

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

DPG4000-KIT



- ✓ 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 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.

For complete specifications on DPG4000 Series: visit omega.com

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: For ranges and resolutions for DPG4000, omega.com

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/cm², inH₂O (4°C, 20°C or 60°F), ftH₂O (4°C, 20°C or 60°F), cmH₂O (4°C and 20°C), mH₂O (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 shown smaller than actual size.



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PRESSURE INSTRUMENTS

To Order

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

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

ACCESSORIES

MODEL NO.	DESCRIPTION
DPG4000-RB	Protective rubber boot
DPG4000-C32	RS232 cable