

5000 Series Low Pressure Transducer

- ▶ Submersible and General Purpose Models
- ▶ Stainless Steel Case Construction
- ▶ High Proof Pressures

The 5000 Series features a sturdy ceramic diaphragm that detects minute pressure variations, while withstanding large pressure spikes. The tough ceramic sensor is housed in a stainless steel case to ensure performance in the most demanding applications.

Specifications

Input

Pressure Range	10 to 150" wc (0.36 to 5.4psi)
Proof Pressure	30psi (≤ 80 "wc) 60psi (> 80 "wc)
Burst Pressure	45psi (≤ 28 "wc) 60psi (>28 "wc to 80"wc) 90psi (> 80 "wc)
Fatigue Life	10 million FS cycles

Performance

Long Term Stability	0.25% span/annum
Accuracy	0.2% span max
Thermal Error	2% span max
Compensated Temperatures	-4F to 140F (-20°C to 60°C)
Operating Temperatures	-40F to 212F (-40°C to 100°C)
Zero Tolerance	0.1% span
Span Tolerance	0.1% span
Mounting Effects	0.25% span max
Response Time	5ms
Supply Voltage Sensitivity	0.01% span/volt

Mechanical Configuration

Pressure Port	(See Ordering Guide)
Wetted Parts	316 SS, Ceramic, Viton (Nitrile Optional)
Electrical Connection	(See Ordering Guide)
Enclosure	Code M IP68 Submersible Code G IP65
Vibration	35g peak 5-2000 Hz, MIL STD 810, Method 514.2, Procedure I
Acceleration	100g, MIL STD 810C, Method 513.2, Procedure II
Approvals	CE
Weight	330gms (excluding cable) (12oz)

Individual Specifications

Voltage Output units

Output	(See Ordering Guide) (3-wire)
Supply Voltage (Vs)	7.5 to 35vdc (8-35vdc, 1-6vdc Output)

Current Output Unit

Output	4-20 mA (2 wire)
Supply Voltage (Vs)	9 to 35 Vdc
Max. Loop Resistance	(Vs-9) * 50 ohms



