

Sealed Gauge Pressure PG Series

High Accuracy | Stainless Steel | 18" Leads



Robust, chemically compatible micro-machined sensors

Versatile

- 36" wire leads
- 1/4" - 18 NPT

High Reliability...fewer call backs

- Stainless wetted media
- Burst pressure 3X full scale
- Reverse voltage protected
- Rugged stainless steel construction

Superb Accuracy

- $\pm 0.5\%$ overall full scale at room temperature
- $\pm 1\%$ overall full scale over -40°C to 105°C fo 75 PSI to 200 PSI. Includes Repeatability, Hysteresis
- Custom ASIC provides signal conditioning for calibration and temperature compensation
- Compact, Robust Package
- All laser-welded stainless steel design for optimal media isolation
- Chemical Compatibilities: Any gas or liquid compatible with 304L & 316L stainless steel.

Typical applications

Ideal for industrial and commercial applications where pressure measurement, cost, compact size, robust packaging, chemical compatibility and performance are critical.

These are micro-machined, sealed gauge pressure sensors designed to work at pressure ranges with superior accuracy.

- Water
- Refrigeration
- Fuel Cells
- Pumps
- Hydraulics
- Compressors
- Pneumatics
- Agriculture
- Process Control
- Flow
- Hydrogen Storage
- Robotics

Reliability and Environmental Performance

Pressure/Temperature	0 to FS @ 8Hz; and -40°C to 105°C	>1.8x10 ⁶ cycles
Thermal Shock	105°C to -40°C, 0.5 hr soaks at Temp. (2s Transfer)	300 cycles
Vibration	100 to 2000 Hz, 20g Sinusoidal, 3 Axes	144 hours
EMC Compatibility ⁴	10 Volts/meter per EN 61000-4-3	
Humidity	85°C and 90% to 95% R. H.	250 hours
Weight	Model 51 with M12 x 1.5 6g 304L Stainless Port	≤85 grams

Output Type	4-20mA	1-5Volts
Accuracy ¹	<± 0.50% FS	<± 0.50% FS
Zero & Span Error	<± 0.25% FS	<± 0.25% FS
Thermal Error (-40oC to 105oC)	<± 0.50% FS	<± 0.50% FS
Total Error	<± 1.0% FS	<± 1.0% FS
Zero Pressure Offset ²	4.0 mA	1.0 V
Full Scale Output ³	20 mA	5.0 V
Operating Temperature	-40 to 105°C	-40 to 105°C
Storage Temperature	-40 to 105°C	-40 to 105°C
Proof Pressure	3 X FS	3 X FS
Supply Voltage ⁵	8 to 30 Volts	8 to 30 Volts
Supply Current	Not Applicable	< 3 mA
Response Time	< 1 ms	< 1ms

¹ Includes hysteresis, repeatability, & non-linearity (BFSL)

² Transducer output @ 0 PSIA, 0 PSIG, or 0 PSIS (consult factory for other options)

³ Sealed Transducer output @ Pressure Range + 14.5 PSIA

⁴ Higher levels of EMC Compatibility are available upon request.

⁵ Reverse/over-voltage protection (+/- 16V over 5 minutes)

ORDERING

PG - S

Pressure Range

15 = 15 PSIG
 25 = 25 PSIG
 50 = 50 PSIG
 75 = 75 PSIG
 100 = 100 PSIG
 250 = 250 PSIG
 300 = 300 PSIG
 500 = 500 PSIG

Sensor Type

S = Sealed Gauge

Output Type

B = 0-5 VDC
 C = 4-20 mA

