

# 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 $\Omega$   $\pm 30\%$  for SS, 15 k $\Omega$   $\pm 30\%$  ceramic

**Power requirements:** 10 mA  
**10V Output:-**

**Excitation:** 13 to 30 Vdc  
**Supply Effects:** 11  $\mu$ V/V  
**Output:** 0-10 Vdc  
**Load Driving Capability:** 5 $\Omega$   
**4-20mA Output:-**

**Excitation:** 13 to 36 Vdc  
**Supply Effects:** 3  $\mu$ V/V  
**Output:** 4-20 mA, 2 wire  
**Load Driving Capability:**  
1150 $\Omega$  @ 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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