

pressure transmitter for food industry and sanitary applications

ST SA

- ✓ - Threaded and clamp connection as per:
DIN 11581, SMS, and ISO 2852.
- ✓ - Wetted parts: AISI 316L st.st.
- ✓ - Process fluid temperature: up to 300°F (+150°C).
- ✓ - EMC emission and immunity: as per EN 61326.
- ✓ - Wiring: shieldless cable.
- ✓ - Calibration: adjustable.



74-03

Authorization NO. 597



Compliance to requirements of directives:
EMC 89/336/EEC - PED 97/23/EC.

8.SSA - Standard Model

Ranges: 0...10/0...600 *psi*, relative (0...0,6/0...40 bar, relative);
-30"...0/-30"...350 *psi*, relative (-1...0/-1...+24 bar, relative);
0...10/0...200 *psi*, absolute (0...0,6/0...16 bar, absolute)

Accuracy (% span): 0,25 typical; ≤ 0,5 max.

Calibration: limit-point as per DIN 16086.

Repeatability: ≤ 0,15 % of span.

Annual drift: ≤ 0,2 % of span.

Process fluid temperature: 14...+212 °F (-10...+100 °C).

Ambient temperature: 14...+185 °F (-10...+85 °C).

Storage temperature: 14...+185 °F (-10...+85 °C)

Output signals: 4...20 mA (cod. 1), 0...5 Vdc (cod. 4),
0...10 Vdc (cod. 5).

Supply and max load: see on page 2.

Zero calibration: ± 10 % span typical.

Span calibration: ± 10 % span typical.

Compensated temperature range: +32...+176 °F (0...+80 °C).

Process connection: AISI 316L st.st.

Diaphragm: AISI 316L st.st., T.I.G. welded.

Filling fluid: food oil.

Sensor: piezoresistive for ranges ≤ 23 *psi* (1,6 bar);
ceramic for ranges > 23 *psi* (1,6 bar).

Case: stainless steel, vented for pressure ranges ≤ 230 *psi*
(≤ 16 bar).

Electric connection: *EN 175301-803, exit for cables ø 0.23...0.35"
(6...9 mm).

Protection degree: IP 65 as per IEC 529 / EN 60529.

(*Ex DIN 43650

8.SSA.TA3 - Model with heat dissipator

Process fluid temperature: 14...+302 °F (-10...+150 °C).

Other features: as Standard Model.

Ranges psi, relative (1)	Overpressure psi, relative	Thermal drift % span / °F (2)
0...10	36	0.03
0...15	45	0.03
0...25	72	0.02
0...30	72	0.02
0...60	145	0.01
0...100/0...160	290	0.01
0...200	580	0.01
0...300	580	0.01
0...600	1450	0.01

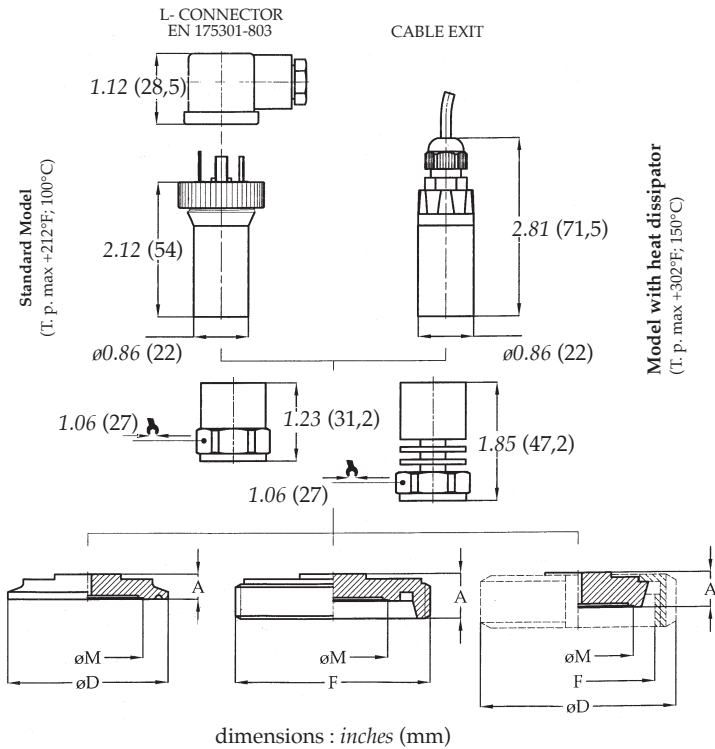
(1) Other unit of measurement, intermediate ranges, vacuum and compound ranges are available, as requested by customer.

(2) Thermal drift on connection DIN 11851 DN40F.

Ranges bar, relative (1)	Overpressure psi, relative	Thermal drift % span / °C (2)
0...0,6	2,5	0,05
0...1	3	0,05
0...1,6	5	0,04
0...2,5	5	0,04
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) Other unit of measurement, intermediate ranges, vacuum and compound ranges are available, as requested by customer.

(2) Thermal drift on connection DIN 11851 DN40F.

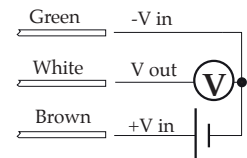
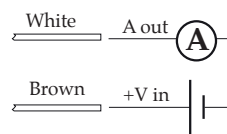
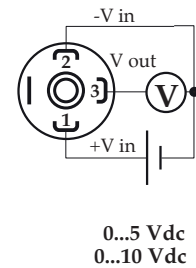
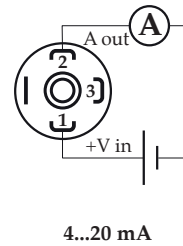


Standards	DN	A	ϕD	ϕM	F
QHF DIN 11851 F (1)	25	0.62 (16)	2.48 (63)	0.95 (23,5)	Rd 52 x 1/6
SHF DIN 11851 F (1)	40	0.62 (16)	3.07 (78)	1.73 (44)	Rd 65 x 1/6
THF DIN 11851 F (1)	50	0.66 (17)	3.62 (92)	2.24 (57)	Rd 78 x 1/6
BIM SMS M	2"	0.74 (19)		1.73 (44)	Rd 70 x 1/6
AT0 ISO 2852 (clamp) (2)	1" 1/2	0.39 (10)	1.98 (50,5)	1.33 (34)	
BT0 ISO 2852 (clamp) (2)	2"	0.39 (10)	2.51 (64)	1.73 (44)	
DT0 ISO 2852 (clamp) (2)	2" 1/2	0.39 (10)	3.05 (77,5)	2.24 (57)	

dimensions : inches (mm)

- (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.

Output signal	4...20 mA 1	0...5 Vdc 4	0...10 Vdc 5
N. of wires	2	3	3
Load (Ohm)	$R_L \leq (V_{in}-8)/0,02$	$R_L \geq 5 K\Omega$	$R_L \geq 10 K\Omega$
Supply: +Vin	8...30	8...30	14...30
Ground	(pls. refer to Installation Manual)		



OPTIONS

Model	Standard	With heat dissipator
C01 - Calibration certificate	◆	◆
PVC - Cable exit, with PVC cable (1)	◆	◆

(1) Zero calibration not available

"HOW TO ORDER" SEQUENCE

Section / Model / Special Version / Range / Process connection / Output signal / Options

8 SSA --- QHF...THF 1 C01
TA3 BIM 4 PVC
AT0...DT0 5