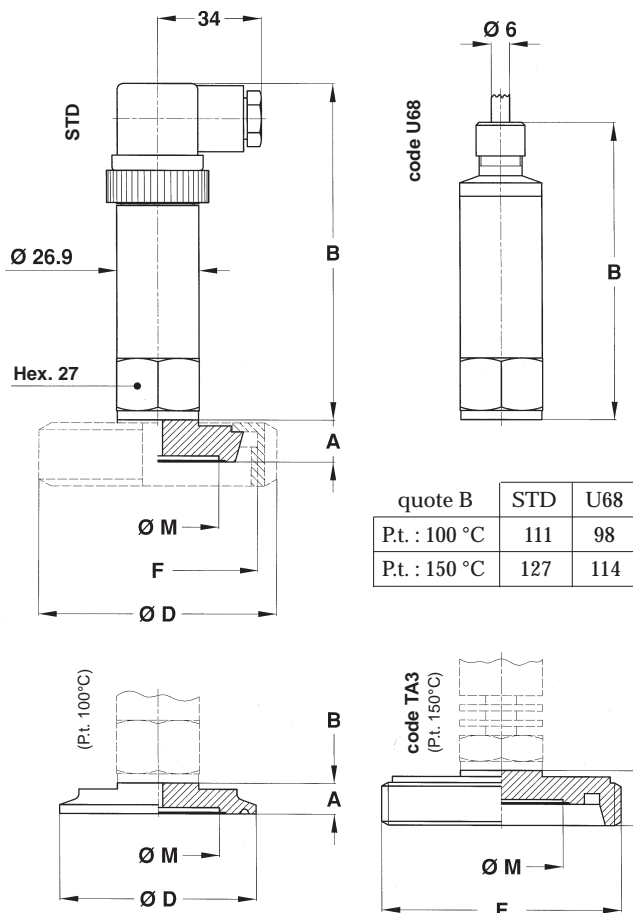
EN 61000-6-2 (1999) "Industrial env. immunity standard"
EN 61000-4-2 (1995) "Electrostatic discharge"
EN 61000-4-3 (1995) "Radiated radio-frequency, electromagnetic fields"
EN 61000-4-4 (1995) "Electrical fast transient/burst"
EN 61000-4-5 (1995) "Surge"
EN 61000-4-6 (1996) "Conducted radio-frequency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



pressure transmitter ST SA,
for food industry and sanitary applications

Typ: 08.SSA

DIMENSIONS (mm.)



quote B	STD	U68
P.t. : 100 °C	111	98
P.t. : 150 °C	127	114

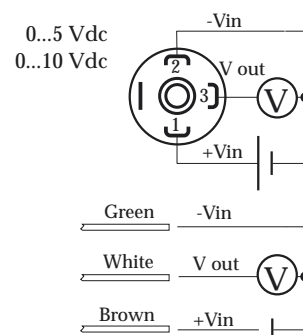
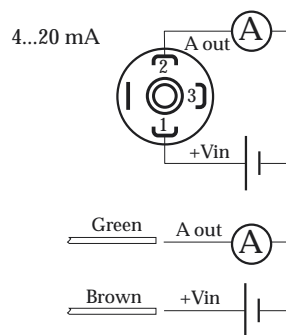
Standards	DN	Code	A	øD	øM	F
DIN 11851 F (1)	25	QHF	16	63	20,5	Rd 52 x 1/6
DIN 11851 F (1)	40	SHF	16	78	40	Rd 65 x 1/6
DIN 11851 F (1)	50	THF	17	92	50	Rd 78 x 1/6
SMS F (1)	1" 1/2	AIF	8,5	74	30	Rd 60 x 1/6
SMS F (1)	2"	BIF	8,5	84	40	Rd 70 x 1/6
DIN 11851 M	25	QHM	18	---	20,5	Rd 52 x 1/6
DIN 11851 M	40	SHM	18	---	30	Rd 65 x 1/6
DIN 11851 M	50	THM	18	---	40	Rd 78 x 1/6
SMS M	1" 1/2	AIM	19	---	30	Rd 60 x 1/6
SMS M	2"	BIM	19	---	40	Rd 70 x 1/6
ISO 2852 (clamp) (2)	1" 1/2	AY0	10	50,5	30	-
ISO 2852 (clamp) (2)	2"	BY0	10	64	40	-
ISO 2852 (clamp) (2)	2" 1/2	DY0	10	77,5	77,5	-

(1) Execution without roller available on request; pls. contact our Technical Department.

(2) Execution with clamp, gasket and connection to be welded available on request; pls. contact our Technical Department.

WIRING

Output signals	4...20 mA	0...5 Vdc	0...10 Vdc
N. 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)		



HOW TO ORDER

	DESCRIPTION & CODE
08	08 - electronic instruments
SSA	SSA - pressure transmitter ST SA, with ceramic sensor, for food industry and sanitary applications
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
SHF	See dimension 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
TA3	Options C01 - Calibration certificate U68 - electrical connection with cable, IP 68 (1) (2) TA3 - process fluid temperature up to +150°C

(1) Cable: poliurethane, compensated (code 08.CPI).

(2) Without zero adjustment.

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 08.P6A.



DRUCK & TEMPERATUR Leitenberger GmbH
Postfach 64 • D-72136 Kirchentellinsfurt • Germany
Tel.: 0 71 21 - 9 09 20 - 0 • Fax: 0 71 21 - 9 09 20 - 99
E-Mail: dt-info@leitenberger.de
INTERNET-Site: <http://www.leitenberger.de>