VERY HIGH ACCURACY DIGITAL PRESSURE GAUGE STAINLESS STEEL WETTED PARTS AND BODY



PRESSURE GAUGES

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Gauge, Absolute, Sealed Gauge. Compound Gauge, Vacuum and **Barometric Models** 0-10 inH₂0 to 0-5000 psi (0-25 mb to 0-345 bar) OMEGADYNE® Magnetic stylus (included). DPG409 Series ******100% **F** RoHS NIST 8 0 Standard 0 \mathbb{C} NEMA 4X case. DPG409-500G, shown smaller than actual size. Analog Output ✓ 5-PT NIST Traceable Standard, Wireless **Calibration Included** Transmitter ✓ Easy to Read 25 mm (1") Optional **Backlit LCD Display** High 0.08% Accuracy Fast Delivery -Hi and Lo Alarms Typically Stock to Standard 2-Weeks! Standard integral MIN/MAX/AVG Reading pressure sensor.

- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- Included Setup and Service Software Allows for Fast Maintenance and Calibration via USB Connection
- Wireless Transmitter Option Sends Reading to Remote Location and Includes Charting and Data Logging Software
- Tested to Industrial CE Standards
- Battery Powered with Long Battery Life

OMEGA's DPG409 digital pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer with 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge designed to survive harsh industrial environments. The large 25 mm (1") display is easy to read at a distance up to 11 m (35'). Models are available in Gauge, Sealed Gauge, Compound Gauge, Absolute, Vacuum and Barometric pressure ranges. Standard features include a highly stable silicon sensor, selectable MIN/MAX and AVG readings, Hi and LO alarms

and an externally powered user selectable analog output. An optional wireless transmitter feature with software allows the signal to be transmitted to a remote location such as a PC for charting and data logging. Power is from an internal long life battery (included) or an externally supplied dc voltage source. Each unit is supplied with configuration software that allows the user connect to a pc via a standard USB connection (cable included) and select a variety of user configurable features including update rate, units and backlight.



SPECIFICATIONS

RoHS Compliant

CE Compliant: Meets EN1326-1: 2006 for industrial locations with analog output cables 3 m (9.8') and supplied ferrite core

Accuracy (Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL (compound gauge calibrated in positive direction only)

Temperature:

Storage: -40 to 82°C (-40 to180°F) Operating: 18 to 66°C (0 to 150°F)

Temperature Corrected: Over operating temperature

Minimum Resistance Between Transducer Body and Any Wire: $100M\Omega @ 50 Vdc$

Pressure Cycles: 1 million minimum **Long Term Stability (1-yr):** ±0.1% FS typical

Thermal Effects (Over Compensated Range):

Zero Balance:

Ranges >5 psi: ±0.3% span Ranges ≤5 psi: ±0.5% span Span Setting:

Ranges >5 psi: ±0.3% span Ranges ≤5 psi: ±0.5% span

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA (external 24 Vdc power supply required)

Note: Compound gauge ranges have a unidirectional analog output equal to their full span; i.e. -15 to +15 psi = 0 to 10 Vdc.

Analog Output

Cable: 2.7 m (8.9') with ferrite core included **Accuracy:** 0.08% typical (0.15% max in RF field

@ 10V/m) **Overpressure:** Gauge and sealed gauge

10 inH₂O: 10 times span **1 psi:** 6 times span **2.5 to 3500 psi:** 4 times span **5000 psi:** 15,000 psi max

Wireless model shown, DPG409-500G-W.

New security feature uses magnetic stylus (included) for keypad activation. No accidental button presses. Perfect for dirty hands or if wearing gloves.

Absolute/Barometric Ranges

5 psia: 6 times span, ranges >5 psia 4 times span 5000 psi range: to 15,000 psia Containment Pressure: Gauge pressure

10 inH₂O to 5 psi: To 1000 psi 15 to 1000 psi: To 3000 psi

1500 to 5000 psi: To 15,000 psi Absolute/Barometric Pressure:

5 to 1000 psi: to 6000 psia **Display:** 4-digit LCD with user selectable backlighting, (9999 count) 25 mm (1") character height

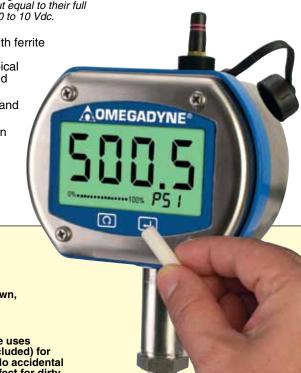
Computer Interface: USB connection for set-up, cable included

Sample/Display Range: User selectable from 0.25 to 10 sec. (preset to 1/sec)

Power: One 3.6V lithium 8.4 Ah capacity (C cell) Included (two with wireless option), (replacement battery part no. BATT-C-3V)

Battery Life (Typical): Up to 4-years Enclosure:

Material: 316 Stainless Steel and ABS center gasket Finish: Electropolished Environmental Rating: Weatherproof, NEMA 4X (IP65)



Sensor Wetted Parts:

316L Stainless Steel Pressure Connection: ¼-18 NPT male Connection Location: Lower Dimensions:

