

## Advanced Digital Pressure Gauge

- User friendly, 4-button interface
- Large 1" digits for high visibility
- Bright backlight display
- 15 selectable pressure units
- Adjustable zero-point for gauge pressure units
- Adjustable reading rate
- 4 primary modes of operation
  - Normal
  - Minimum Reading
  - Maximum Reading
  - Tare



### Overview

The DPG509 series is Omega's newest series of digital pressure gauges. This series was designed with maximum functionality and usability in mind. We've created a new, user-friendly interface with four clearly labeled buttons and a large, 4 digit, backlit display. An engineered thermoplastic housing with an IP65 rating provides durability in harsh environments. And long-lasting power is supplied by 4 AA batteries.

### Configurable Menu Features

Users have four different operation modes to select from. **Normal** mode displays the last pressure reading. **Tare** mode zeros the unit at an applied pressure. **Minimum** and **Maximum** modes display the lowest and highest recorded pressure readings respectively. There are also additional settings that can be adjusted to best suit your process including the shut-off timer, sampling rate, range plotting, pressure units, and zero-point adjustment.

### Future DPG509 Options

Our current product selection is the first release of many in this series. We are developing even more product options and features to offer our customers more configurability within the DPG509 series.

In the near future, you can expect to see this series include options for additional pressure ranges, higher accuracies, power supplies, outputs, and data logging.





## Advanced Digital Pressure Gauge

### Specifications

Accuracy (Combined Linearity, Hysteresis and Repeatability)	±0.25% Full Scale Span
Long Term Stability	±0.3% Span/Year
Power Supply	4 Alkaline AA Batteries
Battery Life (Typical)	1000 hours, no backlight usage
Display	4-digit LCD with backlight and 25 mm (1") character height.
LCD Icons	MIN, MAX, BAT, HAL, LAL, SET
User Interface	4 membrane key switches
Minimum Resistance Between Transducer Body and any Wire	100 MOhms @100 V <sub>DC</sub>
Engineering Units	psi, bar, mbar, inH <sub>2</sub> O, ftH <sub>2</sub> O, mmH <sub>2</sub> O, inHG, mmHG, cmHG, Pa, hPa, kPa, MPa, ATM, TORR
Zero	Rezeros the pressure reading
Modes	<i>Normal</i> : Displays pressure applied
	<i>TARE</i> : Sets a new zero point at the current reading then displays the offset pressure applied
	<i>Min</i> : LCD constantly displays the lowest recorded pressure reading
	<i>Max</i> : LCD constantly displays the highest recorded pressure reading
Options	<i>Time</i> : Sets the amount of time the display is visible before being turned off. Timer options are: off, 1 minute, 5 minutes, 30 minutes, 1 hour, 2 hours, 8 hours, and 24 hours
	<i>Rate</i> : Sets the display update rate. Options are: 0.1, 0.2, 1, 2, 5, and 10 Hz
	<i>Plot</i> : Displays a 20 segment bar graph of applied pressure
Storage Temperature (without batteries)	-40°C to 82°C (-40°F to 180°F)
Operating Temperature	-17°C to 54°C (0°F to 130°F)
Pressure Type	Gauge, Absolute
Pressure Cycles	1 million
Over Pressure	1.5 x rated pressure
Material	Engineered Thermoplastic Enclosure
Sensor Wetted Parts	316L Stainless Steel, Viton Seal
Pressure Connection	1/4-18 NPT, 1/8-27 NPT, BSPP 1/8 B, BSPP 1/4 B, 7/16-20 UNJF (MS33656-04), 9/16-18 UNF, M12x1.5
Display Body	4.95" (126 mm) x 2.17" (55 mm)
Enclosure rotation after securing fluid connection	±135°
Weight	1.25 lb
Environmental Rating	IP65
CE	EN61326-1: 2012
RoHS	2015/863
Vibration	ASME B40.7

## Advanced Digital Pressure Gauge

### Keypad Table

	Power / Backlight	Turns the unit on and off / Turn backlight on
	Max / Scroll Up	Displays the maximum reading / Scroll up in menu navigation
	Menu / Enter	Enter / Access the menu / Exit the menu
	Min / Scroll Down	Displays the minimum reading / Scroll down in menu navigation

### DPG509 Dimensions

