

THREAD MOUNT PRESSURE TRANSMITTER

TP23-1

GENERAL

- Thread mount, robust general purpose pressure transmitter
- Automatic compensation for line resistance and power supply changes
- Stainless steel housing – excellent performance with most corrosive media
- Absolute or sealed reference options
- Output: 4-20 mA, 0-5 V, 0-10 V
- Flexible use, best price-quality ratio: ideal for industrial applications
- ATEX option



APPLICATIONS

Measurement & control; naval; refrigeration; Water treatment; pump & compressor; mechanical engineering applications; oil and gas; hydraulic and pneumatic pressure.

MECHANICAL

Standard pressure ranges	2.5	4	6	10	16	25	40	60	100	160	250	bar
	5	60	100	160	200	300	600	1000	1500	2300	3600	psi
Non-standard pressure ranges	0.35	0.7	1	140	200							bar
	5	10	15	2000	3000			other, based on request				psi

Other possible ranges

Over Pressure (No change out of spec.)

Consult Factory

2 x Range

MECHANICAL INTERFACE / GASKET

M 20x1.5, G 1/4, 1/4 NPT, G 1/8, G 3/8, G 1/2, 1/8 NPT, 1/2 NPT, 7/16-20 UNF other on request

Torque: 20-35 Nm max.

Gasket: NBR, FKM, Copper, other.

MEDIUM

Air, water, oil, other fluids compatible with stainless steel.

PERFORMANCE

Performance Option	A	B	
Accuracy (IEC 61298-2)	≤ ± 0.25 %	≤ ± 0.5 %	F.S.
Nonlinearity	≤ ± 0.2 %	≤ ± 0.25 %	BFSL
Hysteresis, repeatability	≤ 0.1 % F.S.		
Total Error Band* 0-50 °C	± 0.75%	% FS MAXIMUM	
Total Error Band* -10-80 °C	± 1.25%	% FS MAXIMUM	
Response time	< 4 ms, depends on fluid viscosity		

*Total error band includes: repeatability, hysteresis, non-linearity, balance thermal drift and full scale thermal sensitivity.

ENVIRONMENTAL

Medium temperature	-30°C to +85° C
Environmental conditions (operational)	-30°C to +85°C
Storage conditions (survives)	-40°C to + 100°C
Shock (IEC 60068-2-27)	100g/11 ms any axis
Vibrations (IEC 60068-2-6)	10g (10 Hz – 2 kHz)
Media Compatibility (wetted surface):	normal and corrosive media, suitable with SS 316 L (1.4404)
Protection class (IEC 60529)	IP 67 or ATEX type, II 1 G Ex ia IIC T4 Ga
Service Life	>10 M cycles

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ELECTRICAL

Output	Supply
4-20 mA	8-30
0-5 V	8-30
0-10 V	14-30
Input Resistance Ω	800 Ω - 1100 Ω (24-30 V)
Current consumption	4-20 mA: 23 mA; 0-5 / 0-10 V: 8 mA

MECHANICAL / INTERFACE

M12 x 1 4 pin aerospace connector

Cable (4 lead, colour-coded red, black, white, green)

Output type: 4-20 mA: 2-wire; 0-5 / 0-10V: 3-wire

