

## MODEL MM2000

### SINGLE INPUT THERMOCOUPLE THERMOMETER

#### FEATURES

Easy to use low cost high accuracy microprocessor based thermocouple instrument with a measurement range of -200 to +1372 °C and an operating range of -30 to 50 °C.

- \*\*\* °C / °F switchable
- \*\*\* Resolution of 0.1° to 1000° autoranging
- \*\*\* Switchable thermocouple types K / T / J / R / N / E / S
- \*\*\* Infra-Red sensor compatability
- \*\*\* Full retention of thermocouple type and temperature scale
- \*\*\* User configurable Auto Switch Off capability
- \*\*\* Easy to use software calibration
- \*\*\* Overrange / Open circuit sensor indication
- \*\*\* Low battery indication
- \*\*\* Supplied complete with shock resistant rubber boot
- \*\*\* IP67 casing

#### 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 : K -200 to 1372 °C  
 T -200 to 400 °C  
 J -200 to 1200 °C  
 R 0 to 1767 °C  
 N -200 to 1200 °C  
 E -200 to 1000 °C  
 S 0 to 1767 °C

THERMOCOUPLE TYPES : K T J R N E S  
 INFRA-RED SENSOR (Exergen K80) : K80 -50 to 250 °C  
 TEMPERATURE SCALES : °C / °F  
 ACCURACY @23°C : +/- 0.1% OF READING +/- 0.2 °C  
 CHARACTERISING ACCURACY : LESS THAN 0.05 °C  
 TEMPERATURE COEFFICIENT : 0.01% OF READING /°C  
 COLD JUNCTION COMPENSATION : 0.0075 °C/°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

## Cross-reference for compatible probes

Suitable probes for use with this instrument

TME PART No	DESCRIPTION	APPLICATION	T/C TYPE
KP05	NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	K
TP05	NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
KP07	NEEDLE PROBE HEAVY DUTY	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	K
TP07	NEEDLE PROBE HEAVY DUTY	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
TP10	SOUS VIDE NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
KM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
TM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
KM03	M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
TM03	M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
KM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
TM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
KS01	SURFACE BAND PROBE	FAST RESPONSE SURFACE MEASUREMENT	K
TS01-S	DUAL PROBE	FOR SURFACE AND IMMERSION MEASUREMENT	
KS07	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	K
TS04	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	T
KS08	HIGH TEMP SURFACE PROBE	HIGH TEMPERATURE SURFACE MEASUREMENT	K
KA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
TA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	T
TA12	SPATULA PROBE	BETWEEN PACK PROBE	T
KH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	K
TH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	T
KHA02	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
THA2	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	T
KHM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	K
THM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	T
KHN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	K
THN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	T
THA12	PLUG MOUNTED SPATULA PROBE	BETWEEN PACK PROBE	T
KHS01	PLUG MOUNTED SURFACE BAND PROBE	FAST RESPONSE SURFACE MEASUREMENT	K
KHS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	K
THS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	T
PKHV1	HVAC KIT	PROBE KIT DESIGNED FOR THE HVAC INDUSTRY	K
PKF1	FOOD KIT	PROBE KIT DESIGNED FOR THE FOOD INDUSTRY	T
PKGP1	GENERAL PURPOSE KIT	PROBE KIT CONTAINING MOST POPULAR PROBES	K
TP01	CORKSCREW PROBE	PROBE DESIGNED FOR CORE TEMPERATURE OF MEAT	T
KPS10	PIPE CLAMP PROBE	PROBE DESIGNED TO BE CLAMPED ONTO PIPES	K
TFS01	FOOD SIMULANT PROBE	SIMULATES THE CORE TEMPERATURE OF FOOD IN HOT OR COLD STORAGE	