

## Therma Differential Thermometer (Type K) with optional calibration & probes



Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockings of Thermocouple Cables. The Company has been trading since 1971 and is ISO9001 accredited.

### **Optional Mineral Insulated Thermocouple probes available for a system calibration**

[Mineral Insulated Thermocouple with Miniature Plug IEC - Types K,J,T,N](#)

[Mineral Insulated Thermocouple with Standard Plug IEC - Types K,J,T,N](#)

[Fast Response \(0.5mm diameter\) Mineral Insulated Thermocouple with Threaded Pot & PFA IEC Tails - Type K](#)

[Mineral Insulated Thermocouple with Plain Pot Seal and 1m of PFA Insulated IEC Lead - Types K,J,T,N](#)

[Mineral Insulated Thermocouple with Threaded Pot and 100mm of PFA insulated Twin Twisted IEC lead - Types K,J,T,N](#)

[Fast Response \(0.5mm diameter\) Mineral Insulated Thermocouple with Miniature IEC Plug - Type K](#)

Therma Differential Thermometer two channel, T1 or T2 or T1 minus T2 differential (Probe in images not included, please pick from the wide Labfacility range of probes to suit this product).

The Therma Differential digital thermometer allows the user to use two type K thermocouple probes simultaneously.

The display can be switched to show probe T1 or T2 temperature or the difference between probes T1 and T2 (T1-T2). This allows, for example, the temperature drop across radiators or the temperature rise or fall of two items to be measured.

Each thermometer is housed in a durable, ABS case that has an integrated rubber seal to ensure complete water tightness and help reduce the possibility of damage in harsh environments.

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### **Calibration options**

Calibration can be performed to approved recognised standards (National and International) or may simply constitute checking procedures on an "in-house" basis. Temperature calibration has many facets, it can be carried out thermally in the case of probes or electrically (simulated) in the case of instruments and it can be performed directly with certified equipment or indirectly with traceable standards.

### **Calibration Type**

### **Probes Required for**

### **'Simulated Calibration'**

**Probes Required for**

**'System Calibration'**

**3 points (single channel)**

fixed @ 0, 100, 200°C

**0**

**1**

**3 points (dual channel)**

fixed @ 0, 100, 200°C

**0**

**2**

**5 points (single channel)**

fixed @ 0, 50, 100, 150, 200°C

**0**

**1**

**5 points (dual channel)**

fixed @ 0, 50, 100, 150, 200°C

**0**

**2**

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## Specifications

Product Code	XE-3989-BUNDLE
Type	K thermocouple
Accuracy	±0.4°C ±0.1% of reading
Resolution	0.1 °C to 299.9°C thereafter 1°C
Battery	3 x 1.5 volt AAA (battery life: 7500 hours)
Dimensions	32 x 71 x 141mm
Construction	ABS plastic
Ranges °C	range 0.1°C: -99.9 to 299.9°C / range 1°C: 300 to 1372°C
Display	15mm LCD with backlight
Important Information	Please note that certificates supplied do not display an expiry date. They state the date the item was manufactured. The frequency of recalibration is determined by each customer's specific application requirements and internal quality procedures.