### PCE-123

**Setpoint Device for Simulation**
- processes calibrator for any operation
- temperature: K-, J-, E-, T-type sensors (°C and °F)
- standardised signals: 4 ... 20 mA / 0 ... 100 mV / 1 ... 1 V / 0 ... 12 V
- frequency range: 1 ... 62,500 Hz

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>K, J, E, T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ranges</strong></td>
<td>-200 ... 0 °C &amp; 0 ... +1,370 °C; 4 ... 20 mA / 0 ... 20 mA / 0 ... 24 mA; 0 ... 100.00 mV / ...10.000 V / ...1.0000 V; 1 ...125 Hz &amp; 126 ... 62.5 kHz</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1 °C; 1 µA; 10 µV / 1 mV / 1.0000 V; 1 Hz / from 126 Hz 604 pre-set frequencies</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±0.025 % ±3 µA; ±0.05 % ±30 µV / ±3 mV / ±300 µV; ±1.1 °C (p. sensor type)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>LC display</td>
</tr>
<tr>
<td><strong>Power supp.</strong></td>
<td>1 x 9 V or 6 x 1.5 V battery pack</td>
</tr>
<tr>
<td><strong>Oper. condit.</strong></td>
<td>0 ... +50 °C, &lt;85 % RH</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>88 x 168 x 26 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>330 g</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Calibrator, K-type adaptor, pack of batteries, test leads with crocodile clips, carrying case, instruction manual

**ITEM NO.** | **ITEM** |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>K-PCE-123</td>
<td>process calibrator</td>
</tr>
</tbody>
</table>

**OPTIONAL ACCESSORIES**
- K-CAL-PCE-123 ISO calibration certificate

### PCE-789

**Multifunctional Calibrator / Simulator**
- simulates and measures current, voltage, frequency, temperature (types: K, J, E, T, R, S, N, L, U, B, C)
- integrated function generator
- graphical display with backlight
- data logging function / powered by rechargeable battery
- individually created signal waveforms can be displayed

### TECHNICAL SPECIFICATIONS

**Simulation / generation**
- **Current**
  - Range: -4 ... 24 mA
  - Resolution: 1 µA
  - Accuracy: ±0.03 % ±5 dgt
- **Voltage**
  - Range: -3 ... 15 V
  - Resolution: 1 mV
  - Accuracy: ±0.1 % ±5 dgt
- **Thermocouples**
  - Range: depends on type
  - Resolution: 0.1 °C
  - Accuracy: depends on type
- **Frequency**
  - Range: 0.3 ... 20,000 Hz
  - Resolution: 0.1 Hz
  - Accuracy: 0.002 ... 2 Hz

**Measurement**
- **Current**
  - Range: -4 ... 24 mA
  - Resolution: 1 µA
  - Accuracy: ±0.1 % ±5 dgt
- **Voltage**
  - Range: -3 ... 15 V

**Resolution** | 1 µV
**Accuracy** | ±0.1 % ±5 dgt

**Thermocouples**
- Range: depends on type
- Resolution: 0.1 °C
- Accuracy: depends on type

**General**
- Power s. internal recharge. battery or mains adaptor
- Environmental conditions
  - Operation: 0 ... +50 °C, 85 % RH
  - Storage: -20 ... +60 °C, 75 % RH
- Dimensions: 214 x 99 x 56 mm
- Weight: 650 g

**INCLUDES**
- Multifunctional calibrator, K-type adaptor, 2 x test leads, 2 x crocodile clips, 2 x measuring tips, software, USB cable, mains adaptor, carrying case, instruction manual

**ITEM NO.** | **ITEM** |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>K-PCE-789</td>
<td>multifunctional calibrator</td>
</tr>
</tbody>
</table>

**OPTIONAL ACCESSORIES**
- K-CAL-PCE-789 ISO calibration certificate