

flush diaphragm pressure transmitter, intrinsically safe ATEX version, accuracy 0,5 %



II 1 GD Ex ia IIC Ex ia IIIC
II 1/2 GD Ex ia IIC Ex ia IIIC

Certificato :
0425 ATEX 2635

8.XMA

Ignition protection Ex ia as per EN 60079-0, EN 60079-11, EN 60079-26, atmosphere type GD :

- category 1 ⁽¹⁾, marking II 1 GD Ex ia IIC Ex ia IIIC (cod. **1GD**);
- category 1/2, marking II 1/2 GD Ex ia IIC Ex ia IIIC (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**).

Measuring ranges: 0...1/0...600 bar, relative.

Output signal: 4...20 mA (cod. **1**).

Non-linearity (BFSL): ≤ ± 0,25 % of the range, according to IEC 61298-2.

Non-repeatability: ≤ 0,15 % of the range, according to IEC 61298-2.

Accuracy: ≤ ± 0,5% of the range ⁽³⁾.

Long term drift: ≤ 0,2 % of span.

Zero and span adjustment: ± 10 % span typical.

Stocking temperature: -30...+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: ceramic in Al₂O₃.

Case: in AISI 316L, vented up to 16 bar.

Protection degree: IP 65 according to IEC 60529 ⁽⁴⁾.

Diaphragm and process connection: in AISI 316L.

Weight: 0,28 kg

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.

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

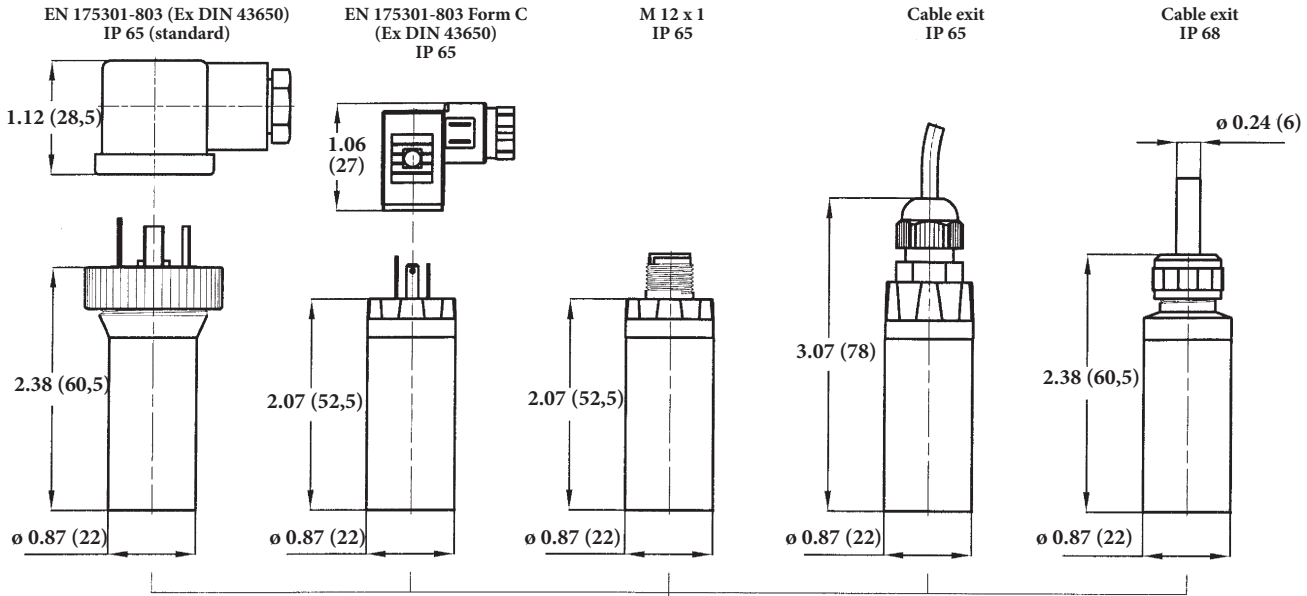
(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature;
"Tp" & "Ta" ≥ -30 °C.

(3) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1); accuracy ≤ ± 0,75% of span for measuring ranges 0...1 bar and 0...600 bar.

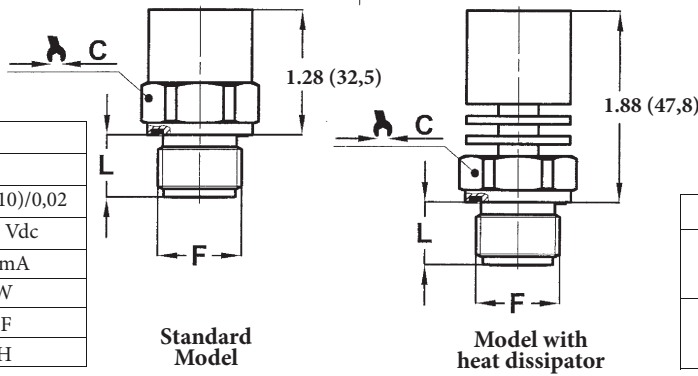
(4) with properly assembled electric connection

flush diaphragm pressure transmitter, intrinsically safe ATEX version, accuracy 0,5 %

SX MA

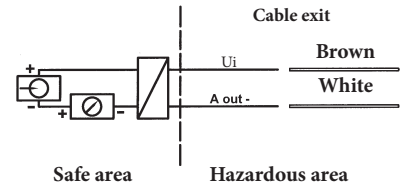
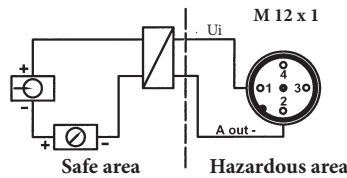
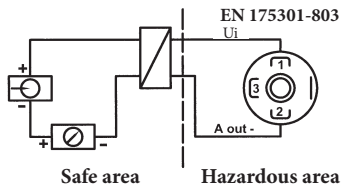


Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10) / 0,02$
Supply (U_i)	10...30 Vdc
Max current (I_i)	≤ 100 mA
Max power (P_i)	1,0 W
Capacitance (C_i)	19 nF
Inductivity (L_i)	0 mH



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

