T.M.Electronics (UK) Ltd Technical Data

MODEL 6000

SINGLE INPUT BENCH TOP THERMOCOUPLE THERMOMETER

FEATURES

This bench-top instrument is a 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**
- *** **User selectable K, T, R, S, N, J or E Thermocouple types**
- *** **Overrange / Open circuit sensor indication**
- *** **LCD Backlight 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

Weight	: 500 gms
Dimensions	: 118X57X150 mm 4.65”X2.24”X5.90”
Connections	: Miniature T/C Connector