

# IP65 Digital Pressure Gauge with 5.5" Display Series: PG10



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, inH<sub>2</sub>O, ftH<sub>2</sub>O, kg/cm<sup>2</sup>, lbf)
- Available RS-485/Modbus Output



# PG10 Specifications



## Performance

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

## Connectivity

- Output Options:  
 4-20 mA, 0-2 VDC, 0-5 VDC, RS-485, 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  
 15-5 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	<b>0-15 PSI, Absolute</b> Pressure Reference
PG10-15.00-PSIG-F0-L0-E0-C0-P0-N0	<b>0-15 PSI, Gauge</b> Pressure Reference
PG10-30.00-PSIG-F0-L0-E0-C0-P0-N0	<b>0-30 PSI, Gauge</b> Pressure Reference
PG10-50.00-PSIG-F0-L0-E0-C0-P0-N0	<b>0-50 PSI, Gauge</b> Pressure Reference
PG10-100.00-PSIG-F0-L0-E0-C0-P0-N0	<b>0-100 PSI, Gauge</b> Pressure Reference
PG10-200.0-PSIG-F0-L0-E0-C0-P0-N0	<b>0-200 PSI, Gauge</b> Pressure Reference
PG10-300.0-PSIG-F0-L0-E0-C0-P0-N0	<b>0-300 PSI, Gauge</b> Pressure Reference
PG10-500.0-PSIG-F0-L0-E0-C0-P0-N0	<b>0-500 PSI, Gauge</b> Pressure Reference
PG10-1000-PSIS-F0-L0-E0-C0-P0-N0	<b>0-1,000 PSI, Sealed Gauge</b> Pressure Reference
PG10-5000-PSIS-F0-L0-E0-C0-P0-N0	<b>0-5,000 PSI, Sealed Gauge</b> Pressure Reference
PG10-10000-PSIS-F0-L0-E0-C0-P0-N0	<b>0-10,000 PSI, Sealed Gauge</b> 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**<sup>▲</sup>    Gauge (≤ 500 psi)
- PSICG**    Compound gauge (≤ 500 psi)
- PSIV**    Vacuum
- PSIA**    Absolute (≤ 500 psi)
- PSIS**    Sealed gauge (≥ 500 psi)

## C. Port

- F0**<sup>▲</sup>    Bottom
- F1**    Rear
- F2**    Bottom with O<sub>2</sub> clean
- F3**    Rear with O<sub>2</sub> 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**<sup>▲</sup>    (2) C batteries; no output
- L1-E35**<sup>†</sup>    4-20 mA (loop powered) output
- L2-E35**<sup>†</sup>    0-2 VDC output
- L3-E35**<sup>†</sup>    0-5 VDC output
- L4-E35**<sup>†</sup>    External Power
- L5-E35**<sup>†</sup>    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**<sup>▲</sup>    No Relays
  - C4**\*    (2) SPDT mechanical relays with Visual Indication
- \*L1-L4: SPDT relays; L5: NO relays

## F. Process Connection\*

- P0**<sup>▲</sup>    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**<sup>▲</sup>    ±0.25%
- N1**    ±0.25% with NIST certification
- N2**    ±0.1% with NIST certification (select ranges)

Note: <sup>▲</sup> Indicates this option is standard.

## Operation Table

	L1: 4-20 mA	L2: 0-2 VDC	L3: 0-5 VDC	L5: RS-485
<b>Input Voltage (Excitation)</b>	9 VDC min - 28 VDC max	Battery Powered	9-28 VDC	12-28 VDC
<b>Input Current</b>	3-30 mA max		6 mA max	6 mA max
<b>Output</b>	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	RS-485 Modbus RTU
<b>Wiring</b>	2 wire loop powered	2 wire	3 wire Non-isolated	4 wire
<b>Resolution</b>	14 bit	14 bit	14 bit	
<b>Protection</b>	Reversed Polarity		Reversed Polarity	Reversed Polarity