

flush diaphragm pressure transmitter, intrinsically safe ATEX version

SX MA

- ✓ - Zones : mining, 0, 1, 2, 20, 21, 22
- ✓ - Wetted parts: st.st.AISI 316L.
- ✓ - EMC emission and immunity: as per EN 61326.
- ✓ - Case: with ventilation device.
- ✓ - Calibration: adjustable.



II 1 GD Ex ia IIC Ex iaD 20
II 1/2 GD Ex ia IIC Ex iaD 20



Certificato :
CESI 06 ATEX 003 X

8.XMA - Standard Model

Instrument classification:

- category 1 (1), atmosphere type GD, ignition protection Ex ia IIC as per EN 60079-0, EN 60079-11, EN 60079-26 and Ex ia D 20 as per EN 61241-0, EN 61241-11: **II 1 GD Ex ia IIC Ex iaD 20 (cod. 1GD)**;

- category 1/2, atmosphere type GD, ignition protection Ex ia IIC as per EN 60079-0, EN 60079-11, EN 60079-26 and Ex ia D 20 as per EN 61241-0, EN 61241-11: **II 1/2 GD Ex ia IIC Ex iaD 20 (cod. 2GD)**.

Temperature classes (2),

-T6 (T85°C)Ta ≤ 60 °C (cod. **T6B**);

-T5 (T100°C)Ta ≤ 80 °C (cod. **T5B**);

-T4 (T135°C)Ta ≤ 100 °C (cod. **T4B**).

Ranges: 0...15 / 0...10000 psi, relative (0...1/0...600 bar, relative).

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.

Storage temperature: -13...+212 °F (-25...+100 °C)

Output signal: 4...20 mA.

Zero and span calibration: ± 10 % span typical.

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

Diaphragm and process connection: AISI 316L st.st.

Gasket: VITON (Cod. **FPM**).

Filling liquid: silicon oil.

Sensor: ceramic.

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

Electric connections: junction boxes and cable exit are available, see on page 2.

Protection: IP 65 and IP 68 (1) as per EN 60529 (relative to electrical connection type).

Weight: 0.61 lbs (0,28 kg).

(1) available with IP 68 metallic cable gland only;

(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature; "Tp" & "Ta" ≥ -20 °C.

Ranges psi, relative (1)	Thermal drift % span / °F (3)	Overpressure psi, relative
0...15 (2)	0.04	36
0...25/0...30 (2)	0.03	72
0...60 (2)	0.02	145
0...100 (2)	0.02	290
0...160	0.02	290
0...300	0.01	580
0...600	0.01	1450
0...1000/0...1500	0.01	2900
0...2000/0...3000	0.01	7250
0...6000	0.01	8700
0...10000	0.01	11600

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

(2) Ranges available with G 3/4 A connection only.

(3) Thermal drift on connection G 3/4 A.

Ranges bar, relative (1)	Thermal drift % span / °C (3)	Overpressure bar, relative
0...1 (2)	0,08	2,5
0...1,6/0...2,5 (2)	0,06	5
0...4 (2)	0,04	10
0...6 (2)	0,03	20
0...10	0,03	20
0...16	0,02	40
0...25/0...40	0,02	100
0...60/0...100	0,02	200
0...160/0...250	0,02	500
0...400	0,02	600
0...600	0,02	800

