



PG7 SERIES

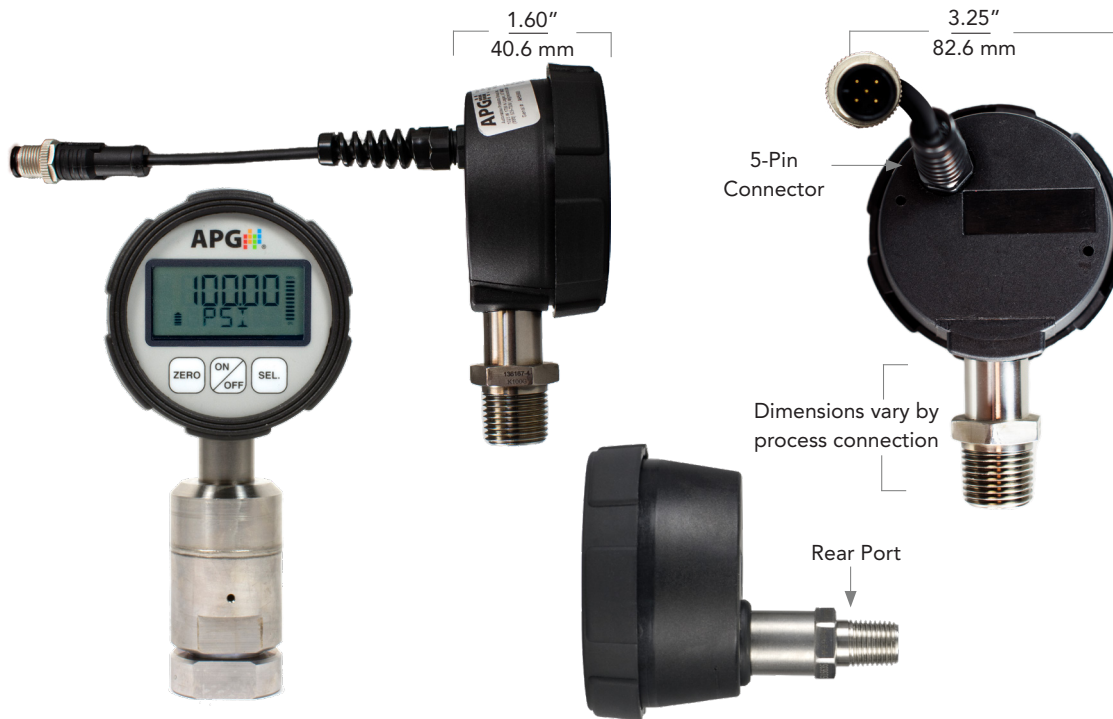
Digital Pressure Gauge with 0.25% Accuracy

The PG7 digital pressure gauge is built for accurate pressure measurements in indoor/outdoor environments. With its ease of operation, high accuracy, and many standard features, the PG7 is perfect for a variety of applications.

FEATURES

- Large, full 5-digit display with 0.4 in. characters
- Available ranges from vacuum up to 30,000 psi
- Environmentally sealed housing
- 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)
- Available RS-485/Modbus RTU output

PG7 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
- **Overpressure:**
Proof: 1.5x full scale
Burst: 3x full scale

CONNECTIVITY

- **Output Options:**
4-20 mA, 0-5 VDC, RS-485

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

ELECTRICAL

- **Battery Option:**
(2) AA alkaline (typical life 2,000 hrs)
Auto-off: 15 second - 32 minutes
Low battery detection with 25% increments
- **External Power Option:** 9-28 VDC
- **5-Pin M12 Connector**

PHYSICAL

- **Size:** 3.25" x 1.6" (82.6 x 40.6 mm)
Connection: 1.47" (37.3 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 to 10,000 psi
Incoloy: 10,000 psi and above
- **Display:** 5 digit LCD, 0.4 in. digits

PHYSICAL

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

COMMON MODEL CONFIGURATIONS

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

Model Number	Model Description
PG7-15.00-PSIA-F0-L0-E0-C0-P0-N0	0-15 PSI, Absolute Pressure Reference
PG7-15.00-PSIG-F0-L0-E0-C0-P0-N0	0-15 PSI, Gauge Pressure Reference
PG7-30.00-PSIG-F0-L0-E0-C0-P0-N0	0-30 PSI, Gauge Pressure Reference
PG7-50.00-PSIG-F0-L0-E0-C0-P0-N0	0-50 PSI, Gauge Pressure Reference
PG7-100.00-PSIG-F0-L0-E0-C0-P0-N0	0-100 PSI, Gauge Pressure Reference
PG7-200.0-PSIG-F0-L0-E0-C0-P0-N0	0-200 PSI, Gauge Pressure Reference
PG7-300.0-PSIG-F0-L0-E0-C0-P0-N0	0-300 PSI, Gauge Pressure Reference
PG7-500.0-PSIG-F0-L0-E0-C0-P0-N0	0-500 PSI, Gauge Pressure Reference
PG7-1000-PSIS-F0-L0-E0-C0-P0-N0	0-1,000 PSI, Sealed Gauge Pressure Reference
PG7-5000-PSIS-F0-L0-E0-C0-P0-N0	0-5,000 PSI, Sealed Gauge Pressure Reference
PG7-10000-PSIS-F0-L0-E0-C0-P0-N0	0-10,000 PSI, Sealed Gauge Pressure Reference

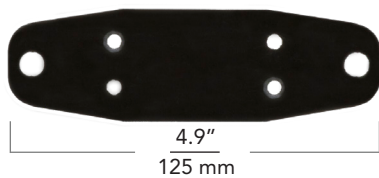
PG7 ACCESSORIES

Please order separately, by part number. For featured accessories, see page 5.

