

## MODEL MM2050

### HIGH ACCURACY PT100 THERMOMETER

#### FEATURES

High quality, High accuracy versatile microprocessor based PT100 instrument with many features as standard such as

- \*\*\* °C / °F / °A Switchable
- \*\*\* Measurement range -200°C to 850 °C
- \*\*\* Resolution of 0.1° to 1000° autoranging
- \*\*\* Max / Min / Hold Functions using dual display for ease of use
- \*\*\* Three or Four wire measurement modes
- \*\*\* User configurable Auto Switch Off capability
- \*\*\* Calibration via front keypad
- \*\*\* Full retention of sensor type and temperature scale
- \*\*\* Overrange / Open circuit sensor indication
- \*\*\* Low battery indication
- \*\*\* Supplied complete with shock resistant rubber boot
- \*\*\* IP67 casing

The custom display allows Max / Min / Hold to be shown on a secondary display whilst the real time measurement continues to be displayed.

#### SPECIFICATION

##### ENVIRONMENTAL

AMBIENT OPERATING RANGE	:	-30 to 50 °C
STORAGE TEMPERATURE RANGE	:	-40 to 50 °C
HUMIDITY	:	0 to 70% R.H.

##### ELECTRICAL

MEASUREMENT RANGES	:	-200 to 850 °C
SENSOR TYPES	:	USER CONFIGURABLE FOR TWO THREE OR FOUR WIRE MODES
TEMPERATURE SCALES	:	°C / °F / °A
ACCURACY @23°C	:	+/- 0.1% OF READING +/- 0.2 °C
CHARACTERISING ACCURACY	:	LESS THAN 0.05 °C
TEMPERATURE COEFFICIENT	:	0.01% OF READING /°C
RESOLUTION	:	0.1° to 1000, 1° ABOVE 1000

##### GENERAL

BATTERY	:	PP3 9V I.E.C. 6F22
BATTERY LIFE (INTERMITTENT USE)	:	GREATER THAN 200 HOURS (ALKALINE)
WEIGHT	:	155 gms
DIMENSIONS	:	130 X 70 X 33 mm

### **MM2050 PIN CONNECTIONS**

Connector Pin No	1	2	3	4
Function	I+	V+	V-	I-

**Note:** for 3 wire systems please link V- and I-

### **Cross-reference for compatible probes**

Suitable probes for use with this instrument

TME PART No	DESCRIPTION	APPLICATION
PRTM01	GENERAL PURPOSE PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT
PRTN05	NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL
PRTA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE