T.M.Electronics (UK) Ltd Technical Data

DATA SHEET

CLEGK1 Type K Compact Legionnaires Temperature Kit with Dual Probe

Description

A legionella thermometer kit comprising of our MM2008 Legionella Thermometer and Dual Purpose Probe. This kit can be used to monitor both water and surface temperatures in order to aid legionella prevention.

MM2008 LEGIONELLA THERMOMETER WITH INTEGRAL TIMER

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

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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

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BSKS01-S Budget Surface/Immersion Probe Type K

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.
1M straight polyurethane cable with moulded connector.

Sensor 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 :-
  - 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.

- **WIDE AMBIENT TEMPERATURE SPECIFICATION : -30 TO 50 ˚C**
- **TIME RESPONSE *(96% of value on clean metal)* : 3 Secs**
- **MEASUREMENT RANGE : -50 TO 250 ˚C**