

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 ⁽¹⁾.

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

Shock resistence: 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 ⁽²⁾.

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.

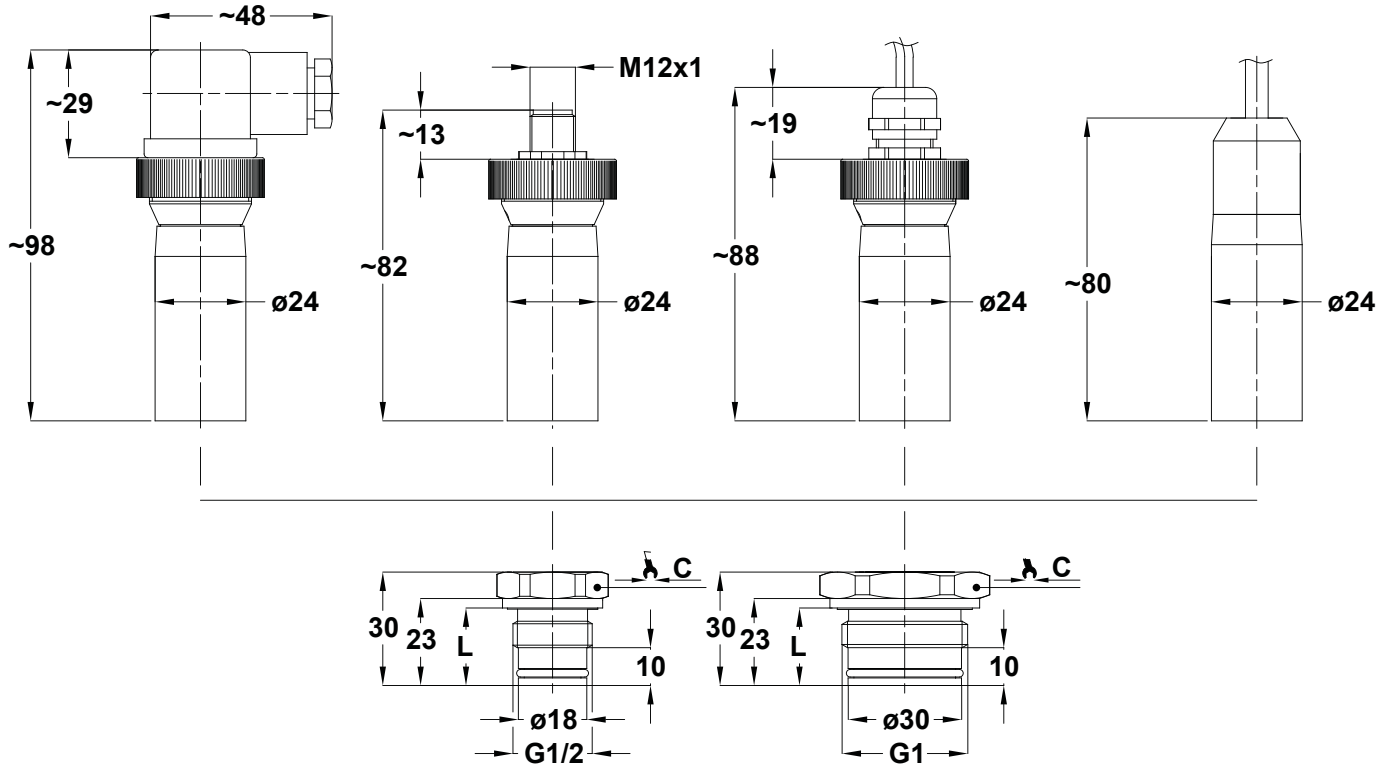
(1) Max error of measurement as per IEC61298-2, non-linearity and hysteresis included (extreme values calibration according to standard IEC 61298-1 when in vertical position)

(2) With properly assembled power connection.

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

ST MA/DG

Rg-09/16



IN ORDER TO IMPROVE THEIR PRODUCTION, MESSRS. NUOVA FIMA RESERVE THE RIGHT TO THEMSELVES TO MAKE ALL THE MODIFICATIONS THAT THEY DEEM INDISPENSABLE AT ANY TIME. UPDATED DATA SHEETS ARE AVAILABLE ON SITE: www.nuovafima.com

Output signals	4...20 mA 4...20 mA
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
41M G 1/2 A	0.62" (20,5)	1.06" (27)
61M 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

FPM -Sealing FPM (-20...+150 °C)	(1)	C01 - Calibration report
NBR -Sealing NBR (-30...+100 °C)		PVC - Electrical connection with cable gland with PVC cable
EPD -Sealing EPDM (-30...+150 °C)	(2)	U68 - 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
5

