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Therma Differential K-Type Thermometer



Operating Instructions

Therma Differential K-Type Thermometer

INSTRUMENT OPERATION:

Connect probes via the sockets located at the top of the instrument. Switch the instrument on and apply the tip of the probe to the substance or medium to be measured. The instrument reading may take a few seconds to stabilise, depending on the nature of the measurement and sensitivity of the probe.

HOLD:

Press the HOLD button to freeze the display, press again to continue measuring.

MAX/MIN:

Press the MAX/MIN button to display the values. The instrument retains the max/min values when switched off. To reset, press the MAX/MIN button for three seconds - 'rst' will be displayed.

MODE:

Press the MODE button to scroll through T1, T2 or T1 - T2.

NULL:

Press the MODE button for three seconds to null the differential reading to 0.0°C/°F.

°C/°F:

Press and hold the ON/OFF button for five seconds at startup.

BACKLIGHT:

Press the HOLD button for two seconds.

Note: the backlight will not operate if 'LO BAT' is being displayed (backlight timeout = 20 seconds).

AUTO-OFF:

The unit will switch off automatically after 10 minutes. To disable auto-off, press the HOLD button whilst switching on the instrument (this is reset when the instrument is switched off).

OPEN CIRCUIT/FAULTY PROBE:

If the probe has developed an 'Open Circuit' fault, the instrument will display 'Err'.

SENSORS:

This instrument should only be used with type K (Nickel Chromium/Nickel Aluminium) thermocouple probes (to BS EN 60584-2) fitted with miniature type K thermocouple plugs, where applicable (to BS EN 50212).

BATTERY REPLACEMENT:

The instrument will display a low battery symbol to warn that the batteries will need

changing soon. The instrument continues to measure accurately, but after further usage the instrument will display 'flat bat' and shut down. Replace the batteries with three AAA batteries located under the rear case half that is held in place by six screws. Check the seal for damage and carefully replace the rear case half and re-fit and tighten the screws.

GUARANTEE:

This instrument carries a 2 year warranty and guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of the manufacturer, be either repaired or replaced without charge. The product warranty and guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. No warranty of fitness for a particular purpose is offered and the user assumes the entire risk of using the product. Any liability by the manufacturer is limited only to the replacement of defective materials or workmanship and the manufacturer accepts no responsibility for consequential loss. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

INSTRUMENT RECORD CARD

Serial number: _____

Calibrated by: _____ Date: _____

	0°C	1000°C
thermocouple		

This instrument has been checked or calibrated against reference instrument(s) calibrated by a UKAS Accredited Calibration Laboratory.

TYPE K to BS EN 60584-2