

ALD-MPM: Miniature Pressure Transducer

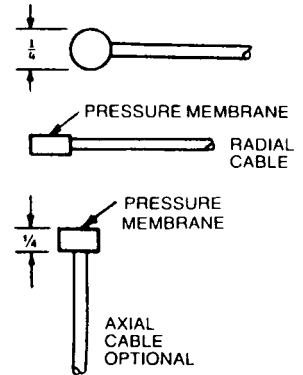
The ALD-MPM Pressure Transducer uses non-metallic membranes as pressure sensing interface with the proven reliability of bonded strain gages. This miniature pressure transducer is built with a full four arm compensates Wheatstone Bridge. Suitable for applications where small size and low pressure measurements are required.

The non-metallic membrane used in this pressure transducer for its pressure sensing diaphragm yields higher sensitivity even under biological pressure conditions. The four arm bridge configuration gives unmatched thermal stability and compensation.

SPECIFICATIONS:

Range: 100, 200, 300 mmHg (non-metallic)
 Output: 2mV/V Nominal
 Excitation: 1 to 5 VDC
 Temp.: 15°F to 150°F (10°C to 65°C) Comp. Temp. Range
 Max Temp.: 200°F (93°C)

Range: 10, 20, 50 psi (0.7, 1.4, 3.5 Kg/cm²) (metallic diaphragm)
 Output: 2mV/V (Nominal)
 Excitation: 10 VDC
 Temp.: 15°F to 150°F (10°C to 65°C) Comp. Temp. Range
 Max Temp.: 200°F (93°C)

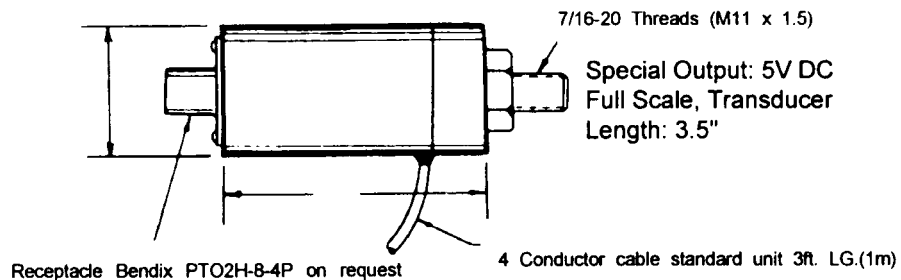


PRESSURE TRANSDUCER: MODEL ALD-B

This transducer is offered in pressure ranges from 0 to 100 PSI, and 0 to 50,000 PSI gage. Low acceleration sensitivity, excellent performance in shock and vibration environments, very short response time and rugged construction are several of the inherent advantages of this type of transducer.

APPLICATIONS:

Pneumatic Systems
 Hydraulic Systems
 Pipeline Monitoring
 Process Control
 Blast Pressures
 Engine Studies



SPECIFICATIONS:

Pressure ranges: 0 to 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 30K, 50K psi
 Proof Pressure: 150% rated capacity
 Burst Pressure: 3.5 times rated range
 Excitation: 5 to 10 VDC or AC
 Output: 2mV/V (Nominal)
 Bridge Resistance: 350Ω nominal (120Ω optional)
 Non-Repeatability: ± 0.5% F.S.
 Temp. Range: 0°F to 200°F (-18°C to 93°C) Operating
 Temp. Range: 15°F to 150°F (-9°C to 65°C) Compensated
 Storage Temp. limits: -50°F to 200°F (-45°C to 93°C)
 Thermal zero shift: less than 2%/100°F (2%/38°C)
 Pressure connector: 7/16-20 threads, male (m11x1.5)
 Frequency response: Fast rise time, as short as 500 micro seconds to reach 90% final output for most applications

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