

DATA SHEET

KS18-S ULTRA FAST SURFACE/IMMERSION PROBE TYPE 'K' NARROW SHIELD**RIBBON SURFACE/IMMERSION PROBE - Type 'K'**Description

This probe uses the straight handle for fine control and designed for both surface and immersion temperature measurement. The probe is manufactured with *ThermaSprint* Technology producing an ultra-fast response time.

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 thermocouple sensor and draught shield 110mm long x 7.5mm diameter: 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➤ **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.

➤ **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.

➤ ***ThermaSprint* Technology**

Producing an unparalleled response time of just 2 seconds

➤ **WATERPROOF CONSTRUCTION THROUGHOUT**

Due to the total encapsulation method used, the probe is fully 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 ($\pm 1.5^{\circ}\text{C} \pm 0.25\%$)

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|---|------------------------|
| ➤ WIDE AMBIENT TEMPERATURE SPECIFICATION | : -30 TO 50 °C |
| ➤ TIME RESPONSE (96% of value on clean metal) | : 2 Secs |
| ➤ MEASUREMENT RANGE | : -50 TO 250 °C |

Cross-reference for compatible instruments

Suitable instruments for use with this probe

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