

## DATA SHEET

### KA02-V FINE WIRE (Fibre Glass) THERMOCOUPLE SENSOR

#### TYPE 'K' IN VARIOUS LENGTHS

#### FINE WIRE SENSOR - Type 'K'

##### Description

This sensor is constructed using a 1M length Fibre Glass 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.

This probe is available in various lengths up to 20 meters.

##### **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 ( $\pm 1.5^{\circ}\text{C} \pm 0.25\%$ )

- **WIDE AMBIENT TEMPERATURE SPECIFICATION** : -50 TO 50 °C
- **TIME RESPONSE** (*96% of value in moving gas*) : 0.1 Secs
- **MEASUREMENT RANGE** : -50 TO 450 °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

Please note that the cable may become discoloured and brittle if exposed to high temperatures. This is perfectly normal and will not affect the performance of the temperature probe. Additional care should be taken when handling the probe under these circumstances.