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 270º 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
- ±0.25% accuracy of full scale
- User selectable units of measure (psi, kPa, mmHg, cmHg, mbar, bar, inH₂O, ftH₂O, kg/cm², lbf)
- Available RS-485/Modbus Output
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: ±0.04% FS/°F
- Thermal Sensitivity Shift: ±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, RS-485, SPDT relays, Normally Open (NO) relays

**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

**Environmental**
- Compensated Temp: 20º - 130ºF (-7º - 54ºC)
- Storage Temp: -40º - 160ºF (-40º - 71ºC)
- Operating Temp: 0º - 160ºF (-18º - 71ºC)

**Certification**
- NIST certification on select ranges
- CE

**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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG10-15.00-PSIA-F0-L0-E0-C0-P0-N0</td>
<td>0-15 PSI, Absolute Pressure Reference</td>
</tr>
<tr>
<td>PG10-15.00-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-15 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-30.00-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-30 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-50.00-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-50 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-100.00-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-100 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-200.0-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-200 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-300.0-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-300 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-500.0-PSIG-F0-L0-E0-C0-P0-N0</td>
<td>0-500 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-1000.0-PSIS-F0-L0-E0-C0-P0-N0</td>
<td>0-1,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-5000.0-PSIS-F0-L0-E0-C0-P0-N0</td>
<td>0-5,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG10-10000-PSIS-F0-L0-E0-C0-P0-N0</td>
<td>0-10,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
</tbody>
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PG10 Accessories

Please order separately, by part number.

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>8-pin circular mating connector (E35)</td>
<td>135007</td>
</tr>
<tr>
<td>8-pin circular mating connector (E35) with cable</td>
<td>135007-00BB (B=cable length)</td>
</tr>
<tr>
<td>Power supply w/8 pin terminal block (cable &amp; mating connector not included)</td>
<td>511643</td>
</tr>
<tr>
<td>Panel mount bracket with screws</td>
<td>512600</td>
</tr>
</tbody>
</table>
Model Configuration Options

Model Number: PG10 - _____ - _____ - _____ - _____ - _____ - _____ - _____

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  ☐ 10000

*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

<table>
<thead>
<tr>
<th>Input Voltage (Excitation)</th>
<th>L1: 4-20 mA</th>
<th>L2: 0-2 VDC</th>
<th>L3: 0-5 VDC</th>
<th>L5: RS-485</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 VDC min - 28 VDC max</td>
<td>Battery Powered</td>
<td>9-28 VDC</td>
<td>12-28 VDC</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Current</th>
<th>3-30 mA max</th>
<th>6 mA max</th>
<th>6 mA max</th>
</tr>
</thead>
</table>

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<tr>
<th>Output</th>
<th>4-20 mA ±0.16 mA at set points</th>
<th>Zero set point ±0.15 C with a 2 VDC span of ±0.05 VDC at set points</th>
<th>RS-485 Modbus RTU</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Wiring</th>
<th>2 wire loop powered</th>
<th>2 wire</th>
<th>3 wire Non-isolated</th>
<th>4 wire</th>
</tr>
</thead>
</table>

<table>
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<tr>
<th>Resolution</th>
<th>14 bit</th>
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<table>
<thead>
<tr>
<th>Protection</th>
<th>Reversed Polarity</th>
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