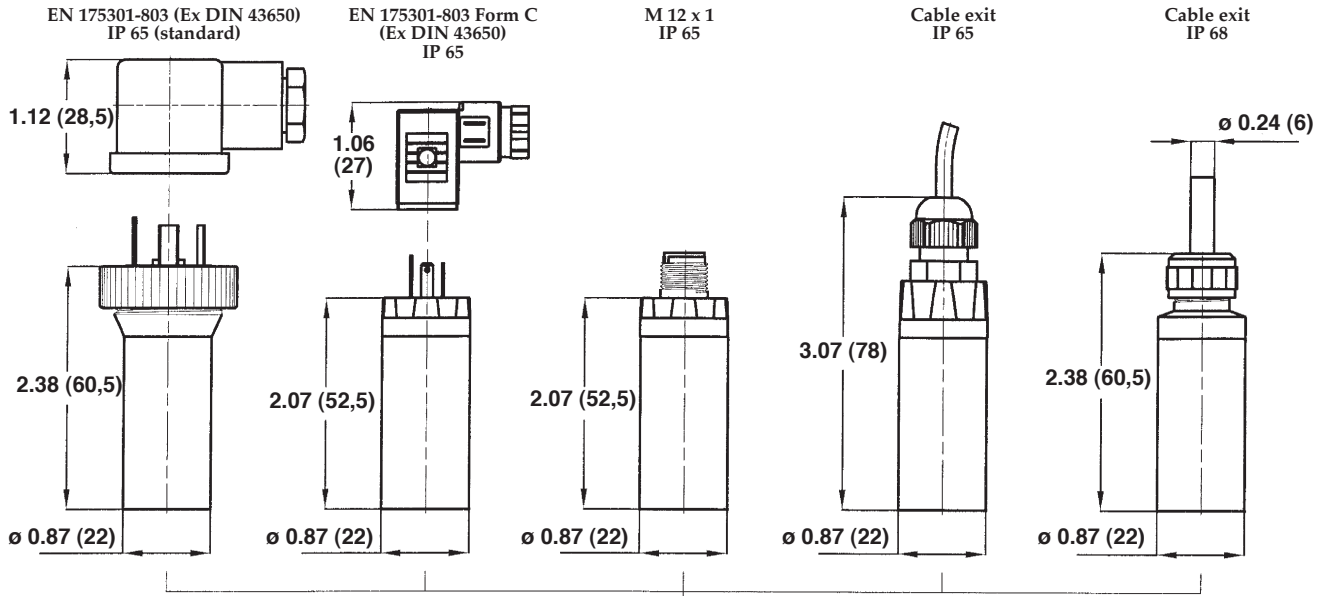
(1) Other unit of measurement and intermediate ranges are available, as requested by customer.

(2) Ranges available with G 3/4 A connection only.

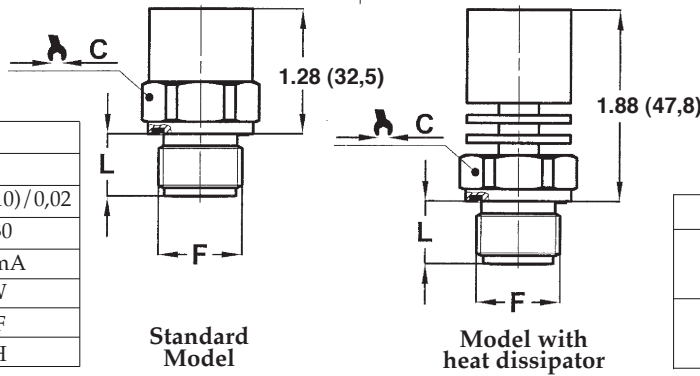
(3) Thermal drift on connection G 3/4 A.

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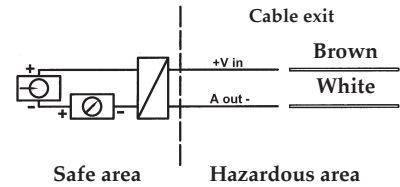
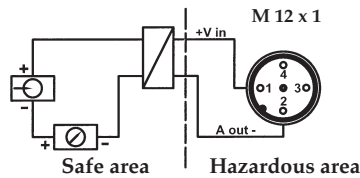
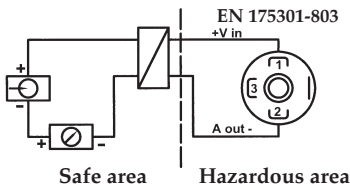


Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (V_{in}-10)/0,02$
Supply: +V _{in}	10...30
Max current (I _i)	≤ 100 mA
Max power (P _i)	1,0 W
Capacitance (C _i)	19 nF
Inductivity (L _i)	0 mH



F	L	C
41M G 1/2 B	0.62 (16)	1.06 (27)
51M G 3/4 B	0.64 (16,5)	1.25 (32)

dimensions : inches (mm)



OPTIONS

Classification	II 1GD	II 1/2GD
--- - Junction box IP 65, as per EN 175301-803 Form A		T6...T4 (2)
SCC - Junction box IP 65, as per EN 175301-803 Form C (1)		T6...T4 (2)
M12 - Junction box IP 65, M12 x 1 (1)		T6...T5
PVC - Cable exit IP 65, with PVC cable (1)		T6...T5
U68 - Cable exit IP 68, with vented polyurethane cable (1)	T6	T6

- (1) Zero calibration not available
(2) silicon gasket when T4 temp. class is choose

"HOW TO ORDER" SEQUENCE

Section / Model / Range / Process connection / Output signal / Classification / Temperature / Gasket / Options
8 XMA **41M** **1** **1GD** **T6B** **FPM** --- ... **U68**
 51M **2GD** **T5B**
 T4B

LOAD RESISTANCE

