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IR-Pocket Infrared Thermometer



Operating Instructions

IR-Pocket Thermometer

INSTRUMENT OPERATION:

Simply aim the thermometer at the target and press the 'Measure' button to display the surface temperature. The distance to target ratio is 1:1 therefore the thermometer should be positioned as close to the target as possible.

MIN/MAX:

First turn the instrument on by pressing the 'Measure' button, then press the 'Mode' button once for minimum or twice for maximum. The 'MIN' or 'MAX' icon will flash, press the 'Measure' button to confirm the minimum or maximum mode. Keep pressing the 'Measure' button; the thermometer will display the minimum or maximum reading only.

LOCK:

The lock mode is particularly useful for continuous monitoring of temperatures. To utilise the lock mode, first turn the instrument on by pressing the 'Measure' button, then press the 'Mode' button three times for the lock mode function. The 'LOCK' icon will flash, then press the 'Measure' button to confirm the lock measurement mode. The thermometer will continuously display the temperature for up to 60 minutes or until the 'Measure' button is pressed.

°C OR °F:

To change the thermometer from °C to °F or from °F to °C, first turn the instrument on by pressing the 'Measure' button, then press the 'Mode' button four times, the °C or °F symbol will flash, press the 'Measure' button to change the scale.

EMISSIVITY:

The IR-Pocket Thermometer is supplied with a default emissivity of 0.95. The emissivity can be changed from 0.1 (10E) to 1 (100E). Changes should only be carried out by experienced personnel. To change the emissivity, first turn the instrument on by pressing the 'Measure' button, then press the 'Mode' button five times for the Emissivity function. '95E' will flash on the LCD screen, press the 'Measure' button to adjust the emissivity value, then press the 'Mode' button again to exit the setup screen. For information relating to the emissivity of specific materials, please contact our sales office.

Note: non-contact infrared thermometers are not recommended for use in measuring the temperature of shiny or polished metals.

LED SPOT ALIGNMENT:

The LED indicator is not exactly the same as the target size. To get the best measurement result, you need to aim at the target within a distance of about 2.54cm.

LCD ERROR MESSAGES:

'Er2' is displayed when the IR-Pocket Thermometer is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature exceeds -10°C (14°F) or 50°C (122°F). The thermometer should be allowed plenty of time (minimum 30

minutes) to stabilise to the working/ room temperature. Error 5-9, for all other error messages it is necessary to reset the thermometer. To reset, turn the instrument off, remove the batteries and wait for a minimum of one minute, reinsert the batteries and then turn the unit on. If the error message remains, please contact York Survey Supply Centre for further assistance. 'Hi' or 'Lo' is displayed when the temperature being measured is outside the measurement range.

BATTERY REPLACEMENT:

When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with 2x AAA batteries.

Note: It is important to turn the instrument off before replacing the batteries otherwise the thermometer may malfunction. If a malfunction occurs, restart the device. Keep the batteries away from children.

STORAGE & CLEANING:

The sensor lens is the most delicate part of the thermometer and should be kept clean at all times. Care should be taken when cleaning the lens, using only a soft cloth or cotton swab with water or medical alcohol. Do not submerge any part of the thermometer. Allow the lens to fully dry before re-using it. The thermometer should be stored between -20°C to 60°C (-4 °F to 40°F).

EMC/RFI:

Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per metre, however, the performance of the instrument will not be permanently affected.

GUARANTEE:

This instrument carries a 1 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.