

# HIGH-ACCURACY MULTIFUNCTIONAL CALIBRATOR WITH RS232 INTERFACE



**PCL1000**

- ✓ Read/Source Thermocouple, RTD, Thermistor, Voltage and Current
- ✓ High Accuracy:  $\pm 0.4^{\circ}\text{C}$  T/C,  $\pm 0.3^{\circ}\text{C}$  RTD,  $\pm 0.015\%$  rdg Electrical, 0.25% FS Pressure
- ✓ 24 Optional External Pressure Modules for Ranges from 5 to 5000 psig
- ✓ Direct Keyboard Entry Enables Quick Output Changes
- ✓ Store Up to 9 Setpoints for Each Output
- ✓ RS232\* Interface Standard

The PCL1000 combines the functions of a high accuracy calibrator with the common multimeter; this single instrument will calibrate virtually any process device—read and source thermocouples, RTDs, resistance, voltage, current, frequency, pressure and test continuity as well. Optional PCL-PM external pressure modules (one PCL-PMA is required, sold separately) are available in ranges from 5 to 5000 psig, as well as vacuum, absolute compound and differential pressures.

## SPECIFICATIONS

**Pressure Ranges:** See PCL-PM series, visit [omega.com/pcl\\_pm](http://omega.com/pcl_pm)

**Thermocouple:** J, K, T, E, R, S, N, B, L, U

**RTD:** Pt 385 (100, 200, 500, 1 k $\Omega$ )

**Pt 392:** JIS, Ni120, Cu10

**Thermistor:** Series 400

**Resistance:** 0 to 400.00 and 400 to 3200  $\Omega$

**Voltage:**

**Low:** 0 to 20.000 Vdc; read and source

**High:** 0 to 250 Vdc or Vac; read only

**Current:** 0 to 24.000 mA

**Frequency:**

**CPM:** Source 2 to 1000.0; measure 0 to 1000.0

**HZ:** Source 0 to 1000; measure 0 to 1000.0

**KHz:** Source 1 to 10.0; measure 0 to 10.00

Protective rubber boot included.



PCL1000

**Continuity:** 0 to 400.0  $\Omega$ ; audible tone under 10  $\Omega$

**Accuracy:**

**T/C Type J:**  $\pm 0.3^{\circ}\text{C} \pm 10 \mu\text{V}$   
( $\pm 0.4^{\circ}\text{C}$  total)

**RTD Pt100:**  $\pm 0.1^{\circ}\text{C} \pm 0.075 \Omega$   
( $\pm 0.3^{\circ}\text{C}$  total)

**400  $\Omega$ :**  $\pm 0.1 \Omega$

**3200  $\Omega$ :**  $\pm 1.0 \Omega$

**mA Compliance:** Up to 1000  $\Omega$  load

**Voltage Drive:** 1 mA

**RTD IEX Range:** 0.01 to 3 mA

**RTD Frequency Response:** 10 ms

**Power:** 4 "AA" batteries (included)

**Battery Life:** 25 hrs, typical

**Dimensions:** 221 H x 107 W x 58 mm D  
(8.7 x 4.2 x 2.3")

**Weight:** 0.9 kg (1.9 lb)

*\*Note: Pressure module uses RS232 output to communicate, it's not possible to connect to a computer via RS232 at the same time a pressure module is connected.*

## To Order

MODEL NO.	DESCRIPTION
<b>PCL1000</b>	High-accuracy multifunction calibrator
<b>PCL1000-SCC</b>	Soft carrying case
<b>PCL-PMA</b>	Pressure module adaptor required for pressure applications, PCL-PM modules (sold separately), Visit us online
<b>700MA</b>	Required adaptor to RS232 port for pressure module

*Comes complete with test leads, protective rubber boot, 1 Type K thermocouple with cable, 4 "AA" alkaline batteries, calibration certificate and operator's manual.*

*To add pressure capability, order 1 **PCL-PMA** (required) plus the modules you need. **PCL-PMA** pressure module adaptor plus **PCL-PM030G**, 0 to 30 psig pressure module.*

*Ordering Example: **PCL1000**, high-accuracy multifunction calibrator.*