

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



PRESSURE
GAUGES
G

DPG409 Series

Gage, Absolute, Sealed Gage,
Compound Gage, Vacuum and
Barometric Models
0-10 inH₂O to 0-5000 psi
(0-25 mb to 0-345 bar)

Starts at
\$695



Analog Output
Standard, **Wireless**
Transmitter
Optional



Antenna connection
for wireless option.

Magnetic
stylus
(included).

NEMA 4X case.

DPG409-500G, \$695,
shown smaller than
actual size.

Standard integral
pressure sensor.

Fast Delivery -
Typically Stock to
2-Weeks!

- ✓ 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
- ✓ Data Logging and Charting Software Included
- ✓ 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 datalogging. Power is from an internal long life battery (included) or an eternally 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, dampening, units, backlight and auto off.



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): $\pm 0.08\%$ 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)

Temperature Corrected: Over operating temperature

Minimum Resistance Between Transducer Body and Any Wire: 100M Ω @ 50 Vdc

Pressure Cycles: 1 million minimum

Long Term Stability (1-yr): $\pm 0.1\%$ FS typical

Thermal Effects (Over Compensated Range):

Zero Balance:

Ranges >5 psi: $\pm 0.3\%$ span

Ranges ≤ 5 psi: $\pm 0.5\%$ span

Span Setting:

Ranges >5 psi: $\pm 0.3\%$ span

Ranges ≤ 5 psi: $\pm 0.5\%$ 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

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)

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: G $\frac{1}{4}$ -18 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, ftH₂O, bar, mbar, kPa, MPa, mmHg, cmH₂O, mmH₂O/kg/cm² 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

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

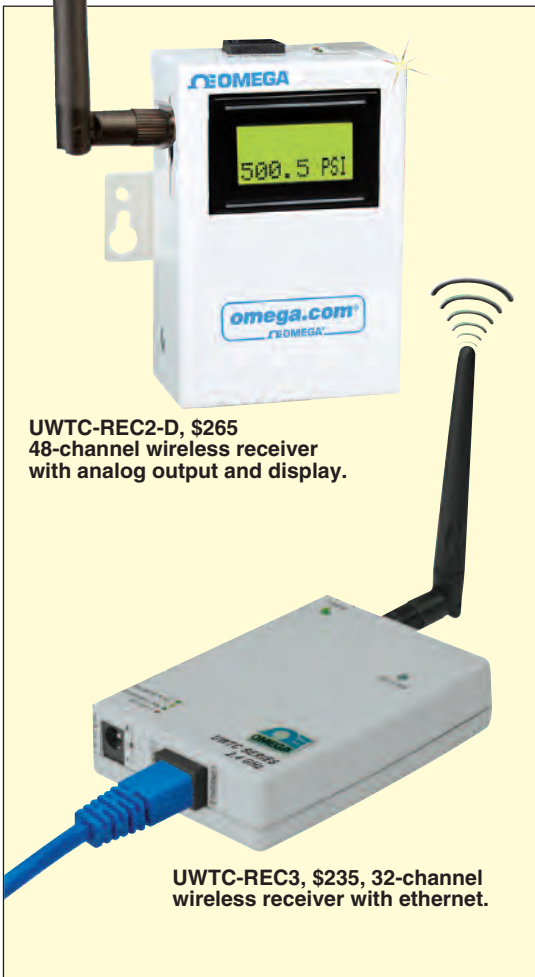


New security feature uses magnetic stylus (included) for keypad activation. No accidental button presses. Perfect for dirty hands or if wearing gloves.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

RANGE (RESOLUTION)		PSI RANGES MODEL NO.	PRICE
psi	Bar		
GAUGE PRESSURE			
10.00 inH ₂ O	25.00	DPG409-10WG	\$745
1.000	70.00	DPG409-001G	745
2.500	175.0	DPG409-2.5G	745
5.000	350.0	DPG409-005G	695
15.00	1.000	DPG409-015G	695
30.00	2.100	DPG409-030G	695
50.00	3.400	DPG409-050G	695
100.0	6.900	DPG409-100G	695
150.0	10.30	DPG409-150G	695
250.0	17.20	DPG409-250G	695
500.0	34.50	DPG409-500G	695
750.0	51.70	DPG409-750G	695
1000	69.00	DPG409-1KG	695
1500	103.0	DPG409-1.5KG	695
2500	172.0	DPG409-2.5KG	695
3500	241.0	DPG409-3.5KG	695
5000	345.0	DPG409-5.0KG	695
ABSOLUTE PRESSURE			
5.000	350.0	DPG409-005A	\$745
15.00	1.000	DPG409-015A	745
30.00	2.100	DPG409-030A	745
50.00	3.400	DPG409-050A	745
100.0	6.900	DPG409-100A	745
150.0	10.30	DPG409-150A	745
250.0	17.20	DPG409-250A	745
500.0	34.50	DPG409-500A	745
750.0	51.70	DPG409-750A	745
1000	69.00	DPG409-1KA	745
VACUUM (NEGATIVE GAUGE, 0 psi = AMBIENT)			
10.00 inH ₂ O	25.00	DPG409-10WV	\$820
1.000	70.00	DPG409-001V	820
2.500	175.0	DPG409-2.5V	820
5.000	350.0	DPG409-005V	770
15.00	1.000	DPG409-015V	770
BAROMETRIC PRESSURE (ABSOLUTE PRESSURE)			
0 to 32.00 inHg	-	DPG409-32B	\$845
16.00 to 32.00 inHg	-	DPG409-16B	845
26.00 to 32.00 inHg	-	DPG409-26B	845
-	0 to 1100 hPa	DPG409-32HB	845
-	550.0 to 1100 hPa	DPG409-16HB	845
-	880.0 to 1100 hPa	DPG409-26HB	895
COMPOUND GAUGE PRESSURE			
±10.00 inH ₂ O	±25.00	DPG409-10WCG	\$845
±1.000	±69.00	DPG409-001CG	845
±2.500	±172.0	DPG409-2.5CG	845
±5.000	±345.0	DPG409-005CG	795
±15.00	±1034	DPG409-015CG	795



UWTC-REC2-D, \$265
48-channel wireless receiver with analog output and display.

UWTC-REC3, \$235, 32-channel
wireless receiver with ethernet.

Wireless Receivers (For Use with Wireless Transmitter Option)

MODEL NO.	PRICE	DESCRIPTION
UWTC-REC1	\$225	48-channel wireless receiver, USB powered
UWTC-REC2-(*)	235	48-channel wireless receiver with analog output
UWTC-REC2-D-(*)	265	48-channel wireless receiver with analog output and digital display
UWTC-REC3	235	32-channel wireless ethernet web based receiver

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, and 5-point NIST traceable calibration.

To order wireless option add suffix "-W" to model number, add \$100.

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 gage with 100 psig range and wireless transmitter option, UWTC-REC1, wireless USB receiver, \$695 + 100 + 225 = \$1020.

DPG409-015V, digital pressure gage with 15 psi vacuum range, \$770.

DPG409-100SG, digital pressure gage with 100 psi sealed gauge range, \$695.



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters