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

**CE OMEGA®** 

GAUGES

G

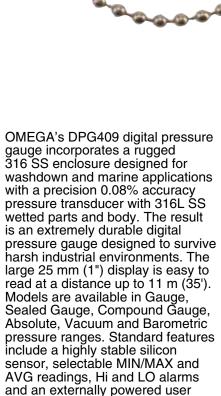
Gauge, Absolute, Sealed Gauge, Compound Gauge, Vacuum and Barometric Models 0-10 inH<sub>2</sub>0 to 0-5000 psi (0-25 mb to 0-345 bar)

# **DPG409 Series**



Magnetic stylus (included).

- 5-PT NIST Traceable Calibration Included
- ✓ Easy to Read 25 mm (1") Backlit LCD Display
- ✓ High 0.08% Accuracy
- Hi and Lo Alarms Standard
- MIN/MAX/AVG Reading
- 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
- CE Certified
- ✓ Battery Powered with Long Battery Life



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 to connect to a PC via a standard USB connection (cable included) and select a variety of user configurable features including sample interval, units and backlight.

**Note:** Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.



### SPECIFICATIONS

CE Compliant: Meets EN61326-1: 2006 for industrial locations with analog output cables less than 30 m (98')

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL (compound gauge calibrated in positive direction only)

Temperature:

**Storage:** -40 to 82°C (-40 to 180°F) **Operating**: -18 to 66°C (0 to 150°F)

Thermal Effects (Over Operating 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 Minimum Resistance Between **Transducer Body and Any Wire:** 100MΩ @ 50 Vdc

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

typical

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.

Set jumper to select current or voltage Software selection of 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA

Analog Output

**Cable:** 2.7 m (8.9') **Accuracy:** 0.08% typical Overpressure: Gauge and

sealed gauge

10 inH<sub>2</sub>O: 10 times span 1 psi: 6 times span

2.5 to 1000 psi: 4 times span

1500 to 5000 psi: 7250 psi max

Absolute/Barometric Ranges

5 psia: 6 times span,

15 to 1000 psia: 4 times span 1500 to 5000 psi range: to 7250 psia

Containment Pressure: Gauge

pressure

**10 inH<sub>2</sub>O to 5 psi:** To 1000 psi 15 to 1000 psi: To 3000 psi 1500 to 5000 psi: To 10,000 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 0.38 to 30 sec. (preset

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

Battery Life (Typical): Up to 9 months **Enclosure:** 

Material: 316 stainless steel and

ABS center gasket

Finish: Brushed 316 stainless steel

**Environmental Rating:** 

Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts: 316L stainless steel

Pressure Connection: 1/4-18 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)

**Update Rate:** 4 options, 10, 5, 2, 1

times per second

**Units:** psi, inHg, inH<sub>2</sub>O, bar, mbar, hPa units; must be specified at time of order Lock: Allows the lock-out of front panel

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

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: Úp to 40 m

Included Software: Requires Windows®

7 (32 bit); XP or Vista

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



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.

## For calibration and to setup your DPG409 device please go to

ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device. Please refer to the manual for details on setting up your device.



Wireless Receivers (For Use with
Wireless Transmitter Option)

MODEL NO.	DESCRIPTION
UWTC-REC1	48-channel wireless receiver, USB powered
UWTC-REC2-(*)	48-channel wireless receiver with analog output
UWTC-REC2-D-(*)	48-channel wireless receiver with analog output and digital display

<sup>\*</sup> 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			
RANGE (RE	SOLUTION)		
psi	Bar	PSI RANGES	
•	•	MODEL NO.	
GAUGE PRESSURE			
0 to 10.00 inH <sub>2</sub> O	0 to 25 mbar	DPG409-10WG DPG409-001G	
0 to 1.000 0 to 2.500	0 to 70 mbar 0 to 175 mbar	DPG409-001G DPG409-2.5G	
0 to 5.000	0 to 350 mbar	DPG409-2.5G DPG409-005G	
0 to 15.00	0 to 350 ffibar	DPG409-005G DPG409-015G	
0 to 30.00	0 to 1	DPG409-030G	
0 to 50.00	0 to 3.5	DPG409-050G DPG409-050G	
0 to 100.0	0 to 3.5	DPG409-100G	
0 to 150.0	0 to 10	DPG409-100G DPG409-150G	
0 to 250.0	0 to 17	DPG409-150G DPG409-250G	
0 to 500.0	0 to 17	DPG409-250G DPG409-500G	
0 to 750.0	0 to 52		
0 to 1000	0 to 70	DPG409-750G DPG409-1KG	
0 to 1000	0 to 100		
	0 to 100	DPG409-1.5KG	
0 to 2500	0 to 170	DPG409-2.5KG	
0 to 3500		DPG409-3.5KG	
0 to 5000 ABSOLUTE PRESS	0 to 345	DPG409-5.0KG	
0 to 5.000	0 to 350 mbar	DPG409-005A	
0 to 15.00 0 to 30.00	0 to 1	DPG409-015A	
	0 to 2	DPG409-030A	
0 to 50.00 0 to 100.0	0 to 3.5 0 to 7	DPG409-050A DPG409-100A	
0 to 150.0	0 to 10	DPG409-100A DPG409-150A	
0 to 250.0	0 to 17		
0 to 500.0	0 to 35	DPG409-250A	
0 to 750.0	0 to 52	DPG409-500A DPG409-750A	
0 to 1000	0 to 70		
	VE GAUGE, (ZERO C	DPG409-1KA	
	· •		
0 to 10.00 inH <sub>2</sub> O	0 to 25 mbar	DPG409-10WV	
0 to 1.000	0 to 70 mbar	DPG409-001V	
0 to 2.500	0 to 175 mbar	DPG409-2.5V	
0 to 5.000	0 to 350 mbar	DPG409-005V	
0 to 15.00	0 to 1 bar	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 to 1100 hPa	DPG409-16HB	
-	880 to 1100 hPa	DPG409-26HB	
COMPOUND GAUGE PRESSURE			
±10.00 inH <sub>2</sub> O	±25.00 mbar	DPG409-10WCG	
±1.000	±69.00 mbar	DPG409-001CG	
±2.500	±172.0 mbar	DPG409-2.5CG	
±5.000	±345.0 mbar	DPG409-005CG	
±15.00	±1 bar	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, 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, for additional cost.

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.

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

# **X-ON Electronics**

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DPG409-100DWU OM-DAQXL-1-NA CASS-116U-12 DH-1-20-J-12 GG-J-24-SLE-1000 HPC-AU-P HPC-IR-P JMQSS-062U-6 KHSS-18G-RSC-12 KHXL-18G-RSC-12 KMQIN-125U-6 KMQXL-125G-12 KMQXL-125U-6 KQSS-18G-6 KQXL-14U-36 KQXL-18G-12 KQXL-18U-12 NB1-CAXL-14U-12 NB3-CAXL-14U-18 P-M-1/10-1/4-6-0-P-3 PX309-015A5V PX309-1KGI PX309-10KGV PX309-100AI PX309-100AV PX309-100GV PX309-3KG5V PX319-V050G5V PX319-005AI PX319-050A5V PX319-050GI PX319-10KGI PX319-10GV PX319-200AV PX319-200AV PX319-200A5V PX319-300G5V PX319-5KG5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-500G5V PX319-300G5V PX319