



"PRESSURE INSTRUMENTATION
FOR THE TOUGHEST APPLICATIONS"



LOW LEVEL, ABSOLUTE, GENERAL PRESSURE TRANSDUCER



Rugged, all welded, stainless steel transducer for general applications, the **210-35-010** offers pressure ranges from **0-2,000** to **0-5,000 PSIA**, operates at temperatures from **-65°F** to **250°F** (-53°C to 121°C) and is ideally suited for rigorous environments found in test stand work and wet industrial applications.

The **210-35-010** is designed to meet the requirements of most pressure monitoring applications. Optional pressure ranges are available upon request.



210-35-010-XX
0-2,000 to 0-5,000 PSIA

Specifications:

Typical Performance: The following parameters are established from production units.

Calibration Data: Calibration Certificates are supplied with each unit.

Performance: *

Thermal Zero Shift: 0.01% of Full Scale Output (F.S.O.) per °F maximum.

Thermal Sensitivity Shift: 0.005% of F.S.O. per °F maximum.

Non-Linearity & Hysteresis Combined: ± 0.25% F.S.O. maximum (Best Straight Line Method).

Repeatability: Within ± 0.05% F.S.O. maximum.

Operating Temperature Range: -65°F to +250°F (-53°C to +121°C).

Compensated Temperature Range: -25°F to +250°F (+31°C to +121°C).

Mechanical: *

Pressure Range: 0-2,000 to 0-5,000 PSIA.

Proof Pressure: 150% of rated range.

Burst Pressure: 200% of rated range.

Pressure Media: Any compatible with 15-5 PH CRES and 17-4 PH CRES.

Electrical Connections: 4 pin bayonet connector. Mates with MS3116-8-4S.

Environmental: Error due to combined effect of shock, vibration, and acceleration shall be less than 0.01% of F.S. per G. Acceleration: 20 G's per MIL-STD-810, METHOD 513.1, PROC. I
Vibration: 20 G's per MIL-STD-810, METHOD 514.1, PROC. V, Shock: 30 G's per MIL-STD-810, METHOD 516.1, PROC. IV.

Pressure Port: Per MS33656-E4.

Weight: 1.5 ounces nominal (0.04 kg).

Installation Information: Boss mounting per MS33649-4 using MS28775-012 size O-ring.

Recommended Installation Torque: 65 in-lb.

Electrical: *

Excitation: 10 VDC.

Input Resistance: 350 ± 70 Ω.

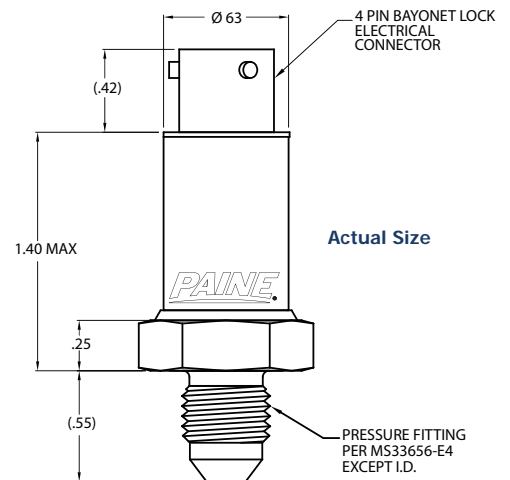
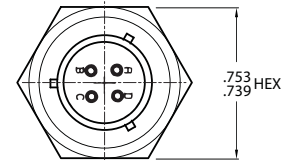
Output Resistance: 350 ± 35 Ω.

Output at Zero Pressure: 0 ± 0.125 mV/V.

Full Scale (F.S.) Sensitivity: 2.5 mV/V ± 10%.

Insulation Resistance: All conductors to case, 10MΩ minimum at 50 VDC.

Electrical Connections: A= + Excitation, B= + Signal, C= - Signal, D= - Excitation



Paine Electronics, LLC is a proud ISO-9001/AS9100 registered company

Datasheet P/N: 210-35-010-DS_REV-C

* Contact us or your authorized Paine Electronics representative for other standard and/or custom configurations or options.

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