

DATA SHEET

KS01-S DUAL PURPOSE 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. 2M curly 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 :-
- Greater retractability
- Enhanced memory of it's 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.

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| ➤ WIDE AMBIENT TEMPERATURE SPECIFICATION | : -30 TO 50 °C |
| ➤ TIME RESPONSE (96% of value on clean metal) | : 3 Secs |
| ➤ MEASUREMENT RANGE measurement) | : -50 TO 250 °C (higher for non-continuous |

➤ **Cross-reference for compatible instruments**

➤ Suitable instruments for use with this probe

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| TME PART No | DESCRIPTION | APPLICATION |
|--------------------|---|--|
| MM2000 | SINGLE INPUT INSTRUMENT | HIGH ACCURACY TEMPERATURE MEASUREMENT |
| MM2008 | LEGIONELLA THERMOMETER W/ TIMER | LEGIONELLA TEMPERATURE MEASUREMENT |
| MM2010 | MAX / MIN HOLD INSTRUMENT | HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES |
| MM2020 | DIFFERENTIAL INSTRUMENT | DUAL INPUT INSTRUMENT FOR DIFFERENTIAL MEASUREMENTS |
| MM2030 | THERMOCOUPLE SIMULATOR | HIGH ACCURACY SIMULATOR WITH MEASUREMENT FACILITY |
| MM7000-2D | BARCODE SCANNING THERMOMETER | HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY |
| MM7005-2D | BARCODE SCANNING THERMOMETER W/ USB | HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY & USB |
| MM7100-2D | NEW GEN BARCODE SCANNING THERMOMETER | HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY |
| MM7105-2D | NEW GEN BARCODE SCANNING THERMOMETER W/ USB | HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY & USB |