

# pressure transmitter for food industry and sanitary applications

# ST SA

- ✓ - Construction and finishing: as per 74-05 SSI.
- ✓ - Wetted parts: AISI 316L st.st.
- ✓ - EMC emission and immunity: as per EN 61326.
- ✓ - Calibration: adjustable.
- ✓ - Full traceability



74-05  
Authorization NO. 1599



Compliance to requirements of directives:  
EMC 2004/108/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, 0...5 Vdc<sup>(1)</sup>, 0...10 Vdc<sup>(1)</sup>.

**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.

**Seal fill:** oil for food service (FDA).

**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<sup>(2)</sup>, exit for cables ø 0.23...0.35"  
(6...9 mm).

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

(1) Available with ceramic sensor only

(2) 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 <i>psi</i> , relative (1)	Overpressure <i>psi</i> , 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

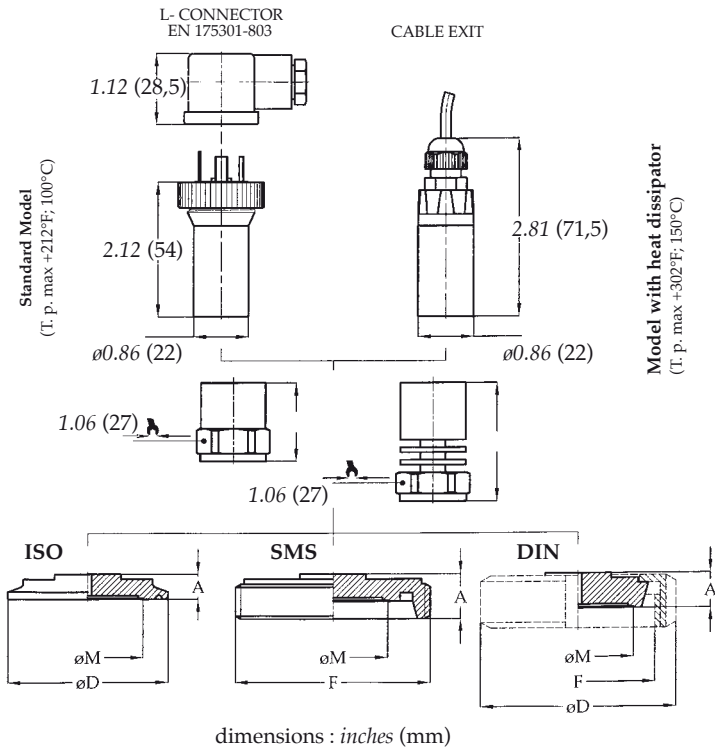
(1) Other unit of measurement, intermediate ranges, vacuum and compound ranges are available, as requested by customer.

(2) Thermal drift on connection DIN 11851 DN40F.

Ranges bar, relative (1)	Overpressure bar, 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.



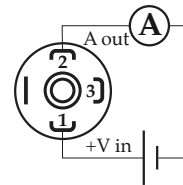
Standards	DN	A	øD	øM	F
<b>QHF</b> DIN 11851 F (1) (3)	25	0.62 (16)	2.48 (63)	0.95 (23,5)	Rd 52 x 1/6
<b>SHF</b> DIN 11851 F (1) (3)	40	0.62 (16)	3.07 (78)	1.73 (44)	Rd 65 x 1/6
<b>THF</b> DIN 11851 F (1) (3)	50	0.66 (17)	3.62 (92)	2.24 (57)	Rd 78 x 1/6
<b>BIM</b> SMS M (4)	2"	0.74 (19)		1.73 (44)	Rd 70 x 1/6
<b>AT0</b> ISO 2852 (clamp) (2)	1" 1/2	0.39 (10)	1.98 (50,5)	1.33 (34)	
<b>BT0</b> ISO 2852 (clamp) (2)	2"	0.39 (10)	2.51 (64)	1.73 (44)	
<b>DT0</b> ISO 2852 (clamp) (2)	2" 1/2	0.39 (10)	3.05 (77,5)	2.24 (57)	

dimensions : inches (mm)

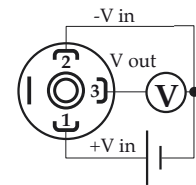
- (1) Execution without roller available on request: pls. contact our Technical Department.
- (2) Execution with clamp, gasket and connection to be welded available on request: pls. contact our Technical Department.
- (3) To be installed with special adapter SKS
- (4) Not available with 3A marking

Pn (bar)	H	Hd
≤ 1,6	1.42" (36,2)	2.05" (52,2)
> 1,6	1.23" (31,2)	1.86" (47,2)

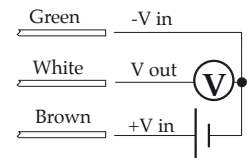
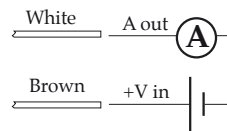
Output signal	4...20 mA 1	0...5 Vdc 4	0...10 Vdc 5
N. of wires	2	3	3
Load (Ohm)	$R_L \leq (V_{in}-8)/0,02$	$R_L \geq 5 \text{ K}\Omega$	$R_L \geq 10 \text{ K}\Omega$
Supply: +Vin	10...30	8...30	14...30
Ground	(pls. refer to Installation Manual)		



4...20 mA



0...5 Vdc  
0...10 Vdc



## OPTIONS

Model	Standard	With heat dissipator
<b>C01</b> - Calibration report	♦	♦
<b>PVC</b> - 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