

## DATA SHEET

### KA01 FINE WIRE (PTFE) THERMOCOUPLE SENSOR

#### TYPE 'K'

### FINE WIRE SENSOR - Type 'K'

#### Description

This sensor is constructed using a 1M length PTFE wire constructed as a twisted pair. The wire used is Class 1 Type K alloys (NiCr / NiAl). A weld bead is manufactured at one end of the wire whilst the other end is terminated in a moulded miniature thermocouple plug.

#### **Sensor Features**

➤ **MOULDED PLUG**

The use of a moulded plug gives a robust construction as well as providing a waterproof termination.

➤ **HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT**

Type 'K' Thermocouple : Class I (±1.5°C ±0.25%)

➤ **WIDE AMBIENT TEMPERATURE SPECIFICATION : -100 TO 50 °C**

➤ **TIME RESPONSE (96% of value in moving gas) : 0.1 Secs**

➤ **MEASUREMENT RANGE : -100 TO 250 °C**

(Please note may be used for temperatures down to -100°C however insulation will become brittle at temperatures below -50°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
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