MM2008 Thermometer

Features
A single input thermocouple thermometer with an integral timer with a separate 1 minute and 2 minute count. This thermometer is primarily developed for use in Legionella risk management and offers reassurance that the correct reading is taken when monitoring hot and cold water temperatures.

- Single input thermocouple thermometer
- °C/ °F switchable
- Counter ensures that the correct temperature is met
- 1 minute counter for hot water temperatures
- 2 minute counter for cold water temperature
- Resolution of 0.1° to 1000° autoranging
- Switchable thermocouple K & T only
- Full retention of thermocouple type and temperature scale
- Auto Switch Off capability
- Easy to use software calibration
- Overrange / Open circuit sensor indication
- Low battery indication
- Supplied complete with shock resistant rubber boot
- IP67 casing

Using the Timer
1. Press either for 1 minute count or for 2 minute count.
2. Press the same button again to switch off.

Specification

Environmental

AMBIENT OPERATING RANGE : -30 to 50 °C
STORAGE TEMPERATURE RANGE : -40 to 50 °C
HUMIDITY : 0 to 70% R.H.

Electrical

MEASUREMENT RANGES : K -200 to 1372 °C
T -200 to 400 °C

THERMOCOUPLE TYPES : K & T

TEMPERATURE SCALES : °C / °F
ACCURACY @23°C : +/- 0.1% OF READING +/- 0.2 °C
CHARACTERISING ACCURACY : LESS THAN 0.05 °C
TEMPERATURE COEFFICIENT : 0.01% OF READING /°C
COLD JUNCTION COMPENSATION : 0.0075 °C/°C
RESOLUTION : 0.1° to 1000, 1° ABOVE 1000

General

BATTERY : PP3 9V I.E.C. 6F22
BATTERY LIFE (INTERMITTENT USE) : GREATER THAN 200 HOURS (ALKALINE)
WEIGHT : 155 gm
DIMENSIONS : 130 X 70 X 33 mm

Probe

Description

This probe uses the straight handle for fine control. The probe is designed for the measurement of both surface temperatures and Immersion temperatures.

NOTE: This probe only requires light pressure to give a true reading and is suitable for smooth, clean surfaces. If used on an uneven surface, there is a risk that the band will be weakened and deformed.

Construction

Ribbon band sensor with thermocouple sensor attached and draught shield: Stainless Steel 316 (Food Grade). Sealed with Silicon Rubber compound to ensure the probe is fully waterproof. 2M curly polyurethane cable with moulded connector.

Features

- TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.
  This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

- WATERPROOF HANDLE
  Due to the total encapsulation method used, all TME probe handles are completely waterproof.

- TOUGH POLYURETHANE CABLE
  - Polyurethane cables are used in place of the standard PVC for the following reasons:
    - Greater retractability
    - Enhanced memory of its curl
    - Non-Toxic
    - Greater mechanical strength for durability
    - 12 X 0.2mm wires used internally for greater strength.
    - PTFE inner insulation for strength and retractability.

- HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT
  Type ‘K’ Thermocouple : Class I  (±1.5°C ±0.25%)

- POLYPROPYLENE HANDLES
  Polypropylene is an extremely tough and durable material, commonly used for milk crates, it has good low temperature performance and a relatively high melt temperature. It performs exceptionally well under chemical attack.
### Cross-reference for compatible probes

