**Model PCS-2B**

**Current Calibrator**
- 10 Amp AC/DC
- 5 Ranges
- Input Voltage: 0V to ±11Vdc or 0V to 11Vac (rms)
- AC Bandwidth: 40Hz to 1kHz
- Accuracy: DC, ±(0.01% of setting + 0.01% of range + 10µA)
- Stability: DC, 0.001% of range; AC, 0.005% of range
- GPIB Remote Controlled

**APPLICATIONS**
Applications for the Model PCS-2B include: Direct Calibration of Watt Meters, Meter Shunts, AC and DC Current Meters, I to E Transducers, DVMs, DMMs, Relay Coil Current Testing.

**SPECIFICATIONS**

**INPUT**
- **Input Voltage:** 0V to ±11Vdc or 0V to 11Vac (rms).
- **Input Impedance:** 10k ohms (all ranges).
- **AC Bandwidth:** 40Hz to 1kHz.

**OUTPUT**

<table>
<thead>
<tr>
<th>Ranges</th>
<th>Resolution</th>
<th>Compliance Voltage</th>
<th>Load Reg. (%)</th>
<th>Distortion <em>(50Hz to 1kHz)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>10A</td>
<td>10µA</td>
<td>1.5Vdc or peak ac</td>
<td>±0.015</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>1A</td>
<td>1µA</td>
<td>5Vdc or peak ac</td>
<td>±0.015</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>100mA</td>
<td>100nA</td>
<td>5Vdc or peak ac</td>
<td>±0.01</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>10mA</td>
<td>10nA</td>
<td>5Vdc or peak ac</td>
<td>±0.01</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>1mA</td>
<td>1nA</td>
<td>5Vdc or peak ac</td>
<td>±0.01</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

* Distortion: Added to the distortion of the AC voltage calibrator.

**Accuracy:** DC, ±(0.01% of setting + 0.01% of range + 10µA); AC, ±(0.05% of setting + 0.01% of range + 20µA).

**Line Regulation:** ±0.0005% for ±10% line change.

**Stability:** DC, 0.001% of range; AC, 0.005% of range.

**Isolation:** Floating output; limited only by the isolation of the driving voltage source. Ripple and Noise, rms, non-additive, in a band-pass 0.1Hz to 100kHz: 1mA range, 1.5µA; 10mA range, 3.0µA; 100mA range, 40µA; 1A range, 80µA; 10A range, 375µA.
PROGRAMMING (IEEE-488.1)

The 5 ranges are GPIB programmable as well as controlled locally with front panel controls. A dip-switch, located on the rear panel, is used to set the instruments bus address.

GENERAL

**Power Requirements:** 117Vac, 60Hz, 150 watts or 220Vac, 50Hz.

**Temperature Coefficient:** 10A and 1A ranges, 50ppm/°C; 100mA, 10mA and 1mA ranges, 10ppm/°C.

**Operating Temperature:** –10°C to 40°C.

**Dimensions:** 5.22" (12.25cm) high, 17" (43.18cm) wide, 15" (38.1cm) deep.

**Weight:** 30 lbs. (13.6kg) net; 34 lbs. (15.4kg) shipping.

**Protection:** A front panel lamp indicates when the compliance voltage has exceeded or when a malfunction has occurred.

**Certification:** Certificate of Compliance traceable to U.S. N.I.S.T.

**Warranty:** One full year, includes accuracy and stability.

**Extended 1 Year Warranty:** Part No. EWPCS2B.

OPTIONAL ACCESSORIES

**CAB-005:** Cable, Two Conductor Shielded Balance Line

**CAB-018:** Cable, Multi-stacking Double Banana plug

**CAB-023:** Cable Set, Low Thermal EMF Retractable Banana

**CAB-024:** Cable Set, Low Thermal EMF Spade Lug

For a watt-hour meter calibration system see the Model 4700.

Specifications are subject to change without notice.