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
• ±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):
  - ±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

**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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG5-15.00-PSIA-F0-L0-E0-P0-N0</td>
<td>0-15 PSI, Absolute Pressure Reference</td>
</tr>
<tr>
<td>PG5-15.00-PSIG-F0-L0-E0-P0-N0</td>
<td>0-15 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-30.00-PSIG-F0-L0-E0-P0-N0</td>
<td>0-30 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-50.00-PSIG-F0-L0-E0-P0-N0</td>
<td>0-50 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-100.00-PSIG-F0-L0-E0-P0-N0</td>
<td>0-100 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-200.0-PSIG-F0-L0-E0-P0-N0</td>
<td>0-200 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-300.0-PSIG-F0-L0-E0-P0-N0</td>
<td>0-300 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-500.0-PSIG-F0-L0-E0-P0-N0</td>
<td>0-500 PSI, Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-1000.0-PSIS-F0-L0-E0-P0-N0</td>
<td>0-1,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-5000.0-PSIS-F0-L0-E0-P0-N0</td>
<td>0-5,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
<tr>
<td>PG5-10000.0-PSIS-F0-L0-E0-P0-N0</td>
<td>0-10,000 PSI, Sealed Gauge Pressure Reference</td>
</tr>
</tbody>
</table>

PG5 Accessories

Please order separately, by part number.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-pin circular mating connector (E1)</td>
<td>509110</td>
</tr>
<tr>
<td>6-pin circular mating connector (E1) with cable</td>
<td>509110-00BB</td>
</tr>
<tr>
<td>Panel mount bracket with screws (rear port only)</td>
<td>512598</td>
</tr>
<tr>
<td>Power supply w/8 pin terminal block (cable and mating connector not included)</td>
<td>511643</td>
</tr>
<tr>
<td>AC to DC external pwr supply (includes E23 Power Jack Barrel 2.5mm connector)</td>
<td>511644</td>
</tr>
<tr>
<td>Rear Port Rubber Boot</td>
<td>512628</td>
</tr>
<tr>
<td>Bottom Port Rubber Port</td>
<td>512627</td>
</tr>
</tbody>
</table>
Model Configuration Options

Model Number: PG5 - _____ - _____ - _____ - _____ - _____ - _____

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
- ☐ PSA ▲ 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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>9 VDC min - 28 VDC max</td>
<td>Battery</td>
<td>Powered</td>
<td>9-28 VDC</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Output</th>
<th>4-20 mA</th>
<th>Zero set point</th>
<th>0-5 VDC / ±0.05 VDC at set points</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.16 mA at set points</td>
<td>±0.15 C with a 2 VDC span V0.02 VDC</td>
<td>±0.05 VDC at set points</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output/Input</th>
<th>2 wire</th>
<th>2 wire</th>
<th>3 wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 wire loop powered</td>
<td>2 wire</td>
<td>Non-isolated</td>
<td></td>
</tr>
</tbody>
</table>

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