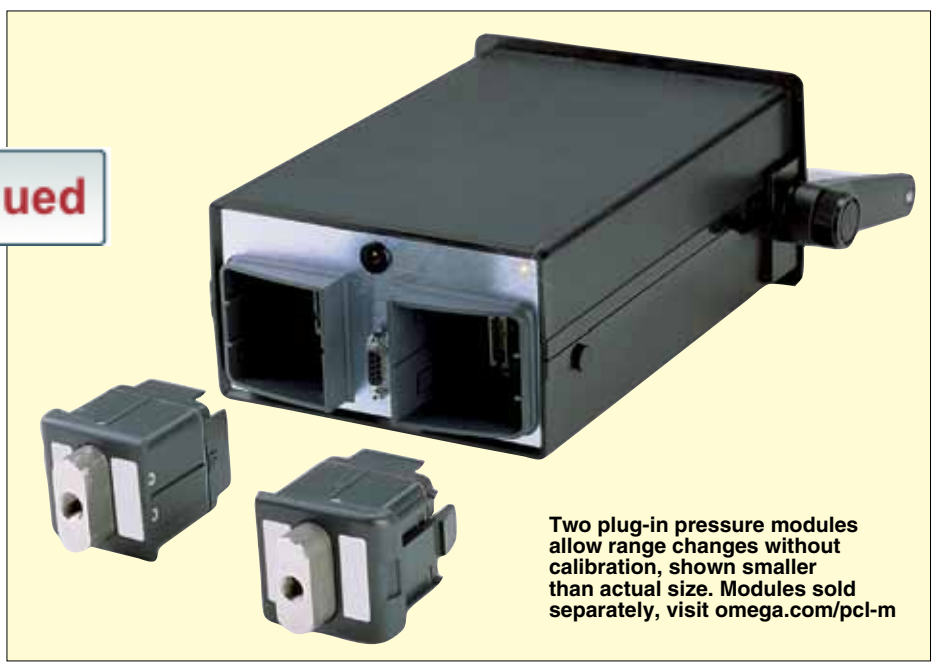
BENCHTOP PRESSURE STANDARDS
WITH INTERCHANGEABLE RANGE MODULES

Data Logging and Hi/Lo Programmable Relays Standard

PCL-2A, with 2 pressure modules, PCL-MB-010G, and PCL-MB-1KG.

PCL-2A Series

Product Discontinued



Two plug-in pressure modules allow range changes without calibration, shown smaller than actual size. Modules sold separately, visit omega.com/pcl-m

- **Interchangable Pressure Modules Available for Ranges from 0.25 inH_2O to 7500 psi**
- **Large Display Indicates Dual Readings Simultaneously**
- **Accurate to 0.06% FS**

The PCL-2A is the perfect companion product to OMEGAs PCL-1B handheld calibrator. For the ultimate in measurement flexibility, this benchtop or panel mount unit uses the same PCL-M pressure modules as the PCL-1B (for details, visit omega.com/pcl-m).

An intuitive menu-driven user interface puts all of the PCL-2A power at the simple press of a key. It uses PCL-M plug-in modules to provide the ultimate in measurement flexibility.

Now you can purchase a calibration system to serve your field and bench mounting requirements while enjoying the significant cost savings gained through the availability of commom pressure modules and software.

BENCHTOP PRESSURE CALIBRATORS

Standard Features

- Measurement of pressure, temperature, voltage and current
- Two-channel—simultaneous measurement and display of pressure, temperature, voltage or current in any combination
- Accuracy ratings of to 0.05% FS (pressure)
- Pressure ranges from 0.25 inH_2O to 7500 psi
- Multiple engineering units—12 factory-programmed plus 1 user-programmable engineering unit
- Programmable damping
- Tare capability
- Display hold
- RS232 two-way communications
- Standard NIST-traceable certificate of calibration
- Data logging—automatic, manual and delayed actuation (user programmable)
- Relays—Hi/lo programmable configurations—N/O and N/C

Optional Features

- Supplies 24 Vdc to power transmitters, transducers, switches
- High-static differential pressure measurement with dual sensor
- Battery power—5 “AA” Ni-Cads with built-in charger (included)