Description	Part Number
5-pin M12 mating connector (E73)	200276
5-pin M12 mating connector (E73) with cable	200900-00BB (B=Cable Length)
Flush Panelmount bracket	512591
Flat mount bracket	110542-0002
Standoff Panelmount bracket	512599
Power supply w/8 pin terminal block (cable & mating connector not included)	511643
Rubber Boot	512626

Mounting Bracket Options

Flat Mount Bracket (Black Acrylic 3/16")



Standoff Panelmount Bracket



Rubber Boot



Flush Panelmount Bracket



MODEL CONFIGURATION OPTIONS

MODEL NUMBER: PG7 - - - - - - - -
 A B C D E F G H

A. Common Pressure Ranges—PSI

- ☐ 5.000 ☐ 50.00 ☐ 200.0 ☐ 1000 ☐ 5000
☐ 15.00 ☐ 60.00 ☐ 300.0 ☐ 2000 ☐ 10000
☐ 30.00 ☐ 100.00 ☐ 500.0 ☐ 3000 ☐ 30000

Other ranges available. Please consult factory.

B. Pressure Type

- ☐ **A** Absolute (10–200 psi)
☐ **S*** Sealed (200 psi–30,000 psi)
☐ **G** Gauge (≤500 psi)
☐ **CG** Compound Gauge (-1– psi or -15–15 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*** (2) AA batteries; no output
☐ **L1-E73†** 4-20 mA (loop powered) output
☐ **L3-E73†** External power; 0-5 VDC output
☐ **L4-E73†** External Power; no output
☐ **L5-E73** RS-485: External Power, Logging Software
†Auto-off options are not available with L1, L3, or L4

E. Relays

- ☐ **C0*** No Solid-State Relays

Note: *Indicates this option is standard.

F. Process Connection

- ☐ **P0*** 1/4 - 18 NPTM
☐ **P1** 1/2- 27 NPTM
☐ **P7** 7/16 - 20 SAE Male
☐ **P14** 1/8 - 27 NPTM
☐ **P16** PT 1/4 (BSPM 1/4)
☐ **P56** F250C High Pressure (10,000 psi - 30,000 psi)
☐ **P57** F562-C40 High Pressure (10,000 psi - 30,000 psi)
Other options available. Please consult factory.

G. Accuracy

1–10,000 psi

- ☐ **N0*†** ±0.25% (1% for pressure ≤ 1 psi)
☐ **N1†** ±0.25% with NIST certification
☐ **N2†** ±0.1% with NIST certification (select ranges)

† Available only up to 5,000 psi for L2 and L3

Up to 30,000 psi

- ☐ **N12** ±0.5%
☐ **N13** ±0.5% with NIST certification

H. Backlight

- ☐ **H0*** 316L SS (≤ 1,000 psi)
☐ **H1†** 17-4 SS (> 1,000 psi)

†Backlight available with L3, L4, or L5 only

Operation Table

	L1: 4-20 mA	L3: 0-5 VDC	L5: RS-485
Input Voltage (Excitation)	9 VDC min - 28 VDC max	9-28 VDC	12-28 VDC
Input Current	3-30 mA max	6 mA max	6 mA max
Output	4-20 mA ±0.16 mA at set points	0-5 VDC / ±0.05 VDC at set points	RS-485 Modbus RTU
Wiring	2 wire loop powered	4 wire	4 wire
Resolution	14 bit	14 bit	
Protection	Reversed Polarity	Reversed Polarity	Reversed Polarity
Backlight	No	Yes	Yes

FEATURED ACCESSORIES

S SETTLER

Your Gateway to Smarter Monitoring

Settler, APG's next remote monitoring gateway, makes getting real-time level data easier than ever.

Settler seamlessly connects Modbus and 4-20 mA sensors—transmitting encrypted data securely to Explorer, APG's cloud-based interface. View tank and well levels anytime, anywhere, with reliable connectivity and robust data security powered by MQTT with AES (Advanced Encryption Standard). Plus, with over-the-air (OTA) firmware updates, your system stays up to date without hassle.

Explorer makes monitoring simple. Access real-time readings, enable datalogging, and set up alarms so you're always informed of critical changes—right from your smartphone, tablet, or desktop.

Save time, reduce costs, and gain peace of mind with remote monitoring powered by Settler and Explorer. Contact us today to learn more or visit

apgsensors.com/settler-remote-monitoring-gateway/.



MODBUS SCOUT (SCT-1)

Effortless Modbus to Bluetooth® Adapter

Streamline field diagnostics with this portable and user-friendly RS485 Modbus communication tool. APG's Modbus Scout allows users to connect to their Modbus sensor in the field via an easy-to-use app or a USB port. Unlock the ability to configure, communicate with, and broadcast simple in-range readings with your Modbus sensor.

Make your setup easy and save time with APG's Modbus Scout. Get started today at apgsensors.com/product/modbus-scout.