

PORTABLE PRESSURE CALIBRATORS WITH INTERNAL PRESSURE SOURCE



PCL-5000A shown smaller than actual size.

PCL-5000 Series 20 to 2000 psi Models



Standard

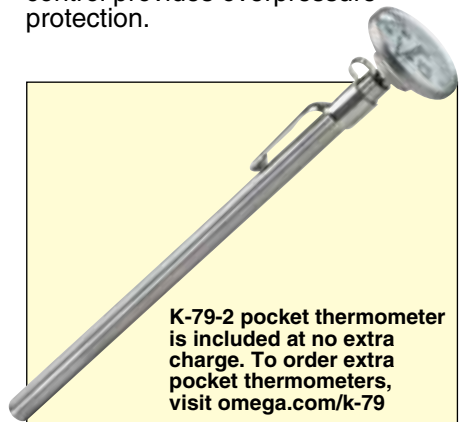
- ✓ 0.05% FS Accuracy
- ✓ Gage and Absolute Pressure Ranges
- ✓ Portable and Lightweight
- ✓ NIST Certificate Provided
- ✓ Hoses, Fittings, Connectors Included
- ✓ Voltage/Current Display Mode for Transducer Testing
- ✓ Overpressure Protection



For rapid on-site calibration of transducers, transmitters, gages, and many other pressure-sensitive devices, OMEGA® PCL-5000 Series portable pressure calibrators provide high accuracy, reliability, and pushbutton operation.

The PCL-5000 covers the higher pressure ranges (20 to 2000 psi) with a self-contained 2000 psi nitrogen cylinder. Its pressure modes—gage or absolute—are switch selectable. An extremely accurate instrument ($\pm 0.05\%$ FS), the PCL-5000 comes with quick-disconnect fittings and hoses for input and output pressure.

The PCL-5100, a low-pressure unit with ranges from 30 inHg to 100 psi, offers 5 independent selectable ranges. Designed for field use, this rugged calibrator weighs less than 25 lb and has its own built-in pressure and vacuum source. For immediate on-site use, it comes with with hose and couplings. Its internal microcircuitry automatically maintains zero and span calibration data to ensure long-term stability and accuracy. A pressure limit control provides overpressure protection.



K-79-2 pocket thermometer is included at no extra charge. To order extra pocket thermometers, visit omega.com/k-79

0.05% ACCURACY, 30 inH₂O to 2000 psi RECHARGEABLE BATTERIES—STANDARD



A

PRESSURE INSTRUMENTS

SPECIFICATIONS

Overall Accuracy: ±0.05% FS max; accuracy statement includes all effects of linearity, hysteresis, repeatability and ambient temperature

Operating Temperature: 5 to 43°C (41 to 109°F)

Internal Pressure Cylinder:

Capacity: 9.0 standard cubic feet

Volume: 80 cubic inches

Rating: 2015 psi

Overpressure Rupture Disk Rating: 3000 psig, nominal

Pressure Media Filter:

Rating: 7 microns, nominal

Type: Field-replaceable filter cartridge

Control Valves: Micrometering with positive shut-off, adjustable stop and replaceable seat; non-destructible.

Fill and Test Ports:

Rating: 3000 psig, min (connected or disconnected)

Type: Quick-disconnect

Pressure Hoses: 2 (1 input, 1 output) 1.5 m (5'), nominal each

Built-In Carrying Case: Rugged aluminum case with sealed cover and carrying handle

Weight: 11 kg (24 lb) (including all hoses and cables)

Dimensions: 250 W x 410 L x 290 mm D (10 x 16 x 11.5")

To Order

MODEL NO.	TYPE	RANGES	RESOLUTION
PCL-5000A	psig and psia	2000/1000/400	0.5/0.2/0.05
PCL-5000B	psig and psia	1000/500/200	0.2/0.1/0.05
PCL-5000C	psig and psia	500/250/100	0.1/0.05/0.002
PCL-5000D	psig	100/50/20	0.02/0.01/0.005
PCL-5000DB	psia	100/50/20	0.02/0.01/0.005
PCL-5100	5 ranges: ±30 inHg to 100 psi		0.5/0.1/0.01

OPTION

SUFFIX	DESCRIPTION
-2	Second scale, inH ₂ O, on PCL-5000D and PCL-5000DB

ACCESSORY

MODEL NO.	DESCRIPTION
K-79-2	Extra pocket thermometer, -40 to 160°F range

Comes complete with hoses, couplings, K-79-2 pocket thermometer, NIST traceable calibration certificate, and operator's manual.

Ordering Examples: PCL-5000D-2, 100/50/20 psig range calibrator with second scale option. PCL-5100, 5 range, ±30 inHg to 100 psi calibrator.