

PG10 Digital Pressure Gauge



The PG10 digital pressure gauge gives you true at-a-glance readability with the large 5-digit display and 270° radial bar graph. Built-in datalogging headlines a long list of standard functions.

Features

- Large, full 5-digit display with 0.68 in. characters
- Available ranges from vacuum up to 10,000 psi
- Tare, Peak Hold, Max/Min, and data-logging functions standard
- $\pm 0.25\%$ accuracy of full scale
- User selectable units of measure (psi, kPa, mmHg, cmHg, mbar, bar, inH₂O, ftH₂O, kg/cm², lbf)



PG10 Specifications



Performance

- Accuracy (linearity & hysteresis):
±0.25% of full scale (BFSL)
±0.1% accuracy in selected ranges
- Stability – One Year Zero Drift: <±1% FS
- Thermal Zero Shift: ±0.02% FS/ °F
- Thermal Sensitivity Shift: ±0.02% FS/ °F
- Life: 10 million cycles minimum
- Adjustments: Auto zero, tare

Connectivity

- Output Options:
4-20 mA, 0-2 VDC, 0-5 VDC, SPDT relays,
Normally Open (NO) relays

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:
(2) C alkaline; 8,000 hrs typical
(2) lithium batteries; 12,000 hrs typical
Auto-off: 2-32 minutes
Low battery detection with 25% increments
- External Power Option: 9-28 VDC
- 8-Pin Connector: IP67/68 rated bayonet

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: 5.45" x 2.25" (138.4 x 57.2 mm)
Connection: 1.59" (40.5 mm)
- Weight: 1.6 lb (725.75 grams)
- Weather-resistant injected molded phenolic
- Wetted Materials:
316L SS: up to 5,000 psi
17-4 SS: 5,000 psi and above
- Display: 5 digit LCD, 0.68 in. digits
- IP65

Common Model Configurations

2 C Batteries / No Output, 1/4" NPTM Bottom Port

Model Number	Model Description
PG10-15.00-PSIA-F0-L0-E0-C0-P0-N0	0-15 PSI, Absolute Pressure Reference
PG10-15.00-PSIG-F0-L0-E0-C0-P0-N0	0-15 PSI, Gauge Pressure Reference
PG10-30.00-PSIG-F0-L0-E0-C0-P0-N0	0-30 PSI, Gauge Pressure Reference
PG10-50.00-PSIG-F0-L0-E0-C0-P0-N0	0-50 PSI, Gauge Pressure Reference
PG10-100.00-PSIG-F0-L0-E0-C0-P0-N0	0-100 PSI, Gauge Pressure Reference
PG10-200.0-PSIG-F0-L0-E0-C0-P0-N0	0-200 PSI, Gauge Pressure Reference
PG10-300.0-PSIG-F0-L0-E0-C0-P0-N0	0-300 PSI, Gauge Pressure Reference
PG10-500.0-PSIG-F0-L0-E0-C0-P0-N0	0-500 PSI, Gauge Pressure Reference
PG10-1000-PSIS-F0-L0-E0-C0-P0-N0	0-1,000 PSI, Sealed Gauge Pressure Reference
PG10-5000-PSIS-F0-L0-E0-C0-P0-N0	0-5,000 PSI, Sealed Gauge Pressure Reference
PG10-10000-PSIS-F0-L0-E0-C0-P0-N0	0-10,000 PSI, Sealed Gauge Pressure Reference

PG10 Accessories

Please order separately, by part number.

Description	Part Number
8-pin circular mating connector (E35)	135007
8-pin circular mating connector (E35) with cable	135007-00BB (B=cable length)
Power supply w/8 pin terminal block (cable & mating connector not included)	511643
Panel mount bracket with screws	512600

Model Configuration Options



Model Number: PG10 - - - - - - -
 A B C D E F G

A. Common Pressure Ranges*

- 5.000 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
 - F10-XX*** Remote transducer with mV sensor-rear
- *XX for feet of cable, 30 ft max.

D. Operation (see Operation Table)

- L0-E0**[▲] (2) C batteries; no output
 - L1-E35**[†] 4-20 mA (loop powered) output
 - L2-E35**[†] 0-2 VDC output
 - L3-E35**[†] 0-5 VDC output
 - L4-E35**[†] External Power
 - L5-E35**[†] RS-485: External Power, Logging Software
 - L7-E0** (2) C-size lithium batteries (no output)
- *Auto-off options are not available with L1, L3, or L4
[†]E35 connector sold separately.

E. Relays

- C0**[▲] No Relays
 - C4*** (2) SPDT mechanical relays with Visual Indication
- *L1-L4: SPDT relays; L5: NO relays

F. 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

G. 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