

# **PRESSURE CALIBRATION KIT WITH 0.05% DIGITAL PRESSURE GAUGE AND HAND PUMP**

## **DPG4000-KIT**

Starts at  
**\$1465**



- ✓ RS232 Digital Communications Standard
- ✓ Pump and Hose Included
- ✓ Very High Accuracy:  $\pm 0.05\%$  FS
- ✓ Temperature Compensated: 0 to 50°C (32 to 122°F)
- ✓ Displays in 18 Standard or Custom Engineering Units
- ✓ Displays Ambient Temperature in °C or °F
- ✓ Large, Backlit, 5-Digit Display with 16.5 mm (0.65") High Digits and 20-Segment Bar Graph
- ✓ Rugged Stainless Steel Case With NEMA 4 (IP65) Rating
- ✓ Min/Max Recall
- ✓ Adjustable Tare Zeros Large System Offsets

OMEGA's pressure calibration kits combine the high accuracy of DPG4000 Series digital pressure gauges with a pneumatic or hydraulic hand pump, providing an excellent solution for field calibration needs.

Kits include the DPG4000 digital gauge, hand pump, rugged carrying case, and a selection of fittings and hoses. Kits with ranges of 500 psi or below include a pneumatic hand pump (PPA500) capable of generating 0 to 500 psi pressure or 0 to 28 inches of mercury vacuum. For ranges of 1000 psi or higher, a 0 to 10,000 psi hydraulic pump (PPH10K) is included.



DPG4000-30-KIT, \$1465, shown smaller than actual size.

The DPG4000 takes the concept of a test gauge to a new level. It combines the accuracy of digital technology with the simplicity of an analog gauge, delivering performance, ease of use, and a feature set unmatched in the pressure measurement world. Setup of the DPG4000 is fast and

straightforward, involving a menu-driven display with minimal text and intuitive functions. The gauge is simple enough to be used anywhere in the world, without the need for multilingual displays.

See pages G-23 to G-24 for complete specifications on DPG4000 Series.

# PRESSURE CALIBRATION KIT

## GAUGE SPECIFICATIONS (0 to 50°C Unless Otherwise Noted)

**Accuracy:** ±0.05% FS positive pressure, ±0.1% FS for compound models

**Temperature Compensation:** 0 to 50°C (32 to 122°F) to rated accuracy

**Proof/Burst Pressure:** See table ranges and resolutions for DPG4000, page G-24

**Note:** DPG4000 positive pressure ranges up to and including 100 psig should not be used for vacuum measurements. Vacuum of -5 psig will cause permanent damage to the sensor on low-pressure models. Compound ranges can be used to measure vacuum and 300 and 500 psi models can be used in vacuum without damage

**Standard Engineering Units:** psi, bar, kg/cm<sup>2</sup>, inH<sub>2</sub>O (4°C, 20°C or 60°F), ftH<sub>2</sub>O (4°C, 20°C or 60°F), cmH<sub>2</sub>O (4°C and 20°C), mH<sub>2</sub>O (4°C and 20°C), kPa, mbar, inHg, mmHg, torr

**Media Compatibility:** Liquids and gases compatible with 316 SS

**Operating Temperature:** -10 to 55°C (14 to 131°F)

**Storage Temperature:** -20 to 70°C (-4 to 158°F)

**Dimensions:** 111 H x 127 W x 38 mm D (4.375 x 5 x 1.50")

**Input Port:** ¼ MNPT lower mount

**Display:** 5-digits, 16.5 mm (0.65") high

**Bar Graph:** 0 to 100% in 20 segments

**Power:** 3 "AA" alkaline batteries (included)

**Battery Life:** 1500 hr without backlight (2000 hr at slow sample rate)

**Low-Battery Indicator:** Icon displayed near the end of battery life; remaining battery life can also be displayed on bar graph

## PUMP SPECIFICATIONS

### Pneumatic Hand Pump (PPA500)

**Working Media:** Air

**Hose:** Included with ¼ MNPT fitting, 1 m (3')

### Hydraulic Hand Pump (PPH10K)

**Working Media:** Distilled water preferred, light oils, like mineral oil can be used, avoid viscous oils, like motor oil

**Hose:** Included with ¼ MNPT fitting, 1 m (3')

**Wetted Parts:** Aluminum, polycarbonate, FKM

**Kit includes gauge, hand pump, carrying case and hose.**

DPG4000-30-KIT, \$1465, shown smaller than actual size.



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

MODEL NO.	PRICE	RANGE	HAND PUMP
<b>CALIBRATION KITS WITH GAUGE, HAND PUMP, CARRYING CASE AND HOSE</b>			
DPG4000-15-KIT	\$1465	0 to 15 psi	Pneumatic
DPG4000-30-KIT	1465	0 to 30 psi	Pneumatic
DPG4000-100-KIT	1465	0 to 100 psi	Pneumatic
DPG4000-300-KIT	1465	0 to 300 psi	Pneumatic
DPG4000-500-KIT	1465	0 to 500 psi	Pneumatic
DPG4000-1K-KIT	1675	0 to 1000 psi	Hydraulic
DPG4000-2K-KIT	1675	0 to 2000 psi	Hydraulic
DPG4000-3K-KIT	1675	0 to 3000 psi	Hydraulic
DPG4000-5K-KIT	1675	0 to 5000 psi	Hydraulic
DPG4000-10K-KIT	1675	0 to 10,000 psi	Hydraulic
<b>COMPOUND CALIBRATION KITS WITH GAUGE, HAND PUMP, CARRYING CASE AND HOSE</b>			
DPG4000-15C-KIT	\$1465	±15 psi	Pneumatic
DPG4000-30C-KIT	1465	±30 psi	Pneumatic

**Note:** Digital gauges come with 3 "AA" batteries, operator's manual and NIST-traceable calibration certificate.

**Ordering Examples:** DPG4000-100-KIT, 0.05% accuracy pressure calibration kit, including DPG4000 (0 to 100 psig range) and pneumatic pump, \$1465.

DPG4000-1K-KIT, 0.05% accuracy pressure calibration kit, including DPG4000 (0 to 1000 psig range) and hydraulic pump, \$1675.

## ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
DPG4000-RB	\$25	Protective rubber boot
DPG4000-C32	30	RS232 cable

Recommended Reference Book:  
Temperature, Press,  
and Air Flow Measurement  
**OP-6, \$265**



See Section Y For Additional Books

A

PRESSURE INSTRUMENTS



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



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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

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

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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

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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