SX MA

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

II 1G Ex ia IIC T6…T4 Ga
II 1D Ex ia IIIC T_{200}85°C…T_{200}135°C Da
II 1/2G Ex ia IIC T6…T4 Ga/Gb
II 1/2D Ex ia IIIC T_{200}85°C…T_{200}135°C Da/Db

Certificato :
0425 ATEX 2635-01

8.XMA

Protection type: intrinsic safety "ia" as per EN 60079-0, EN 60079-11.
Marking:
- **II 1 G Ex ia IIC T6...T4 Ga**
  II 1 D Ex ia IIIC T_{200}85°C...T_{200}135°C Da (**Cod. G1D**) (1);
- **II 1/2 G Ex ia IIC T6...T4 Ga/Gb**
  II 1/2 D Ex ia IIIC T_{200}85°C...T_{200}135°C Da/Db (**Cod. G2D**).

Measuring ranges: 0...1/0...600 bar, relative.
Output signal: 4...20 mA.
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 (2).
Long term drift: ≤ 0,2 % of span.
Zero and span adjustement: ± 10 % span typical.
Stocking temperature: -20...+80 °C.
Response time: <4 ms (measuring); <150 ms (switching on).
Emission and immunity: according to EN 61326-1,
(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 Al_2O_3.
Case: in AISI 316L, vented up to 16 bar.
Protection degree: IP 65-68 according to IEC 60529 (3).
Diaphragm and process connection: in AISI 316L.
Weight: 0,28 kg

(1) available with IP 68 metallic cable gland 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); accuracy ≤ ± 0,75% of span for measuring ranges 0...1 bar and 0...600 bar.
(3) depending on the electrical connection

Ranges bar, relative (1)	Overpressure bar, relative	Thermal drift % span / °C (3)
0...1 (2)	3	0,10
0...1,6 (2)	5	0,08
0...2,5 (2)	5	0,06
0...4 (2)	8	0,05
0...6 (2)	12	0,04
0...10	20	0,04
0...16	32	0,03
0...25	50	0,02
0...40	80	0,02
0...60	120	0,02
0...100	200	0,02
0...160	320	0,02
0...250	500	0,02
0...400	600	0,02
0...600	600	0,02

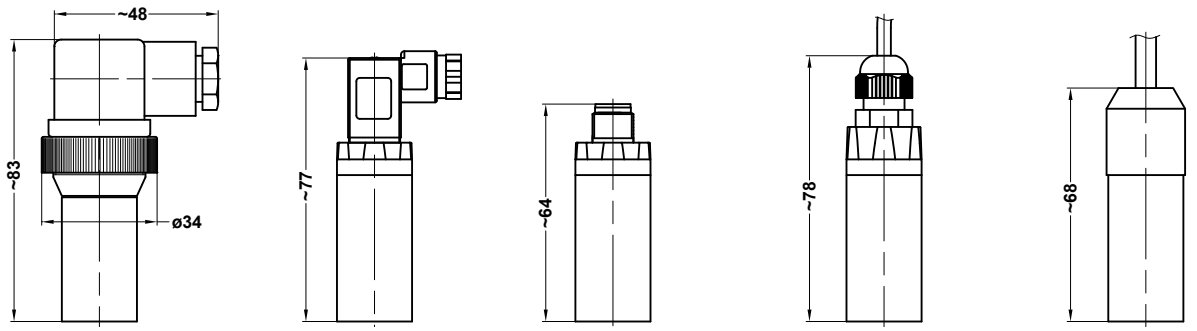
(1) Other unit of measurement and intermediate ranges are available, as requested by customer.
(2) Ranges available with G 3/4 A connection only.
(3) Thermal drift on connection G 3/4 A.

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

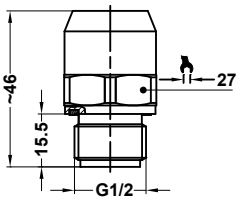
SX MA

RG- 11/23

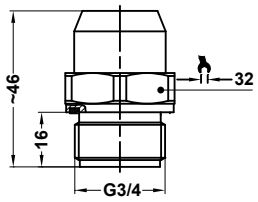
EN 175301-803 (Ex DIN 43650) IP 65 (standard) | **EN 175301-803 Form C (Ex DIN 43650) IP 65** | **M 12 x 1 IP 65** | **Cable exit IP 65** | **Cable exit IP 68**



41M - G 1/2 A



51M - G 3/4 A



WIRING

	DIN 175301-803 A	M12 x 1	Cable exit
Supply connection: U+	1	1	brown
Negative connection: U-	2	3	white
Output signal: S+	-	-	-
Ground	GND	2	grey

OPTIONS

Classification	
--- -	Junction box IP 65, as per EN 175301-803 Form A
SCC -	Junction box IP 65, as per EN 175301-803 Form C (1)
M12 -	Junction box IP 65, M12 x 1 (1)
PVC -	Cable exit IP 65, with PVC cable (1)
U68 -	Cable exit IP 68, with vented polyurethane cable (1)

(1) Zero calibration not available

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (Ui-10)/0,02$
Supply (Ui)	10…30 Vdc
Max current (Ii)	≤ 100 mA
Max power (Pi)	1,0 W
Capacitance (Ci)	19 nF
Inductivity (Li)	0 mH

"HOW TO ORDER" SEQUENCE

Section / Model / Range / Process connection / Output signal / Classification / Temperature / Gasket / Options

8 **XMA** **41M** **51M** **1** **G1D** **G2D** **---** **FPM** **- - - ... U68**

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