PCL1000

- Read/Source Thermocouple, RTD, Thermistor, Voltage and Current
- High Accuracy: ±0.4°C T/C, ±0.3°C RTD, ±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
RTD: Pt 385 (100, 200, 500, 1 kΩ)
Pt 392: JIS, Ni120, Cu10
Thermistor: Series 400
Resistance: 0 to 400.00 and 400 to 3200 Ω
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

Continuity: 0 to 400.0 Ω; audible tone under 10 Ω
Accuracy:
T/C Type J: ±0.3°C ±10 µV
(±0.4°C total)
RTD Pt100: ±0.1°C ±0.075 Ω
(±0.3°C total)
400 Ω: ±0.1 Ω
3200 Ω: ±1.0 Ω
mA Compliance: Up to 1000 Ω 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
<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>PCL1000</td>
<td>High-accuracy multifunction calibrator</td>
</tr>
<tr>
<td>PCL1000-SCC</td>
<td>Soft carrying case</td>
</tr>
<tr>
<td>PCL-PMA</td>
<td>Pressure module adaptor required for pressure applications, PCL-PM modules (sold separately), Visit us online</td>
</tr>
<tr>
<td>700MA</td>
<td>Required adaptor to RS232 port for pressure module</td>
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</tbody>
</table>

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.