PRESSURE G

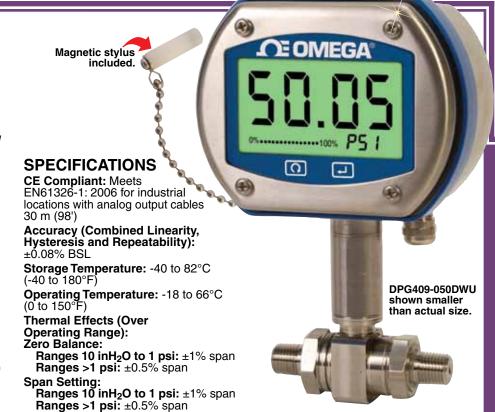
Uni-Directional Ranges 0-10 inH₂O to 0-1000 psi (0-25 mb to 0-70 bar)

DPG409 Differential Pressure Series



- ✓ Wet/Wet Differential Pressure Measurement
- ✓ 5-Point 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
- ✓ Wireless Transmitter Option Sends Reading to **Remote Location and Includes Charting and Data Logging Software**
- CE Certified
- Battery Powered with **Long Battery Life**
- ✓ NEMA 4X (IP65) Enclosure

OMEGA's DPG409 digital differential pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer and 316L S wetted parts and body. The result is an extremely durable digital pressure gauge. You get all the durability and stability of the micromachined silicon sensor in a rugged NEMA 4X (IP65) package.



Battery Life (Typical): Up to 9 months Enclosure Material: 316 Stainless Steel and ABS center gasket

Enclosure Finish: Brushed 316 stainless steel

Enclosure Environmental Rating: Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts: 316L

stainless steel

Pressure Connection: ¼-18 NPT male **Dimensions:**

Display: 115 D x 89 W x 74 H mm (4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 to 3.5")

below display, 80 mm (3.1") wide Weight: 1 kg (2.2 lb) Typical depending

upon configuration

Front Panel Functions

Backlight: Manually turns backlight

on/off

Min/Max: Recalls minimum/

maximum values

Zero/Clear: Zeros display or clears

minimum/maximum

Software Settings (via USB)

(USB connection is for set-up only) **Note:** Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

Power: One 3.6V lithium 8.4 Ah capacity (C cell) included (two included with wireless option) (replacement battery model no. BÁTT-C-3.6V)

Minimum Resistance Between

Pressure Cycles: 1 million min

5 Vdc, 0 to 10 Vdc or 4 to 20 mA

Note: Analog output is independently

Software selection of 0 to 5 Vdc,

0 to 10 Vdc, or 4 to 20 mA Analog Output Cable: 2.7 m (9')

Proof Pressure (Differential):

10 in $H_2O = 10$ times range

1 psi = 6 times range **2.5 to 750 psi** = 4 times range

Hi-Side Containment Pressure (Differential): 10 inH₂O to 5 psi: To 1000 psi

15 to 1000 psi: To 3000 psi

25 mm (1') character height

for set-up, cable included

Display: 4-digit LCD with user

1000 psi Range = 3 times range

selectable backlighting, (9999 count)

from 0.38 to 30 sec (preset to 1/sec)

Sample/Display Rate: User selectable

Computer Interface: USB connection

Analog Output Accuracy:

100M Ω @ 50 Vdc

FS typical

scalable

0.08% typical

Transducer Body and Any Wire:

Long Term Stability (1-Yr.): ±0.1%

Analog Output: User selectable 0 to

(external 24 Vdc power supply required)

Set jumper to select current or voltage.

Line/Static Pressure: 500 psi maximum applied to both sides simultaneouly

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.



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)

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

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: Up to 120 m (400')

outdoors (line of sight); Up to 40 m (130') indoors/urban Included Software: Requires Windows® 7 (32 bit); XP, Vista

DPG409-1KDWU-W

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

To Order			
RANGE/			
RESOLUTION		MODEL NO.	
psi	BAR	1/4 NPT MALE THREAD	
WET/WET UNI-DIRECTIONAL DIFFERENTIAL PRESSURE MODELS			
0 to 10.00 inH ₂ O	0 to 25 mbar	DPG409-10WDWU	
0 to 1.000 psi	0 to 70 mbar	DPG409-001DWU	
0 to 2.500	0 to 170 mbar	DPG409-2.5DWU	
0 to 5.000	0 to 350 mbar	DPG409-005DWU	
0 to 15.00	0 to 1	DPG409-015DWU	
0 to 30.00	0 to 2	DPG409-030DWU	
0 to 50.00	0 to 3.5	DPG409-050DWU	
0 to 100.0	0 to 7	DPG409-100DWU	
0 to 150.0	0 to 10	DPG409-150DWU	
0 to 250.0	0 to 17.5	DPG409-250DWU	
0 to 500.0	0 to 35	DPG409-500DWU	
0 to 750.0	0 to 50	DPG409-750DWU	
0 to 1000	0 to 70	DPG409-1KDWU	
		RENTIAL PRESSURE MODELS	
WITH WIRELESS T			
0 to 10.00 inH ₂ O	0 to 25 mbar	DPG409-10WDWU-W	
0 to 1.000 psi	0 to 70 mbar	DPG409-001DWU-W	
0 to 2.500	0 to 170 mbar	DPG409-2.5DWU-W	
0 to 5.000	0 to 350 mbar	DPG409-005DWU-W	
0 to 15.00	0 to 1	DPG409-015DWU-W	
0 to 30.00	0 to 2	DPG409-030DWU-W	
0 to 50.00	0 to 3.5	DPG409-050DWU-W	
0 to 100.0	0 to 7	DPG409-100DWU-W	
0 to 150.0	0 to 10	DPG409-150DWU-W	
0 to 250.0	0 to 17.5	DPG409-250DWU-W	
0 to 500.0	0 to 35	DPG409-500DWU-W	
0 to 750.0	0 to 50	DPG409-750DWU-W	

0 to 70

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	
* Specify analog output signal: "V1" for 0 to 5 Vdc.		

^{*} 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.

Comes complete with operator's manual, one 3.6V lithium C cell battery (two with wireless option), set-up and configuration software (charting and databasing software with common drivers) USB cable, 2.7 m (9') analog output cable and 5-point NIST traceable calibration cartificate

To order wireless option add suffix "-W" to model number for additional cost.

Ordering Examples: DPG409-015DWU, 0 to 15 psi uni-directional differential pressure gauge with analog output. **DPG409-100DWU-W,** 0 to 100 psi uni-directional differential pressure gauge with analog output and wireless transmitter.

0 to 1000