Suitable probes for use with this instrument

<table>
<thead>
<tr>
<th>TME PART No</th>
<th>DESCRIPTION</th>
<th>APPLICATION</th>
<th>T/C TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM08</td>
<td>LEGIONELLA SHOWER PROBE</td>
<td>SHOWER/WATER TEMPERATURE</td>
<td>K</td>
</tr>
<tr>
<td>KS20-S</td>
<td>HIGH SPEED REINFORCED DUAL SURFACE/IMMERSION PROBE</td>
<td>FOR SURFACE AND IMMERSSION MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>KPS10</td>
<td>PIPE CLAMP PROBE</td>
<td>PROBE DESIGNED TO BE CLAMPED ONTO PIPES</td>
<td>K</td>
</tr>
<tr>
<td>KP05</td>
<td>NEEDLE PROBE</td>
<td>CORE TEMPERATURE OF SEMI-SOLID MATERIAL</td>
<td>K</td>
</tr>
<tr>
<td>TP05</td>
<td>NEEDLE PROBE HEAVY DUTY</td>
<td>CORE TEMPERATURE OF SEMI-SOLID MATERIAL</td>
<td>T</td>
</tr>
<tr>
<td>TP07</td>
<td>NEEDLE PROBE HEAVY DUTY</td>
<td>CORE TEMPERATURE OF SEMI-SOLID MATERIAL</td>
<td>T</td>
</tr>
<tr>
<td>KM01</td>
<td>LIGHT DUTY M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>TM01</td>
<td>LIGHT DUTY M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KM03</td>
<td>M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>TM03</td>
<td>M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KM04</td>
<td>M.I. PROBE EXTENDED LENGTH</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>TM04</td>
<td>M.I. PROBE EXTENDED LENGTH</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KS01</td>
<td>SURFACE BAND PROBE</td>
<td>FAST RESPONSE SURFACE MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>TS01-S</td>
<td>DUAL PROBE</td>
<td>FOR SURFACE AND IMMERSION MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KS07</td>
<td>SURFACE PROBE</td>
<td>GENERAL PURPOSE SURFACE MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>TS04</td>
<td>SURFACE PROBE</td>
<td>GENERAL PURPOSE SURFACE MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KS08</td>
<td>HIGH TEMP SURFACE PROBE</td>
<td>HIGH TEMPERATURE SURFACE MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>KA04</td>
<td>AIR TEMPERATURE PROBE</td>
<td>FAST RESPONSE AIR TEMPERATURE PROBE</td>
<td>K</td>
</tr>
<tr>
<td>TA04</td>
<td>AIR TEMPERATURE PROBE</td>
<td>FAST RESPONSE AIR TEMPERATURE PROBE</td>
<td>T</td>
</tr>
<tr>
<td>TA12</td>
<td>SPATULA PROBE</td>
<td>BETWEEN PACK PROBE</td>
<td>T</td>
</tr>
<tr>
<td>KH01</td>
<td>SOCKET IN HANDLE</td>
<td>HANDLE FOR USE WITH PLUG MOUNTED PROBES</td>
<td>K</td>
</tr>
<tr>
<td>TH01</td>
<td>SOCKET IN HANDLE</td>
<td>HANDLE FOR USE WITH PLUG MOUNTED PROBES</td>
<td>T</td>
</tr>
<tr>
<td>KHA02</td>
<td>PLUG MOUNTED AIR PROBE</td>
<td>FAST RESPONSE AIR TEMPERATURE PROBE</td>
<td>K</td>
</tr>
<tr>
<td>THA2</td>
<td>PLUG MOUNTED AIR PROBE</td>
<td>FAST RESPONSE AIR TEMPERATURE PROBE</td>
<td>T</td>
</tr>
<tr>
<td>KHM01</td>
<td>PLUG MOUNTED M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>THM01</td>
<td>PLUG MOUNTED M.I. PROBE</td>
<td>GENERAL PURPOSE LIQUID/GAS MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>KHN01</td>
<td>PLUG MOUNTED NEEDLE PROBE</td>
<td>CORE TEMPERATURE OF SEMI-SOLID MATERIAL</td>
<td>K</td>
</tr>
<tr>
<td>THN01</td>
<td>PLUG MOUNTED NEEDLE PROBE</td>
<td>CORE TEMPERATURE OF SEMI-SOLID MATERIAL</td>
<td>T</td>
</tr>
<tr>
<td>THA12</td>
<td>PLUG MOUNTED SPATULA PROBE</td>
<td>BETWEEN PACK PROBE</td>
<td>T</td>
</tr>
<tr>
<td>KHS01</td>
<td>PLUG MOUNTED SURFACE BAND PROBE</td>
<td>FAST RESPONSE SURFACE MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>KHS02</td>
<td>PLUG MOUNTED SURFACE PROBE</td>
<td>GENERAL PURPOSE SURFACE MEASUREMENT</td>
<td>K</td>
</tr>
<tr>
<td>THS02</td>
<td>PLUG MOUNTED SURFACE PROBE</td>
<td>GENERAL PURPOSE SURFACE MEASUREMENT</td>
<td>T</td>
</tr>
<tr>
<td>PKHV1</td>
<td>HVAC KIT</td>
<td>PROBE KIT DESIGNED FOR THE HVAC INDUSTRY</td>
<td>K</td>
</tr>
<tr>
<td>PKGP1</td>
<td>GENERAL PURPOSE KIT</td>
<td>PROBE KIT CONTAINING MOST POPULAR PROBES</td>
<td>T</td>
</tr>
</tbody>
</table>