Application Capabilities

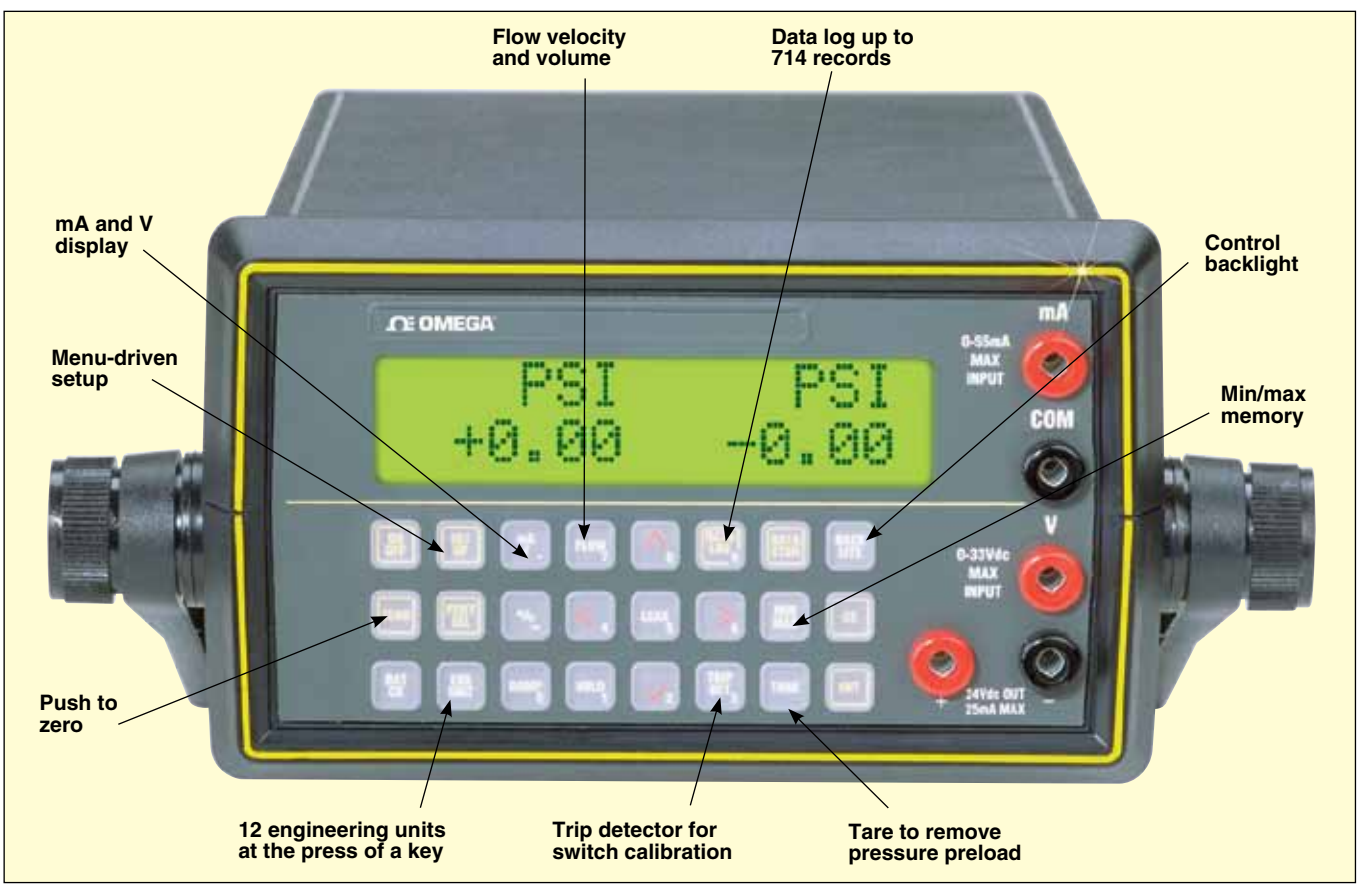
- Switch testing, including trip, reset and deadband
- Leak detection in either leak rate or pressure decay modes
- Flow velocity and volume measurement using standard pitot tubes and anubars
- Automatic % error calculation simplifies transmitter or transducer calibration
- Valve test and set using the minimum/maximum tracking feature

To Order	
MODEL NO.	**DESCRIPTION**
PCL-2A	Base unit, including data logging, high and low alarm relays and backlit display (requires 1 or more plug-in pressure modules, visit **omega.com/pcl-m**

ORDER SUFFIX	DESCRIPTION
-B	Rechargeable Ni-Cad batteries
-E	Built-in 24 Vdc loop power supply

Comes complete with calibration certificate and operator’s manual.

