MMWALLKIT

TYPE T TEMPERATURE MONITORING KIT WITH THERMOMETER, NEEDLE, FLAT FOOD/PALLET PROBES AND WALLMOUNT HOLDER

MM2000 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 compatibility
***	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 STORAGE TEMPERATURE RANGE HUMIDITY ELECTRICAL	:	-30 to 50 °C -40 to 50 °C 0 to 70% R.H.
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 1000 °C E -200 to 1767 °C S 0 to 1767 °C
THERMOCOUPLE TYPES INFRA-RED SENSOR (Exergen K80) TEMPERATURE SCALES ACCURACY @23°C CHARACTERISING ACCURACY TEMPERATURE COEFFICIENT COLD JUNCTION COMPENSATION RESOLUTION		°C / °F
GENERAL		
BATTERY BATTERY LIFE (INTERMITTENT USE) WEIGHT DIMENSIONS	-	PP3 9V I.E.C. 6F22 GREATER THAN 200 HOURS (ALKALINE) 155 gms 130 X 70 X 33 mm

Probes

TP05 Needle Probe

This probe uses the bulbous handle to enable the sensor tip to be pushed into a semi-solid product with maximum ease of use.

Construction

Needle Probe 3.3mm Diameter by 115mm Long : Stainless Steel 316 (Food Grade) 2M curly polyurethane cable with moulded connector. Complete waterproof assembly.

Sensor Features

> TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.

This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

> WATERPROOF HANDLE

Due to the total encapsulation method used, all TME probe handles are completely waterproof.

> TOUGH POLYURETHANE CABLE

- Polyurethane cables are used in place of the standard polyurethane for the following reasons :-
- Greater retractability
- Enhanced memory of its curl
- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength and retractability.

> HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT

Type 'T' Thermocouple : ½ Class I (±0.25°C ±0.15%)

> POLYPROPYLENE HANDLES

Polypropylene is an extremely tough and durable material, commonly used for milk crates, it has good low temperature performance and a relatively high melt temperature. It performs exceptionally well under chemical attack.

\succ	WIDE AMBIENT TE	MPERATURE SPECIFICATION	: -30 TO 50 °C
\succ	TIME RESPONSE	(96%of value in water)	: 1.6 Secs
۶	MEASUREMENT RA	ANGE	: -100 TO 280 °C

TA12 Flat Food/Pallet Probe

The probe is designed for the measurement of temperature between products. Most commonly used as part of a goods inward inspection procedure. May also be used for liquid temperature measurement.

Construction

Stainless Steel Blade 110mm Long with 90mm x 5mm Flat: Stainless Steel 316 (Food Grade) 2M curly polyurethane cable with moulded connector. Complete waterproof assembly. This provides the user with a far more robust product than the foil type of between pack probe.

Sensor Features

> TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.

This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

> WATERPROOF HANDLE

Due to the total encapsulation method used, all TME probe handles are completely waterproof.

> TOUGH POLYURETHANE CABLE

- Polyurethane cables are used in place of the standard PVC for the following reasons
- Greater retractability
- Enhanced memory of its curl
- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength and retractability.

> HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT

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\triangleright	WIDE AMBIENT TEMPERATURE SPECIFICATION	: -30 TO 50 °C
\succ	TIME RESPONSE (96% of value in water)	: 3.0 Secs
\triangleright	MEASUREMENT RANGE	: -50 TO 300 °C

ACCESSORIES

MMWALLHOLD

Thermometer and Probe Holder. Convenient wall storage that helps prevent damage to temperature monitoring equipment whilst not in use.

- Strong, hygienic stainless steel construction
- Measures: 93 x145 (incl clips) x 40mm
- Keyhole slots for ease of fitting

Requires: Wall screws.

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	К
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
-			T
TP10	SOUS VIDE NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	
KM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	К
TM01	LIGHT DUTY M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	Т
KM03	M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	К
TM03	M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	Т
KM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	К
TM04	M.I. PROBE EXTENDED LENGTH	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	Т
KS01	SURFACE BAND PROBE	FAST RESPONSE SURFACE MEASUREMENT	К
TS01-S	DUAL PROBE	FOR SURFACE AND IMMERSION MEASUREMENT	1
KS07	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	к
TS04	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	Т
KS08	HIGH TEMP SURFACE PROBE	HIGH TEMPERATURE SURFACE MEASUREMENT	K
1300			ĸ
KA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	К
TA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	Т
TA12	SPATULA PROBE	BETWEEN PACK PROBE	Т
KH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	К
			Т
TH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	
KHA02	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
THA2	PLUG MOUNTED AIR PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	Т
KHM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	К
THM01	PLUG MOUNTED M.I. PROBE	GENERAL PURPOSE LIQUID/GAS MEASUREMENT	Т
KHN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	К
THN01	PLUG MOUNTED NEEDLE PROBE	CORE TEMPERATURE OF SEMI-SOLID MATERIAL	Т
THA12	PLUG MOUNTED SPATULA PROBE	BETWEEN PACK PROBE	Т
KHS01	PLUG MOUNTED SURFACE BAND PROBE	FAST RESPONSE SURFACE MEASUREMENT	К
KHS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	К
THS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	Т
PKHV1	HVAC KIT	PROBE KIT DESIGNED FOR THE HVAC INDUTRY	К
PKF1	FOOD KIT	PROBE KIT DESIGNED FOR THE FOOD INDUTRY	Т
PKGP1	GENERAL PURPOSE KIT	PROBE KIT CONTAINING MOST POPULAR PROBES	K
TP01	CORKSCREW PROBE	PROBE DESIGNED FOR CORE TEMPERATURE OF MEAT	т
			K
KPS10	PIPE CLAMP PROBE	PROBE DESIGNED TO BE CLAMPED ONTO PIPES	К
TFS01	FOOD SIMULANT PROBE	SIMULATES THE CORE TEMPERATURE OF FOOD IN HOT OR COLD STORAGE	