

## DATA SHEET

### CLEBK3 – Type K Compact Legionnaires Temperature Kit with KS20-S Dual Purpose Surface/Immersion Probe

#### Description

A legionella thermometer kit comprising of the MM2008 Legionella Thermometer, our standard 2 meter curly cabled surface and immersion probes and pouch.

This kit can be used to monitor both water and surface temperature 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  |
| 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

## **KS20-S SURFACE/IMMERSION PROBE TYPE 'K'**

### Description

This probe is designed for monitoring both immersion and surface temperatures. It features a 'crossed' ribbon sensing tip for superior strength and speed when compared to a single band version.

### Construction

'Crossed' ribbon band sensor with thermocouple 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.

**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.

### **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 :-
- 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 ( $\pm 1.5^{\circ}\text{C} \pm 0.25\%$ )

#### **> 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

## **Pouch for Thermometer and Probes**

### **Description**

Pouch-2 zip closing polyester pouch with internal compartments and strap. This product is ideal for carrying, storing and keeping dust free all your temperature testing equipment.

Pouch Measurements: 35cm x 14cm x 5cm (approximate external)

Bottom section has three elasticated straps with Velcro fastening – will securely keep a handheld thermometer and numerous probes in place

The Lid has two mesh compartments – ideal for instruction manuals, Thermocouple Attachment Pads, Fine Wire probes and spare batteries

Light weight: Weighs just 119 grams