

## DATA SHEET

### KS01 SURFACE (BAND) PROBE TYPE 'K'

#### **RIBBON SURFACE PROBE - Type 'K'**

##### Description

This probe uses the straight handle for fine control. The probe is designed for the measurement of surface temperatures giving a fast response time.

##### Construction

Ribbon band sensor with thermocouple sensor attached and draught shield : Stainless Steel 316 (Food Grade)  
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 polyurethane 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 (±0.1.5°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)** : 0.1 Secs
- **MEASUREMENT RANGE** : -200 TO 300 °C (higher for non-continuous measurement)

#### 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
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



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Board Mount Temperature Sensors](#) category:*

*Click to view products by [TME](#) manufacturer:*

Other Similar products are found below :

[5962-8757102XA](#) [66F115](#) [MCP9808-EMS](#) [MCP98242T-BEMNY](#) [MCP9843T-BEMC](#) [EMC1063-1-ACZL-TR](#) [NCT218FCT2G](#)  
[O53GAB175A-160Y](#) [OH10/62,112](#) [3610085020002](#) [389049M9527](#) [TC622EAT](#) [TC6501P095VCTTR](#) [TC6501P105VCTTR](#)  
[TC6501P125VCTTR](#) [MCP9802A0T-M/OT](#) [MCP9803T-M/SN](#) [MCP9843-BEST](#) [TC6501P115VCTTR](#) [TC6502P065VCTTR](#)  
[ADM1023ARQZ-REEL](#) [ADM1024ARUZ-REEL](#) [ADM1032ARMZ-1RL](#) [AT30TS74-U1FMBB-T](#) [AT30TS74-U1FMAB-T](#) [AT30TS74-](#)  
[U1FMCB-T](#) [AT30TS74-U1FMDB-T](#) [ADT7483AARQZ-RL](#) [ADT7481ARMZ-REEL](#) [ADT7463ARQZ-REEL](#) [MCP98243T-BEMNY](#)  
[MCP98243T-BE/MC](#) [66L080-0226](#) [MAX31820MCR+T](#) [MAX1452CAEC8H](#) [DS1780E](#) [TMP05BKSZ-REEL7](#) [5962-8757103XA](#) [WTK-14-](#)  
[36/N](#) [E52-CA6D-N 4M](#) [MCP98244T-BEMNY](#) [MCP9802A5T-MOT](#) [MAX6581TG9A+T](#) [DS75S-C11+T&R](#) [S-58LM20A-I4T1U](#)  
[MAX6501UKP120+T](#) [MCP98243T-BE/ST](#) [AT30TS01-MAA5M-T](#) [NCT375DR2G](#) [DS18S20-SL+T&R](#)