# **DATA SHEET**

# KS19 EXTRA HIGH TEMPERATURE FAST RESPONSE SURFACE PROBE TYPE 'K'

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

### **Description**

This probe uses a ribbon sensor housed in ceramic and an extended length for high temperature surface applications. The ribbon sensor allows for a quicker response time when compared with our standard extra high temperature surface probe.

#### Construction

Surface probe with stainless steel ribbon wire sensing tip protected by a stainless steel and ceramic 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 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 (±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) : 3.0 Secs
 MEASUREMENT RANGE : 0 TO 1100 °C

#### **Cross-reference for compatible instruments**

Suitable instruments for use with this probe

DESCRIPTION	APPLICATION
SINGLE INPUT INSTRUMENT	HIGH ACCURACY TEMPERATURE MEASUREMENT
MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES
DIFFERENTIAL INSTRUMENT	DUAL INPUT INSTRUMENT FOR DIFFERENTIAL MEASUREMENTS
THERMOCOUPLE SIMULATOR	HIGH ACCURACY SIMULATOR WITH MEASUREMENT FACILITY
	SINGLE INPUT INSTRUMENT MAX / MIN HOLD INSTRUMENT DIFFERENTIAL INSTRUMENT