



"PRESSURE INSTRUMENTATION FOR THE TOUGHEST APPLICATIONS"

210-35-010 SERIES: mV/V, General Purpose Pressure Sensor 0-5,000 PSIA, +2**50°F**

The **210-35-010 Series** is our rugged stainless steel pressure sensor for **GENERAL PURPOSE** applications.

Offered in pressure ranges from **0-500** to **0-5,000 PSIA & PSIS** the **210-35-010 Series** is all-welded, hermetically sealed construction to operate in the harshest hydraulic and pneumatic environments.

The perfect solution for Industrial and Aerospace test equipment environments and more.



Solutions!

- PSIA & PSIS (Absolute & Sealed Options).
- Harsh/Extreme Environment Ready.
- 5/8" Diameter Package.

Potential Applications:

- Industrial OEM Equipment.
- Aerospace / Defense Test Stands.
- Remotely Operated Vehicles (ROV).
- Motion Simulation Systems.
- Engine Fuel Pressure Monitoring.
- Hydraulic / Pneumatic Control Systems.

Features!

- Operating Temperature: -65°F to +250°F (-53°C to +121°C).
- **Output**: mV/V.
- Pressure Range: 0-500 to 0-5,000 PSIA.
- Thermal Zero Shift: ± 0.01% of Full Scale per °F.
- Operating Media: Compatible with 15-5 PH CRES & 17-4 PH CRES.
- Pressure Fitting: Boss mounting per MS33649-4 using MS28775-012 size O-ring.

Pressure Transducers, Transmitters & Temperature Solutions!

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210-35-010 Series Specifications:

Calibration: Calibration Certificates are supplied with each unit and available on-line. For optimum performance, we recommend annual calibration.

Performance:

Thermal Zero Shift: $\pm 0.01\%$ of Full Scale (F.S.) per °F maximum. Thermal Sensitivity Shift: $\pm 0.005\%$ of Full Scale per °F maximum. Full Scale (F.S.) Sensitivity: 2.5 mV/V $\pm 10\%$. Output at Zero Pressure: $0 \pm 5\%$ of Full Scale. Static Error Band (Non-Linearity and Hysteresis Combined): See Pressure Table Repeatability: Within $\pm 0.05\%$ of Full Scale maximum.

Environmental:

Environmental: Error due to combined effect of shock, vibration and acceleration shall be less than 0.01% of Full Scale per G.

- Acceleration: 20 G's per MIL-G-810, method 513.1, Procedure I.
- Vibration: 20 G's per MIL-STD-810, method 514.1, Procedure.
- Shock: 30 G's Per Mil-Std-810, Method 516.1, Procedure IV.

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:

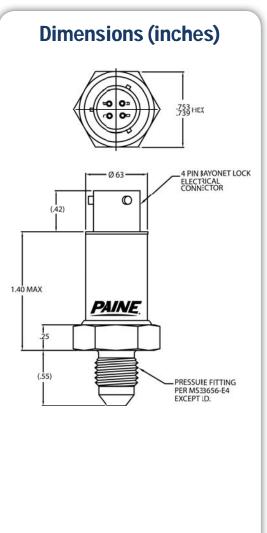
Pressure Range: Lower & Higher pressure ranges are available.

PRESSURE TABLE				
Paine Part Number:	Pressure Range PSIA	Proof Pressure PSIA	Burst Pressure PSIA	Static Error Band (BSLM)
210-35-010-04	0-5,000	7,500	10,000	± 0.25% F.S.

Operating Media: Any compatible with 15-5 PH CRES and 17-4 PH CRES. **Pressure Fitting:** Boss mounting per MS33649-4 using MS28775-012 size O-ring. Recommended installation torgue 65 in-lb. maximum. Optional mounting on .250 O.D. tubing with 37° flare.

Electrical:

Excitation: 10 VDC. Input Resistance: $350 \pm 70 \Omega$ Output Resistance: $350 \pm 35 \Omega$ Insulation Resistance: All conductors to case, $10M\Omega$ mimimum at 50 VDC. Electrical Connections: 4 Pin bayonet locking electrical connector. Mates with MS3116-8-4S. (Paine P/N: 247-99-100-01 sold separately).





CAD & model information is available on our web site or by request.

	Connections				
ſ	PIN	FUNCTION			
	А	+ EXCITATION			
l	В	+ SIGNAL			
	С	- SIGNAL			
	D	- EXCITATION			

Customized to your specific application! Drawing from thousands of top-level

designs, we can customize this sensor to fit your specific needs or application. With your imagination and our design team, anything is possible!

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