Electrical Test Calibrators

For Rapid Calibration of Electrical Test Equipment
5068 Insulation Tester/ Megohmmeter Calibrator
A precision instrument for calibrating general purpose insulation testers and megohmmeters with test voltages up to 2.5kV. Rugged, compact, and portable it is ideal for site calibration.
- Insulation resistance from 100kΩ to 10GΩ
- Low ohm verification at 1Ω, 10Ω, 100Ω, 1kΩ
- Accuracy: Resistance 1% of setting. Voltage and Current to 1% of reading
- Up to 2.5kV operation
- Battery operation (over 150 hours between charges)
- Continuous connection – no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage (0 to 1.999kV or 0 to 2.50kV)
- Display of short circuit current (0 to 2mA or 0 to 20mA)
- w270 x h175 x d250mm, weight 2.1kg

5069 Insulation Tester/ Megohmmeter Calibrator
A high accuracy calibrator for insulation testers and megohmmeters with test voltages up to 10kV. Sturdy and transportable it is suitable for both lab and site calibration.
- Insulation resistance from 100kΩ to 100GΩ
- Accuracy: Resistance 1% of setting. Voltage and Current to 1% of reading
- Up to 10kV operation
- Battery operation (over 150 hours between charges)
- Continuous connection – no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage (0 to 2kV or 0 to 9kV)
- Display of short circuit current (0 to 2mA or 0 to 20mA)
- w406 x h175 x d330mm, weight 4.4kg

5070 Ductor Tester/ Micro-Ohmmeter Calibrator
The DuctorCal is a portable instrument suitable for calibrating high current ductor testers and micro-ohmmeters. It contains 5 sets of high current rating standard resistors that simulate the resistance being measured.
- Calibrate ductor testers and micro-ohmmeters
- 0.2, 2, 20, 200, 2000mΩ ranges
- Accuracy/rng: 0.2mΩ (0.8%), 2mΩ (0.5%), 20mΩ (0.2%), 200 & 2000mΩ (0.1%)
- 5 point calibration: 0, 25, 50, 75, 100%
- Gold plated terminals
- Low thermal EMF connection
- Portable robust carrying case
- w540 x h210 x d410mm, weight 11kg

5080 Portable Appliance Tester Calibrator
Designed to provide rapid high accuracy calibration of portable appliance testers and insulation/continuity testers. The 5080 has calibration functions for earth bond, insulation, leakage, touch leakage, and load test.
- Earth bond range 18Ω to 20mΩ
- Earth bond currents up to 50A AC
- Load test currents up to 13A AC
- Accuracy: Resistance 1% of setting. Voltage and Current to 0.25% of reading
- Voltage and current displayed on integral LCD display
- Safety interlock feature
- Portable robust carrying case
- Battery powered (over 200 hours between charges)
- w406 x h175 x d330mm, weight 5.5kg
5030 Electrical Tester Calibrator

- **RCD**
  - 3mA to 2500mA, 10ms to 2000ms
- **Loop**
  - 50mΩ to 1.8kΩ
- **Insulation**
  - up to 2GΩ / 1kV
- **Continuity**
  - 0.1Ω to 10kΩ
- **RS-232 / USB Control**
- **Fast and intuitive user interface**
- **PC/laptop control via EasyCal software**
- **W x H x D**
  - 430 x 155 x 255mm, weight 8kg

A precision instrument designed to calibrate RCD, loop, insulation, earth testers and multifunction installation testers. The 5030 accurately simulates RCD trip times and measures currents produced by RCD testers. It replicates loop impedance and auto adjusts for local line impedance. It also provides insulation resistances and measures test voltages and currents.

<table>
<thead>
<tr>
<th>Function</th>
<th>Range / Values</th>
<th>Resolution</th>
<th>Accuracy</th>
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<tbody>
<tr>
<td>Loop Impedance Resistor Values</td>
<td>1800.0, 330.0, 180.0, 33.00, 18.00, 3.300, 1.800, 0.330, 0.150 &amp; 0.050Ω</td>
<td>4 digit</td>
<td>±0.5% of displayed value ± 30mΩ</td>
</tr>
<tr>
<td>Local Loop Compensation</td>
<td>0 to 9.999Ω</td>
<td>0.001Ω</td>
<td>±0.5% of value ± 30mΩ</td>
</tr>
<tr>
<td><strong>RCD</strong></td>
<td>Trip Time 10 to 2000ms Current 6.000, 10.00, 30.00, 100.0, 300.0, 500.0, 1000mA</td>
<td>1ms</td>
<td>±0.5% of rdg, ±1% of rdg with x5 multiplier</td>
</tr>
<tr>
<td>Current Multipliers</td>
<td>x0.5, x1, x2, x5</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Maximum Current</td>
<td>2500mA</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Waveforms</td>
<td>AC, DC &amp; half wave rectified</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Phase Detection</td>
<td>0° or 180°</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pre Trigger Delay</td>
<td>0 to 2000ms</td>
<td>10ms</td>
<td>–</td>
</tr>
<tr>
<td>Pre Trigger Threshold</td>
<td>0 to 100% of nominal current</td>
<td>1%</td>
<td>–</td>
</tr>
</tbody>
</table>

| Insulation     | Resistance 1MΩ to 2000MΩ 50Ω to 1990Ω | 1MΩ        | 1% of value ± 20mΩ     |
| Test Voltage Measurement @ 0.5mA or 1mA Load | 50.0 to 99.9V DC 1000 to 1200V DC | 0.1V       | 1% of reading          |

| Continuity     | Resistance 0.1Ω to 100.0Ω 25Ω to 500Ω 1.0Ω 2.5Ω 5.0Ω & 10.0Ω | 0.1Ω       | 1% of value ± 20mΩ     |
| Test Voltage Measurement | (input resistance 10MΩ) | 0.0 to 50.0V DC | 0.01V | 0.5% of range          |
| Test Current Measurement (between 1Ω and 20Ω) | 2.5mA 0.0 to 400mA DC | 0.1mA | 0.5% of range          |
| Power Dissipation | 1 watt maximum            | –          | –                       |

<p>| Voltage        | Line Voltage Measurement 200.0 to 260.0V RMS | 0.1V       | 0.5% of reading        |
| Line Frequency Measurement | 45.00 to 65.00Hz | 0.01Hz | 0.1% of reading        |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Calibration Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5030</td>
<td>ELECTRICAL TESTER CALIBRATOR</td>
<td>EasyCal Calibration Software, Factory Calibration Certificate (NPL traceable), UKAS Calibration Certificate (ISO 17025)</td>
</tr>
<tr>
<td>5068</td>
<td>INSULATION TESTER CALIBRATOR (100kΩ to 10GΩ)</td>
<td>Factory Calibration Certificate (NPL traceable), UKAS Calibration Certificate (ISO 17025)</td>
</tr>
<tr>
<td>5069</td>
<td>INSULATION TESTER CALIBRATOR (100kΩ to 100GΩ)</td>
<td>Factory Calibration Certificate (NPL traceable), UKAS Calibration Certificate (ISO 17025)</td>
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<tr>
<td>5070</td>
<td>CALIBRATOR FOR DUCTOR TESTERS &amp; MICRO-OHM METERS (DUCTORCAL)</td>
<td>Factory Calibration Certificate (NPL traceable), UKAS Calibration Certificate (ISO 17025)</td>
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<tr>
<td>5080</td>
<td>CALIBRATOR FOR PAT’S AND INSULATION TESTERS (PATCAL 2)</td>
<td>Factory Calibration Certificate (NPL traceable), UKAS Calibration Certificate (ISO 17025)</td>
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