

## piezoresistive pressure transmitter flush diaphragm, double sealing, 0,5% accuracy



**CE** Compliance with requirements of directives:  
EMC 2014/30/CE - PED 2014/68/UE - RoHS 2011/65/UE



### 8.SMA/DG

**Ranges:** 0...0,1 / 0...600 bar, relative; -0,4...0/-1...+24 bar, relative;  
0...0,4/0...16 bar, absolute

**Output signals:** 4...20 mA.

**Non-linearity (BFSL):** ≤ 0,25% of span as per IEC 61298-2.

**Non-repeatability:** ≤ 0,1% of span as per IEC 61298-2.

**Accuracy :** ≤ ± 0,5 of span <sup>(1)</sup>.

**Annual drift:** ≤ 0,2 % of span.

**Zero calibration and span calibration:** ± 5 % span typical.

**Process fluid temperature:** -22...+212 °F (-30...+100 °C).

**Ambient temperature:** -13...+185 °F (-20...+85 °C).

**Storage temperature :** -40...+185 °F (-40...+100 °C).

**Response time:** < 10ms (adjustment); < 150ms (power on).

**Emission and immunity standard:** as per IEC61326, (group 1 - B class; industrial application).

**Vibration resisance:** 20g (10...2000 Hz, as per IEC m60068-2-6).

**Shock resisance:** 40g (6ms, as per IEC m60068-2-27).

**Sensor:** piezoresistive.

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

**Protection degree:** IP 65 as per EN 60529 <sup>(2)</sup>.

**Process connection and diaphragm:** AISI 316L st.st.

**Sealing:** double, for a safer tight (see the available sealings at page 2)

**Filling liquid:** silicon oil.

**Weight:** G 1/2: 0,2 kg; G 1: 0,33 kg.

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

(1) Other ranges available on demand.

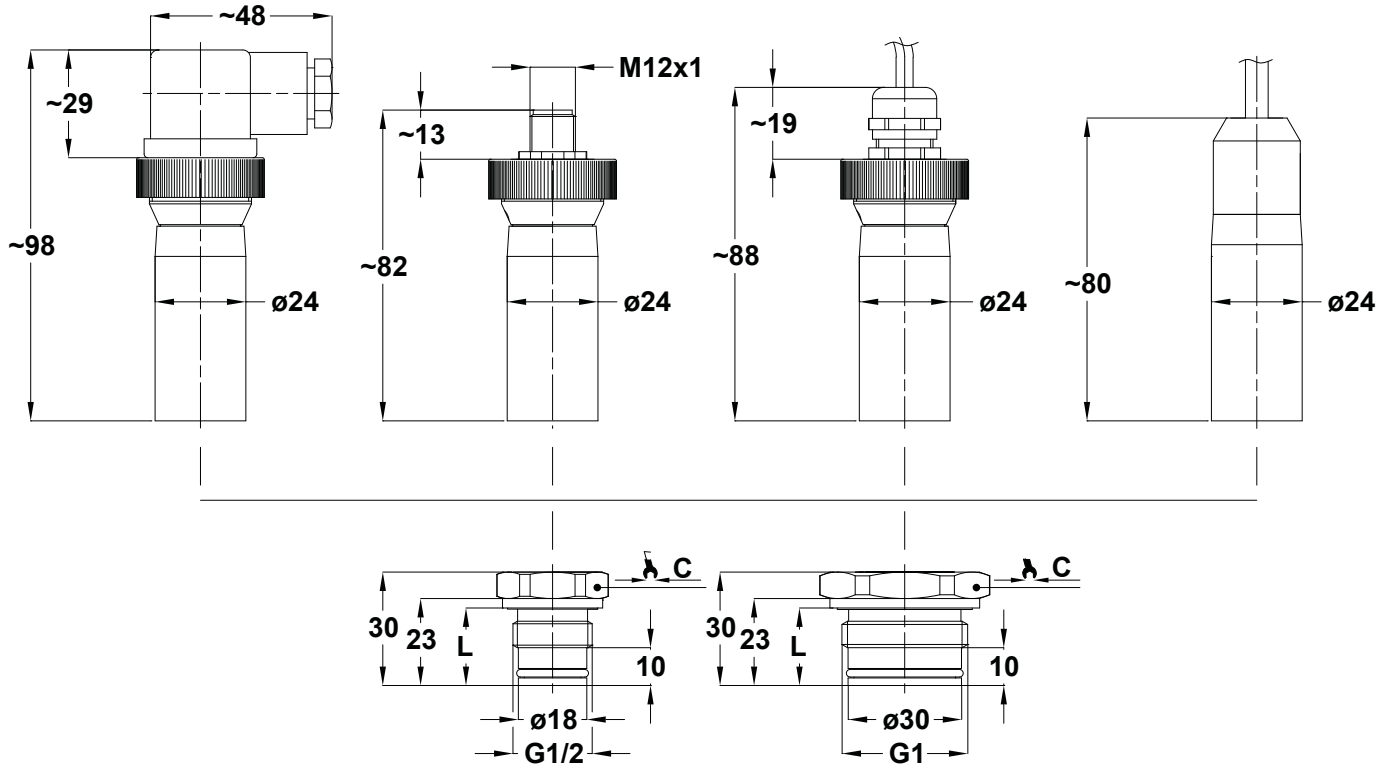
(1) Max error of measurement as per IEC61298-2, non-linearity and hysteresis included (extreme values calibration according to standard IEC 61298-1 when in vertical position)

(2) With properly assembled power connection.

**piezoresistive pressure transmitter**  
**flush diaphragm, double sealing, 0,5% accuracy**

**ST MA/DG**

Rg-09/16



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<b>Output signals</b>	<b>4...20 mA</b> <b>4...20 mA</b>
N. of wires	2
Load max (Ohm)	$R_L \leq (U_b - 8) / 0,02$
Supply: +Ub (Vdc)	10...30
Absorbed current (mA)	< 25

F	L	C
<b>41M</b> G 1/2 A	0.62" (20,5)	1.06" (27)
<b>61M</b> G 1 A	0.64" (20,5)	1.25" (41)

dimensions : inches (mm)

All output signals are provided of protection against short circuit and polarity inversion. Insulation tension 500 Vdc.

**WIRING**

	DIN 175301-803 A	M12 x 1	Cable exit
N. of wires	2	2	2
Supply connector: Ub	1	1	brown
Negative connector: 0V	2	3	white
Signal: S +	-	-	-
Ground	GND	2	grey

**OPTIONS**

<b>FPM</b> -Sealing FPM (-20...+150 °C)	(1)	<b>C01</b> - Calibration report
<b>NBR</b> -Sealing NBR (-30...+100 °C)		<b>PVC</b> - Electrical connection with cable gland with PVC cable
<b>EPD</b> -Sealing EPDM (-30...+150 °C)	(2)	<b>U68</b> - Electrical connection with cable gland with PUR cable (3)

(1) max 300 bar per T.p. > 100°C

(2) max 200 bar

(3) Zero adjustment not available

**“HOW TO ORDER” SEQUENCE**

Section / Model / Special versions / Range / Process connection / Output signal / Gasket / Options

8 SMA --- 41M 1 FPM C01...U68  
 TA3 51M 4  
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