Ordering Example: PCL-2A-B,** benchtop pressure calibrator with Ni-Cad battery option, **PCL-MA-100BWC,** ±100 inH_2O, and **PCL-MB-030G,** 0 to 30 psig plug-in pressure module. For modules visit **omega.com/pcl-m



BENCHTOP PRESSURE CALIBRATORS

PCL-2A

SPECIFICATIONS

Physical

Dimensions: 102 H x 171 W x 277 mm D (4.00 x 6.74 x 10.9")

Panel Cutout: 90 H x 167 mm W (3.53 x 6.56")

Weight: 9.0 kg (4.08 lb) with 2 modules maximum

Case: High impact ABS

Sensor Module Capacity: 2 bays for PCL-M series plug-in modules

Display: Backlit 2 line LCD, 0.94 mm (0.037") height per line; display of two plug-in modules simultaneously

Electrical Connection: Standard banana jacks

Calibration: Both plug-in modules and electronics base unit may be field calibrated

Operating

Operating Ambient: 0 to 49°C (32 to 120°F)

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

Update Rate: 130 ms nominal, with one sensor installed

Resolution: ±0.002% span, 60,000 count maximum

Warm-Up: 5 m for rated accuracy

Serial Interface: RS232, baud rates of 300/1200/2400/9600

Power: 110 Vac; optional NiCad batteries with built-in charger (or 5 "AA" alkaline batteries, non-rechargeable)

Battery Life: Up to 20 hr with no backlight, 2 hr with backlight on

Data Logging: Manual or automatic; store up to 715 measured values for upload to PC (utility software included)

High-Low Relay: Programmable setpoints for activation of alarms or control valves

Voltage/Current Input

Input Range	Accuracy
0 to 10 Vdc	±0.025% FS
0 to 30 Vdc	±0.10% FS
0 to 20 mA	±0.03% FS
0 to 50 mA	±0.05% FS

Temperature Effect: ±0.0005% span per °C (0.001% span per °F) over compensated range

PCL-M PLUG-IN MODULES

*Visit **omega.com/pcl-m** for ranges and specifications and ordering information*

Gage/Differential/Compound Pressure Modules

Input Ranges: 0.25 to 200 inH_2O gage; ±0.125 to ±100 inH_2O differential; non-isolated, for clean, dry, non-conductive, non-corrosive gases

Accuracy: ±0.07% span (ranges below 2 inH_2O); ±0.06% span (2 to 200 inH_2O ranges)

Media: Clean, dry, non-conductive, non-corrosive gas

Under/Overpressure: -15 to 50 psi

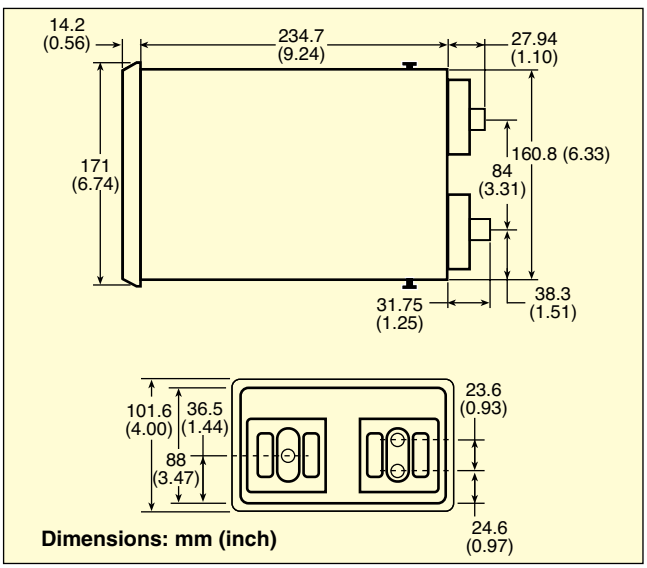
Max Static (Line) Pressure: 100 psi

Gage/Absolute/Vacuum/Differential Pressure Modules

Input Ranges: 5 to 7500 psig or psia; 5 to 15 psi vacuum; ±5 to ±15, -15 to 30 or -15 to 60 psi compound

Accuracy: 0.05% span (0.1% for 10k psi range)

Media: Any medium compatible with 316 SS isolation; 5 psi modules are non-isolated, for clean, dry, non-conductive, non-corrosive gases only



Dimensions: mm (inch)

Overpressure: 200% for ranges up to 1000 psi; 150% for ranges over 1000 psi

MODULE COMMON SPECIFICATIONS

Engineering Units: psi, inHg, inWC, ftSW, bar, mbar, kPa, mPa, mmHg, cmWC, mmWC, kg/cm² and any single user-defined, field-programmable engineering unit

Damping (Measurement Averaging): Programmable, averaging from zero through 16 consecutive readings

Compensated Temperature Range: -6 to 49°C (20 to 120°F)

Reference Temperature: 21±2°C (70±3°F)

Temperature Effect: ±0.002% per °C (0.004% per °F) over compensated range

Repeatability: ±0.01% span (ranges above 0.5 inH_2O); ±0.02% span (ranges below 1 inH_2O)

Sensitivity: ±0.002% span, typical

Process Connection: ⅛ FNPT

Thermocouple and RTD Modules Available for Temperature Calibration.

Visit us online.