## **CLEGK3**

Legionella Temperature Monitoring Kit - Includes MM2008 Digital Thermometer and K Type High Speed Dual Surface/Immersion Probe

#### **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**

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

### **Specification**

#### **Environmental**

AMBIENT OPERATING RANGE :  $-30 \text{ to } 50 \,^{\circ}\text{C}$  STORAGE TEMPERATURE RANGE :  $-40 \text{ to } 50 \,^{\circ}\text{C}$  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 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 (±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.

non-continuous measurement)

: -50 TO 250 °C (higher for

## **Cross-reference for compatible probes**

Suitable probes for use with this instrument

TME PART No	DESCRIPTION	APPLICATION	T/C TYPE
KM08	LEGIONELLA SHOWER PROBE	SHOWER/WATER TEMPERATURE	K
KS20-S	HIGH SPEED REINFORCED DUAL	FOR SURFACE AND IMMERSION MEASUREMENT	K
	SURFACE/IMMERSION PROBE		
KPS10	PIPE CLAMP PROBE	PROBE DESIGNED TO BE CLAMPED ONTO PIPES	K
RISTO	THE CLAIM TROBE	TROBE DESIGNED TO BE CEAMILED ONTO THES	K
KP05	NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	К
TP05	NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	Т
KP07	NEEDLE PROBE HEAVY DUTY	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	К
TP07	NEEDLE PROBE HEAVY DUTY	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
KM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
TM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
KM03 TM03	M.I. PROBE M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K T
KM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
TM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
	M.I. TROBE EXTENDED LENGTH	develore Form OSE Ergolby dr o Mer Gortement	1
KS01	SURFACE BAND PROBE	FAST RESPONSE SURFACE MEASUREMENT	К
TS01-S	DUAL PROBE	FOR SURFACE AND IMMERSION MEASUREMENT	Т
KS07	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	K
TS04	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	T
KS08	HIGH TEMP SURFACE PROBE	HIGH TEMPERATURE SURFACE MEASUREMENT	K
KA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
TA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	1
TA12	SPATULA PROBE	BETWEEN PACK PROBE	Т
17(12	STATULATROBE	BETWEENTACKTROBE	<u>'</u>
KH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	К
TH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	Т
KHA02	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
THA2	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	T
KHM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
THM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	Т
KHN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	K
THN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
THA12 KHS01	PLUG MOUNTED SPATULA PROBE PLUG MOUNTED SURFACE BAND	BETWEEN PACK PROBE FAST RESPONSE SURFACE MEASUREMENT	K
KIIJUI	PROBE	I AST RESPONSE SURFACE MEASUREMENT	,
KHS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	К
THS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	Т
PKHV1	HVAC KIT	PROBE KIT DESIGNED FOR THE HVAC INDUSTRY	K
			T
PKGP1	GENERAL PURPOSE KIT	PROBE KIT CONTAINING MOST POPULAR PROBES	K