T.M.Electronics (UK) Ltd Technical Data

MODELS 5400/5500

LARGE DISPLAY THERMOCOUPLE THERMOMETERS

FEATURES

These large display LED Thermometers are high accuracy microprocessor driven thermometers for use with thermocouple types K, T, R, S, N, J or E.

High accuracy microprocessor based instrument with a measurement range of –200 to +1780 °C and an operating range of -30 to 50 °C.

- *** **°C / °F Switchable**
- *** **Resolution of 0.1° to 1000°C Autoranging**
- *** **K, T, R, S, N, J or E THERMOCOUPLE TYPES**
- *** **Overrange / Open circuit sensor indication**
- *** **LED Display**

SPECIFICATION

Environmental

AMBIENT OPERATING RANGE	:	0 to 50 °C
STORAGE TEMPERATURE RANGE	:	-40 to 50 °C
HUMIDITY	:	0 to 70% R.H.

ELECTRICAL

TABLE 1. Measurement ranges

	CELSIUS	FAHRENHEIT
K	-200 to 1372	-200 to 2501
T	-200 to 400	-200 to 752
J	-200 to 1200	-200 to 2192
R	0 to 1767	32 to 3212
S	0 to 1767	32 to 3212
N	-200 to 1200	-200 to 2192
E	-200 to 1000	-200 to 1832

Accuracy @ 23°C		: ± 0.25% reading ±0.6°C
Characterising errors		: Less than 0.05°C
Temperature coefficient		: 0.01% of reading / °C
Cold junction compensation		: 0.0075 °C / °C
Resolution		: 0.1° autoranging 1° above 1000°
Input voltage ranges	*	: 240 V AC ±10%
		: 110 V AC ± 10%
	*:	9-30 V AC or DC

* Option - specify at time of ordering

GENERAL

Dimensions	: 460 x 200 x 100 mm (5500) 380 x 150 x 200 mm (5400)
Connections	: Miniature / Standard T/C Connector