

General Purpose Digital Pressure Gauge Series: PG5



The PG5 digital pressure gauge is the foundation to our PG series of gauges. Built for accurate pressure measurements, the PG5 eliminates inaccuracies for a measurement you can trust.

Features

- Large, full 5-digit display with 0.4 in. characters
- Available ranges from vacuum up to 10,000 psi
- Tare, Peak Hold, and Max/Min functions standard
- $\pm 0.25\%$ accuracy of full scale
- User selectable units of measure (psi, kPa, mmHg, cmHg, mbar, bar, inH₂O, ftH₂O, kg/cm²)



PG5 Specifications



Performance

- Accuracy (linearity & hysteresis):
 $\pm 0.25\%$ of full scale (BFSL)
 $\pm 0.1\%$ accuracy in selected ranges
- Stability – One Year Zero Drift: $< \pm 1\%$ FS
- Thermal Zero Shift: $\pm 0.04\%$ FS/ °F
- Thermal Sensitivity Shift: $\pm 0.04\%$ FS/ °F
- Life: 10 million cycles minimum
- Adjustments: Auto zero, tare

Connectivity

- Output Options:
 4-20 mA, 0-2 VDC, 0-5 VDC

Environmental

- Compensated Temp: 20° - 130°F (-7° - 54°C)
- Storage Temp: -40° - 160°F (-40° - 71°C)
- Operating Temp: 0° - 160°F (-18° - 71°C)

Certification

- NIST certification on select ranges
- CE

Electrical

- Battery Option:
 (1) Standard 9V (typical life 700 hrs)
 Auto-off: 2 - 32 minutes
 Low battery detection with 25% increments
- External Power Option: 9-28 VDC
- 6-Pin Connector: R04-R6M

Programming

- Programmable Features:
 User selectable units of measure, Max/Min Reset & Reading, Peak-Hold, Tare, Sample Rate, Range Adjustment, Adjustable Resolution, Auto-Off

Physical

- Size: 2.66" x 1.55" (67.6 x 39.4 mm)
 Connection: 1.25" (31.8 mm)
- Weight: 0.36 lb (163 grams)
- Injected molded case (EMI-X® PDX-W-88341)
- Wetted Materials:
 316L SS: up to 5,000 psi
 15-5 SS: 5,000 psi and above
- Display: 5 digit LCD, 0.4 in. digits

Common Model Configurations

9V Battery / No Output, 1/4" NPTM Bottom Port

Model Number	Model Description
PG5-15.00-PSIA-F0-L0-E0-P0-N0	0-15 PSI, Absolute Pressure Reference
PG5-15.00-PSIG-F0-L0-E0-P0-N0	0-15 PSI, Gauge Pressure Reference
PG5-30.00-PSIG-F0-L0-E0-P0-N0	0-30 PSI, Gauge Pressure Reference
PG5-50.00-PSIG-F0-L0-E0-P0-N0	0-50 PSI, Gauge Pressure Reference
PG5-100.00-PSIG-F0-L0-E0-P0-N0	0-100 PSI, Gauge Pressure Reference
PG5-200.0-PSIG-F0-L0-E0-P0-N0	0-200 PSI, Gauge Pressure Reference
PG5-300.0-PSIG-F0-L0-E0-P0-N0	0-300 PSI, Gauge Pressure Reference
PG5-500.0-PSIG-F0-L0-E0-P0-N0	0-500 PSI, Gauge Pressure Reference
PG5-1000-PSIS-F0-L0-E0-P0-N0	0-1,000 PSI, Sealed Gauge Pressure Reference
PG5-5000-PSIS-F0-L0-E0-P0-N0	0-5,000 PSI, Sealed Gauge Pressure Reference
PG5-10000-PSIS-F0-L0-E0-P0-N0	0-10,000 PSI, Sealed Gauge Pressure Reference

PG5 Accessories

Please order separately, by part number.

Description	Part Number
6-pin circular mating connector (E1)	509110
6-pin circular mating connector (E1) with cable	509110-00BB (B=cable length)
Panel mount bracket with screws (rear port only)	512598
Power supply w/8 pin terminal block (cable and mating connector not included)	511643
AC to DC external pwr supply (includes E23 Power Jack Barrel 2.5mm connector)	511644
Rear Port Rubber Boot	512628
Bottom Port Rubber Port	512627

Model Configuration Options



Model Number: PG5 - - - - - -
 A B C D E F

A. Common Pressure Ranges

- 5.00 50.00 200.0 1000 5000
- 15.00 60.00 300.0 2000 10000
- 30.00 100.00 500.0 3000

*Other ranges available

B. Pressure Type

- PSIG**[▲] Gauge (≤ 500 psi)
- PSICG** Compound gauge (≤ 500 psi)
- PSIV** Vacuum
- PSIA** Absolute (≤ 500 psi)
- PSIS** Sealed gauge (> 500 psi)

C. Port

- F0**[▲] Bottom
- F1** Rear
- F2** Bottom with O₂ clean
- F3** Rear with O₂ clean
- F5-XX*** Remote transducer with mV sensor-bottom
- F6** Rear port with panel bracket installed
- F7** Bottom port with rubber boot installed
- F10-XX*** Remote transducer with mV sensor-rear
 *XX for feet of cable, 30 ft max.

D. Operation (see Operation Table)

- L0-E0**[▲] 9V battery (no output)
 - L1-E1*** 4-20 mA (loop powered) output
 - L2-E23**† 0-2 VDC output
 - L3-E1*** 0-5 VDC output
 - L4-E23***† External Power
 - L8-E0** Lithium battery (no output)
- *Auto-off options are not available with L1, L3, or L4
 †E23 mating connector included

E. Process Connection

- P0**[▲] 1/4 - 18 NPTM
 - P7** 7/16 - 20 SAE Male
 - P14** 1/8 - 27 NPTM
 - P16** PT 1/4 (BSPM 1/4)
- *Other options available

F. Accuracy

- N0**[▲] ±0.25%
- N1** ±0.25% with NIST certification
- N2** ±0.1% with NIST certification (select ranges)

Note: [▲]Indicates this option is standard.

Operation Table

	L1: 4-20 mA	L2: 0-2 VDC	L3: 0-5 VDC
Input Voltage (Excitation)	9 VDC min - 28 VDC max	Battery Powered	9-28 VDC
Input Current	3-30 mA max		6 mA max
Output	4-20 mA ±0.16 mA at set points	Zero set point ±0.15 C with a 2 VDC span V0.02 VDC	0-5 VDC / ±0.05 VDC at set points
Output/ Input	2 wire loop powered	2 wire	3 wire Non-isolated
Resolution	14 bit	14 bit	14 bit
Protection	Reversed Polarity		Reversed Polarity