BATTERY-, LOOP-, AND AC-POWERED DIGITAL PRESSURE GAUGES **POMEGA**

Three Power Options: Battery. Loop. or AC/DC



DPG1000 Series



- ✓ Vacuum to 5000 psi Ranges
- ✓ 316 SS Wetted Parts
- ✓ Loop Test Function
- ✓ Easy-to-Read 3½ Digit LCD
- ✓ Pressure or Vacuum Applications
- ✓ Rugged Aluminum or NEMA 4X (IP66) Case

The DPG1000 Series is a versatile family of industrial pressure/vacuum gauges. All DPG1000 models feature a large 13 mm (½") high digital display in a rugged, splashproof extruded aluminum case.

A 1/4-18 NPT 316 stainless steel fitting is standard for the pressure connection. Media compatibility includes all liquids and gases compatible with 316 SS.

The DPG1000B Series features a wide operating temperature range of -20 to 85°C (-4 to 185°F). Many standard pressure/vacuum ranges (in a choice of engineering units) with both gauge and absolute references are available. The series also features ± 2x overpressure. and 4x burst specifications, and are available with either 0.25% or 0.10% accuracy.

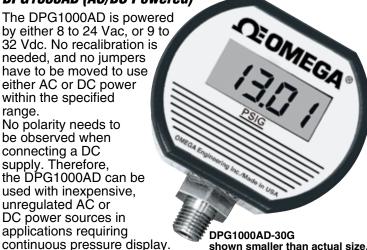
DPG1000AD (AC/DC Powered)

The DPG1000AD is powered by either 8 to 24 Vac, or 9 to 32 Vdc. No recalibration is needed, and no jumpers have to be moved to use either AC or DC power within the specified range. No polarity needs to be observed when connecting a DC supply. Therefore, the DPG1000AD can be used with inexpensive,

unregulated AC or

DC power sources in

applications requiring



shown smaller than actual size.

DPG1000B-300G

shown smaller than actual size.

Backlit

Display

Optional!

DPG1000B (Battery Powered)

The DPG1000B is powered by standard AA batteries that can operate the gauge for approximately 2500 hours. All DPG1000B models include a standard 5 minute auto shutoff feature to conserve battery life. Low-battery indication is also standard. An optional rubber boot (DPG1000-RB) is available. Requiring no electrical connection, the DPG1000B works equally well in portable or fixed applications.



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All operating power for the DPG1000L gauge is supplied by the 4 to 20 mA output loop. This "2-wire" connection lets the DPG1000L operate as a digital indicating transmitter in any 4 to 20 mA current loop application. Individual, noninteractive controls are available for the zero/span display and the output loop 4 to 20 mA settings. Connection to the DPG1000L is made via a 2-conductor cable at the back of the gauge.

A front-accessible TEST pushbutton switches the display and output loop to a preset level determined by the setting of a "Test Calibration" potentiometer. This feature allows easy testing of the display and process loop with a preset input signal in place of the actual input. The DPG1000L also includes "low loop" warning circuitry. This circuitry indicates on the display when the loop supply voltage falls below a level that may not be sufficient to drive a full 20 mA into the loop load resistance. These 2 proprietary features make the DPG1000L easier to set up and maintain.

DIGITAL PRESSURE GAUGES ±0.10 AND 0.25% ACCURACY MODELS



SPECIFICATIONS

Power: 2 "AA" batteries (included), provide

B Models: Up to 2500 hr life typically; auto shut-off: 5 min;

LOBAT indication

L Models: 8 to 32 Vdc at gauge; reverse polarity protected AD Models: 8 to 24 Vac 50 to 60 Hz or 9 to 32 Vdc;

5 mA max

Pressure/Vacuum Reference:

Gage (psig) or absolute (psia)

Optional Units: Gauge can be factory scaled to any engineering unit such as psi, kPa, bar, mbar, inHg, inH₂O, mmHg, ftH2O, torr, kg/cm2

Display Type/Size: LCD, 13 mm (0.5") digit height, 3 readings per second

Controls and Location:

B and AD models: Display zero/span, non-interactive, ±15% range; top-accessible, multiturn potentiometers L Models: Display zero/span, non-interactive, ±15% range; test calibration level, 0 to 100% range; topaccessible, multiturn potentiometers; loop 4 mA and 20 mA internal potentiometers

Accuracy:

DPG1000/1100: ±0.25% FSO or better, ±1 least significant digit (includes linearity, hysteresis, repeatability) **DPG1001:** ±0.10% FSO or better, ±1 least significant digit

(includes linearity, hysteresis, repeatability)

Temperature Stability [25°C (77°F)]: DPG1000/1100: ±0.25% FSO or better, ±1 least significant digit (includes linearity, hysteresis, repeatability)±1% FS for offset and span, 0 to 70°C (32 to 158°F) typical; $\pm 2\%$ FS for offset and span, 0 to 70°C (32 to 158°F) typical for 3 and 5 psi range

DPG1001: ±0.003% FSO or better, ±1 least significant digit (includes linearity, hysteresis, repeatability); NIST traceable certificate included

Operating Temperature: -20 to 85°C (-4 to 185°F) Compensated Temperature: 0 to 70°C (32 to 158°F) Storage Temperature: -55 to 95°C (-67 to 203°F)

Weight: Approx. 255 g (9 oz)

Standard Case: Extruded aluminum case, epoxy powder coated; poly-carbonate cover, front and rear gaskets

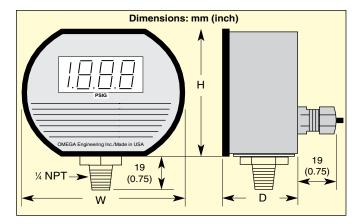
NEMA 4X Case (DPG1100 models): UV stabilized polycarbonate/ABS case, clear polycarbonate window, gasketed rear cover, captive SS screws

Pressure/Vacuum Connection: 316 SS, 1/4-18 MNPT

Wetted Parts: 316 SS

Electrical Connection: 0.9 m (3') 2-conductor 22 AWG cable

(none required on DPG1000B) Overpressure: 2x rated pressure min Burst Pressure: 4x rated pressure min



Dimensions: mm (inch)

	W	Н	D
Std Case	86 (3.38)	73 (2.88)	42 (1.65)
NEMA 4X	89 (3.5)	76 (3.0)	51 (2.0)

OPTIONS

ORDER SUFFIX	DESCRIPTION
-F10	10 min auto shut-off for DPG1000B units
-F30	30 min auto shut-off for DPG1000B unit
-NS	No auto shut-off for DPG1000B units
BL	Backlit display*

^{*} Not available with DPG1000L models, with compound range "30V100G" models, or with DPG1001 models.

ACCESSORIES

MODEL NO.	DESCRIPTION
DPG1000-PS	Wall mount 115 Vac power supply for DPG1000AD units
DPG1000-RB	Rubber boot for DP1000B units

Comes complete with operator's manual. DPG1001 models also include NIST-traceable calibration certificate.

Ordering Examples: DPG1000B-100G, $\pm 0.25\%$ battery-powered digital gauge, 0 to 100.0 psig range. DPG1000BBL-60G, battery-powered $\pm 0.25\%$ unit, 60 psi range.

DPG1001L-500G, ±0.1% loop-powered digital gauge, 0 to 500 psig range.

^{15, 30} and 100 psi models available with absolute pressure range. Change model number from "-15G" to "-15A", "-30G" to "-30A", or "-100G" to "-100A", and add additional cost to price.