MODEL 2020

DUAL INPUT DIFFERENTIAL THERMOCOUPLE THERMOMETER

FEATURES

This instrument is designed for applications requiring either direct or differential measurement. It incorporates many features such as

> *** °C / °F / °A Switchable

*** I/P 1, I/P 2, DIFFERENTIAL, HOLD

*** True arithmetic differential reading or differential result and input 1

Simultaneous display of both inputs

Resolution of 0.1° to 1000° autoranging ***

Switchable thermocouple types K/T/J/R/N/E/S

*** Infra-Red compatability

*** Full retention of thermocouple type and temperature scale

User configurable Auto Swith Off capability Overrange / Open circuit sensor indication

*** Low battery indication

*** Supplied complete with shock resistant rubber boot

IP67 casing

The custom display allows input 1 to be shown on a secondary display whilst displaying differential measurement. Input 1 and input 2 may also be displayed simultaneously

SPECIFICATIONS

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 1372 °C Κ

Т -200 to 400 °C -200 to 1200 °C J R 0 to 1767 °C -200 to 1200 °C -200 to 1000 °C 0 to 1767 °C

THERMOCOUPLE TYPES KTJRNES INFRA-RED SENSOR K80 -50 to 250 °C (Exergen K80) :

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

TEMPERATURE SCALES $^{\circ}$ C / $^{\circ}$ F / $^{\circ}$ A

FUNCTIONS I/P1 / I/P2 / DIFFERENTIAL / HOLD

GENERAL

PP3 9V I.E.C. 6F22

BATTERY LIFE (INTERMITTENT USE) **GREATER THAN 200 HOURS**

(ALKALINE)

WFIGHT 155 ams

DIMENSIONS 130 X 70 X 33 mm

1

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 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
TPTU	3003 VIDE NEEDLE PROBE	CORE TEIMPERATURE OF SEMI-SOLID MATERIAL	
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	Т
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	К
TS04	SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	T
KS08	HIGH TEMP SURFACE PROBE	HIGH TEMPERATURE SURFACE MEASUREMENT	K
K300	THAT TEMP SON ACE PROBE	THAT TEMPERATURE SURFACE MEASUREMENT	K
KA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	K
TA04	AIR TEMPERATURE PROBE	FAST RESPONSE AIR TEMPERATURE PROBE	Т
TA12	SPATULA PROBE	BETWEEN PACK PROBE	Т
1/1/4	SPATULA PROBE	BETWEEN FACK PROBE	'
KH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	K
TH01	SOCKET IN HANDLE	HANDLE FOR USE WITH PLUG MOUNTED PROBES	Т
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	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	K
THS02	PLUG MOUNTED SURFACE PROBE	GENERAL PURPOSE SURFACE MEASUREMENT	Т
PKHV1	HVAC KIT	PROBE KIT DESIGNED FOR THE HVAC INDUTRY	K
PKF1	FOOD KIT	PROBE KIT DESIGNED FOR THE HVAC INDUTRY PROBE KIT DESIGNED FOR THE FOOD INDUTRY	T
PKGP1	GENERAL PURPOSE KIT	PROBE KIT CONTAINING MOST POPULAR PROBES	K
PRUPI	GENERAL PURPOSE KIT	PRODE NT CONTAINING MOST POPULAR PROBES	N.
TP01	CORKSCREW PROBE	PROBE DESIGNED FOR CORE TEMPERATURE OF MEAT	Т
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	