ST SA

pressure transmitter for food industry and sanitary applications

PED 2014/68/EU
EMC 2014/30/EU

UL, 61010-1
CSA, C22.2 No 61010-1
Certificato No. E114472

74-06
Authorization NO. 1599

8.SSA

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)
Output signals: 4...20 mA, 0...5 Vdc (1), 0...10 Vdc (1).
Non-linearity (BFSL): ≤ ± 0,25 % of the range, according to IEC 61298-2.
Non-repeatability: ≤ 0,1 % of the range, according to IEC 61298-2.
Accuracy: ≤ ± 0,5% of the range (2).
Long term drift: ≤ 0,2 % of span.
Zero and span adjustement: ± 10 % span typical.
Process fluid temperature: *14...+185 °F* (-10...+85 °C); *14...+302 °F* (-10...+150 °C) for high temperature model cod. **8.SSA...TA3**.
Ambient temperature: *14...+185 °F* (-10...+85 °C).
Stocking temperature: *14…+185 °F* (-10...+85 °C)
Response time: <4 ms (measuring); <150 ms (switching on).
Emission and immunity: according to EN 61326, (group 1 - class B; industrial applications).
Vibration resistance: 20g (10...2000 Hz, according to IEC 60068-2-6).
Shock resistance: 40g (6 ms, according to IEC 60068-2-27).
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).
Protection degree: IP 65 as per EN 60529/IEC 529 (3).
Process connection and diaphragm: AISI 316L st.st., with finishing Ra ≤0,8 µm (welded parts included).
Seal fill: oil for food service (FDA).

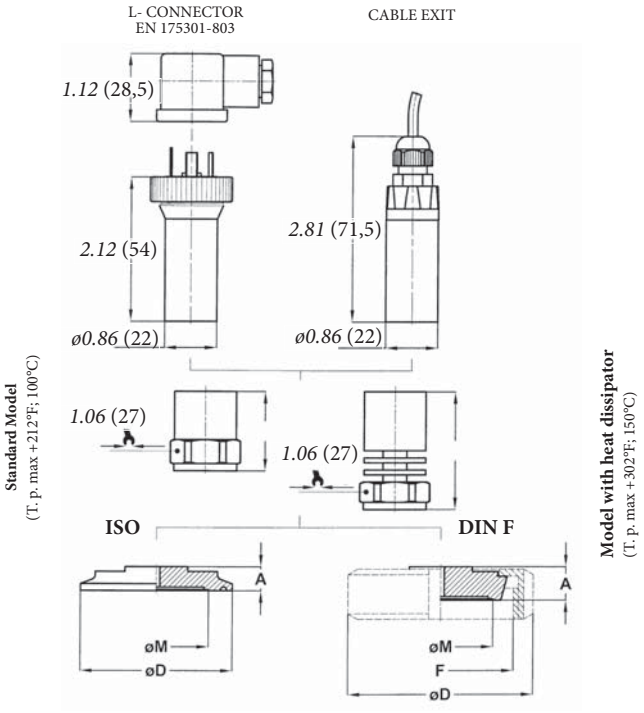
(1) Available with ceramic sensor only
(2) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1).
(3) provided with properly assembled electric connection

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 units of measure, intermediate ranges, vacuum and compound ranges are available on demand.
(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 units of measure, intermediate ranges, vacuum and compound ranges are available on demand.
(2) Thermal drift on connection DIN 11851 DN40F.



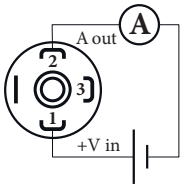
dimensions : *inches* (mm)

Standards	DN	A	øD	øM	F
QHF DIN 11851 F (1) (3)	25	*0.62* (16)	*2.48* (63)	*0.95* (23,5)	Rd 52 x 1/6
SHF DIN 11851 F (1) (3)	40	*0.62* (16)	*3.07* (78)	*1.73* (44)	Rd 65 x 1/6
THF DIN 11851 F (1) (3)	50	*0.66* (17)	*3.62* (92)	*2.24* (57)	Rd 78 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)	

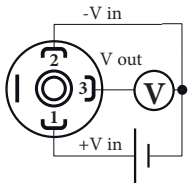
dimensions : *inches* (mm)

(1) Execution without roller available on request:
pls. contact our Technical Department.
(2) Execution with clamp, gasket and to be-welded connection
available on request: pls. contact our Technical Department.
(3) Gasket System from Siersema Komponenten System (S.K.S.) B.V. or
Kieslemann ASEPTO-STAR k-flex gasket.

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

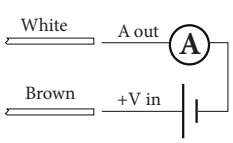


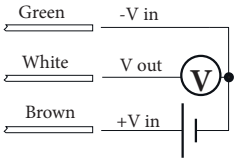
4...20 mA



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

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





OPTIONS

Model	Standard	With heat dissipator
C01 - Calibration report	◆	◆
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**	

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