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).

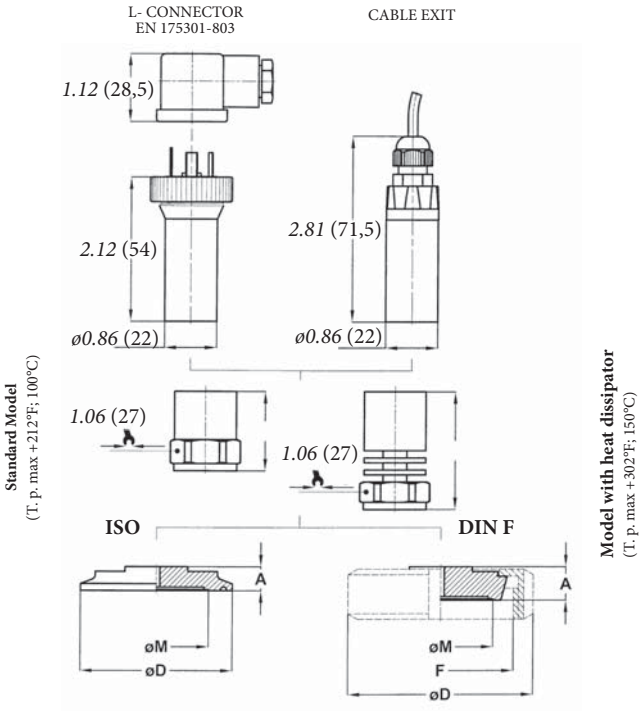
(1) Available with ceramic sensor only
(2) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1).
(3) with properly assembled electric connection

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 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.



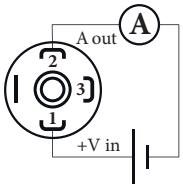
dimensions : *inches* (mm)

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)	

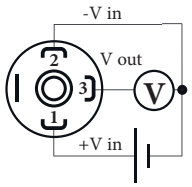
dimensions : *inches* (mm)

(1) Execution without roller available on request:
pls. contact our Technical Department.
(2) Execution with clamp, gasket and connection
to be welded 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)

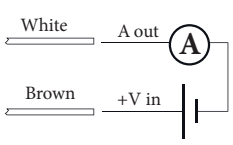


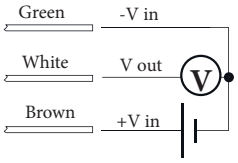
4...20 mA



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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