

Economical Pressure Transducer



PXM4100
From
£110
with mV Output

PXM4100 Series
0 to 700 bar
0 to 20 mV, 0 to 10V or
4 to 20mA Outputs

- ✓ 17/4PH Stainless Steel Diaphragm (>10 bar)
- ✓ Micro DIN Connector
- ✓ Gauge and Absolute Models

Specifications

mV Output:-
Excitation: 10 Vdc (15 V max.)
Supply Effects: Ratiometric
Output: 0-20 mV ($\pm 1\%$)
Input/Output Impedance:
1 k Ω $\pm 30\%$ for SS, 15 k Ω $\pm 30\%$ ceramic

Power requirements: 10 mA
10V Output:-

Excitation: 13 to 30 Vdc
Supply Effects: 11 μ V/V
Output: 0-10 Vdc
Load Driving Capability: 5 Ω

4-20mA Output:-
Excitation: 13 to 36 Vdc
Supply Effects: 3 μ V/V
Output: 4-20 mA, 2 wire
Load Driving Capability:
1150 Ω @ 36 Vdc

General:-
Zero Offset: $< \pm 1\%$ FSO
Combined Non-linearity/
hysteresis: $< \pm 0.25\%$ FSO
Repeatability: $< \pm 0.1\%$ FSO

Long Term Stability:
 $< \pm 0.2\%$ FSO/6 Mths
Operating Temperature Range:
-20 to +80°C

Storage Temperature Range:
-40 to +90°C

Thermal Zero Effect: $< \pm 0.03\%$ FSO/°C
Thermal Span Effect: $< \pm 0.04\%$ FSO/°C
Vibration Tolerance: 10g's to 50Hz
Maximum Overpressure: 200% Range
Pressure Connection: 1/4" BSP male

Electrical Connection:
Micro DIN plug and Socket to DIN43650
or 1m PVC screened cable.

Diaphragm:
17/4PH >10bar, Ceramic <10 bar

Enclosure Rating: IP65

Weight: 75 g

OMEGA's PXM4100 series pressure transducers have been designed specifically for general-purpose applications where reliable pressure measurement is required. Incorporating the latest strain gauge technology and using unique manufacturing techniques has resulted in a low cost, quality transducer, ideal for OEM applications.

MOST POPULAR MODELS HIGHLIGHTED

How To Order (Specify Model Number)				
RANGE (bar)	MODEL NO.	PRICE mV	PRICE mA or V	COMPATIBLE METERS
		Output	Output	
0 to 1	PXM410[+]-001[*]	£135	£135	i-SERIES™, DP25B
0 to 1.6	PXM410[+]-1.60[*]	135	135	i-SERIES™, DP25B
0 to 2.5	PXM410[+]-2.50[*]	135	135	i-SERIES™, DP25B
0 to 4	PXM410[+]-004[*]	135	135	i-SERIES™, DP25B
0 to 6	PXM410[+]-006[*]	135	135	i-SERIES™, DP25B
0 to 10	PXM410[+]-010[*]	110	135	i-SERIES™, DP25B
0 to 16	PXM410[+]-016[*]	110	135	i-SERIES™, DP25B
0 to 25	PXM410[+]-025[*]	110	135	i-SERIES™, DP25B
0 to 40	PXM410[+]-040[*]	110	135	i-SERIES™, DP25B
0 to 60	PXM410[+]-060[*]	110	135	i-SERIES™, DP25B
0 to 100	PXM410[+]-100[*]	110	135	i-SERIES™, DP25B
0 to 160	PXM410[+]-160[*]	110	135	i-SERIES™, DP25B
0 to 250	PXM410[+]-250[*]	110	135	i-SERIES™, DP25B
0 to 400	PXM410[+]-400[*]	110	135	i-SERIES™, DP25B
0 to 700	PXM410[+]-700G	110	135	i-SERIES™, DP25B

+Insert 0 for 0-20mV, 1 for 0-10V or 3 for 4-20mA Output.

*Insert G for Gauge, A for Absolute Pressure Ranges
Supplied standard with Micro DIN plug and Socket.

Ordering Example: PXM4100-010G, Pressure Transducer, 0-10bar Gauge Pressure Range, Micro DIN output connector and 0-20mV Output £110



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