Display: 115 H x 89 W x 74 mm D (4.5 x 3.5 x 2.9") **Sensor:** 72 to 89 mm L

(2.8 x 3.5") below display

Weight: 900 g (2 lb) Typical depending upon configuration

Front Panel Functions

Backlight: Manually turns backlight on/off

Min/Max: Recalls min/max values Zero/Clear: Zeros display or clears min/max

Software Settings (via USB)

Auto-Off: 7 options, locked on, 1, 2, 5, 10, 15, 30, 60 minutes

Update Rate: 4 options, 10, 5, 2, 1 times per second

Units: psi, inHg, inH₂O, bar, mbar, hPa units must be specified at time of order **Lock:** Allows the lock-out of front panel functions

Alarms: User selectable "High" and "Low" alarm limits (open collector)

Analog Output: User Selectable 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA (requires external 24 Vdc power Backlight: On/off, 10 sec, 30 sec,

1 min, 5 min

Wireless Transmitter (Optional): Channel number, transmission rate, alarms, sensor offset, chart recording, data logging

Calibrate: Zero and Span

Overrange Indication: "

Wireless Option Specifications

Transmit Sample Rate: User programmable from 1 sample/2 min to 1 sample/2 sec

Radio Frequency (RF) Transceiver Carrier: ISM 2.4 GHz

RF Output: 10 dBm (10 mW) Range of RF Link:

Outdoors (Line of Sight): Up to 120 m (400') Indoors/Urban: Up to 40 m (130')

Included Software: Requires Windows® 7 (32 bit); XP, Vista, or Windows® 7 (32 bit)

Internal Battery: Two 3.6V lithium 8.4 Ah capacity (C-cell) included, (replacement battery part no. BATT-C-3V)

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level



PRESSURE GAUGES



Wireless Receivers (For Use with Wireless Transmitter Option)

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eless nalog ital display
eless based

* Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA.

To Order Visit	omega.com/dng409	for Pricing and Details
To Order Visit omega.com/dpg409 for Pricing and Details RANGE (RESOLUTION)		
		PSI RANGES
psi	Bar	MODEL NO.
GAUGE PRESSUR		
10.00 inH ₂ O	25.00	DPG409-10WG
1.000	70.00	DPG409-001G
2.500	175.0	DPG409-2.5G
5.000	350.0	DPG409-005G
15.00	1.000	DPG409-015G
30.00	2.100	DPG409-030G
50.00	3.400	DPG409-050G
100.0	6.900	DPG409-100G
150.0	10.30	DPG409-150G
250.0	17.20	DPG409-250G
500.0	34.50	DPG409-500G
750.0	51.70	DPG409-750G
1000	69.00	DPG409-1KG
1500	103.0	DPG409-1.5KG
2500	172.0	DPG409-2.5KG
3500	241.0	DPG409-3.5KG
5000	345.0	DPG409-5.0KG
ABSOLUTE PRES		
5.000	350.0	DPG409-005A
15.00	1.000	DPG409-015A
30.00	2.100	DPG409-030A
50.00	3.400	DPG409-050A
100.0	6.900	DPG409-100A
150.0	10.30	DPG409-150A
250.0	17.20	DPG409-250A
500.0	34.50	DPG409-500A
750.0	51.70	DPG409-750A
1000	69.00	DPG409-1KA
	IVE GAUGE, 0 psi = A	
10.00 inH ₂ O	25.00	DPG409-10WV
1.000	70.00	DPG409-001V
2.500	175.0	DPG409-2.5V
5.000	350.0	DPG409-005V
15.00	1.000	DPG409-015V
BAROMETRIC PRESSURE (ABSOLUTE PRESSURE)		
0 to 32.00 inHg	_	DPG409-32B
16.00 to 32.00 inHg	_	DPG409-16B
26.00 to 32.00 inHg	_	DPG409-26B
_	0 to 1100 hPa	DPG409-32HB
_	550.0 to 1100 hPa	DPG409-16HB
_	880.0 to 1100 hPa	DPG409-26HB
COMPOUND GAUGE PRESSURE		
±10.00 inH ₂ O	±25.00	DPG409-10WCG
±1.000	±69.00	DPG409-001CG
±2.500	±172.0	DPG409-2.5CG
±5.000	±345.0	DPG409-005CG
±15.00	±1034	DPG409-015CG

Comes complete with operator's manual, set-up and configuration software, charting and databasing software with common drivers, USB cable, 2.7 m (8.9') analog output cable with ferrite core, one 3.6V lithium C cell battery (two with wireless option), and 5-point NIST traceable calibration. To order wireless option add suffix "-W" to model number, cost additional.

To order sealed gauge models change suffix "G" to "SG", available on gauge ranges ≥100 psi, no extra charge.

Ordering Examples: DPG409-100G-W, digital pressure gauge with 100 psig range and wireless transmitter option, and UWTC-REC1, wireless USB receiver.

DPG409-015V, digital pressure gauge with 15 psi vacuum range.

DPG409-100SG, digital pressure gauge with 100 psi sealed gauge range.