

# IRTLC750I



## Dual Thermometer – Infrared and folding probe

Product Code: IRTLC750I



Compliance with confidence

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## **1.0 INTRODUCTION**

- 1.1 Congratulations on your purchase of an ebro thermometer. With considerate operation it should provide accurate and stable measurements for a long time to come.
- 1.2 The TLC 750i is both an infrared as well as contact thermometer. You can choose between these two measuring methods at any time. When using the thermometer in infrared mode, there are two integrated laser pointers to help target the desired measuring surface.

## **2.0 CAUTION**

The thermometer must be protected from:

- 2.1 Electromagnetic fields created by electronic welding devices and induction heating equipment.
- 2.2 Static electricity
- 2.3 “Thermal shock “caused by large and sudden temperature changes, always allow device to stabilize for 30 minutes before use.
- 2.4 Risk of injury! When the probe needle is folded out, there is a risk of injury. Risk of contamination! When injured by the probe needle, you could be infected with dangerous bacteria! You may burn yourself! After measuring objects at high temperatures, the feeler needle may stay hot for some time. Avoid twisting the plunge feeler or turning the plunge feeler in the wrong direction. Placing too much stress on the plunge feeler can cause it to break. Operate the device only in compliance with the parameters listed in the technical data. Never subject the device to temperatures  $> 50^{\circ}\text{C}$ ! Warning concerning laser beams Risk of injury to eyes! Do not point the laser directly at the eyes or indirectly at the eyes by pointing at reflective surfaces.
- 2.5 Do not keep device near hot or very cold objects.

## 3.0 OPERATION

### 3.1 Measuring with the contact probe

Unfold the measuring probe and position the tip of the probe at the spot where you would like to take the measurement. Wait until the temperature has stabilized.

The value will then appear on the display. If auto hold mode is active, the value will freeze in the display, which will show „AHLD“. If auto hold mode is inactive, the value can freeze upon holding button 1. The display will show „HOLD“. After holding button 1 again, the measurement will continue. The display rotation, which is active by default, will turn the display, so that it can be read when pointing the core temperature probe from your body. This function can be deactivated in the user menu.

### 3.2 Measuring using the infrared sensor and laser pointers

To perform a measurement using the infrared sensor, point the infrared lens at the point you would like to measure and press the button 1. The core temperature probe must be closed. Point the sensor in such a way that both laser points are visible on the object you are measuring. The area between the two laser points represents the surface whose temperature will be measured.

### 3.3 MIN and MAX display

During the measurement, the highest and lowest values will be stored. To show the lowest value, push button 2. To show the highest value, push button 3.

### 3.4 Switching off

The device will switch off after 10 minutes automatically. It can be switch off manually by holding buttons 2 and 3, or by closing the core temperature probe.

### 3.5 User Menu to enter the user menu, the device must be switched off and the core temperature probe must be closed. Hold buttons 2 and 3, and then hold button 1 additionally for at least three seconds. Thereafter the settings will be shown one after the other. They can be changed with buttons 2 and 3, then confirmed with button 1.

## 4.0 TEMPERATURE MEASUREMENT

4.1 UNIT: °C or °F

LASP: Laser pointer on/off

EMIS: Emissivity. 0.95 default, settable from 0.10 to 1.00

AHLD: Auto hold function on/off

LCDR: Display rotation on/off

BCKL: display backlight on/off

The display of the next menu item will follow, after three seconds or after pushing button 1. After the last menu item, the device will be in infrared measurement mode.

4.2 If error message displays, refer to Section 7.0

## 5.0 Malfunction Indicators

5.1 'HI' display: temperature measured is above range.

'HI' display: an open circuit is detected in probe or cable.

'LO' display: temperature measured in below range.

'LO' display: a short circuit is detected in probe or cable.

Three dashes display: probe disconnected or broken.

5.2 Contact our technical helpline if diagnosis is not clear.

## 6.0 BATTERIES

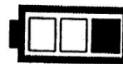
6.1 The lithium battery has an expected lifespan of up to five years allowing for two hours continuous use each day. The battery symbols indicate power status.



Battery  
operational



Battery  
operational



Battery  
operational



Battery  
operational

6.2 For best results, return instrument to address overleaf for replacement and service check.

## 7.0 TECHNICAL DATA

Sensor	Infrared Probe
Waterproof rating	IP65
Measuring range	-50 ... +250°C
Measuring rate	0.5 seconds minimum
Operating temperature	-25 ... +50°C
Storage temperature	-30 ... +70°C
Resolution	0.1°C
Accuracy	±0.4°C ±1 digit
Battery	2 x AAA (Micro)
Battery life	5 Years
Automatic power of	Two hours delay
Dimensions	169.5 x 44 x 23 mm without probe
Weight	140g approximately

## 8.0 SERVICE

- 8.1 For service and repairs please send the unit to the address below in the box provided for your use. DO NOT attempt to open the case. The instrument contains delicate electronic components and opening the case may invalidate your warranty.

Address: Service Centre, Klipspringer Ltd, Rynor House, Farthing Road, IPSWICH, IP1 5AP, UK.

## 9.0 CLEANING

- 9.1 Cleaning is best performed by wiping with a soft cloth and mild soap solution. Do not use solvents.

## **10.0 CALIBRATION**

- 10.1 In order to guarantee optimum precision, we recommend that this instrument should be laboratory calibrated each year.
- 10.2 You are invited to register for our automatic recalibration recall. Klipspringer will automatically notify you of the due date for calibration in approximately 11 months' time.
- 10.3 The thermometer will be returned within one week of receipt accompanied by a certificate of calibration.
- 10.4 Klipspringer is a UKAS accredited laboratory for temperature calibration (0764) in accordance with International Standard ISO/IEC 17025. This service is provided to cover almost any brand of hand-held probe thermometer.
- 10.5 Klipspringer will automatically notify you of the due date for calibration.

## **11.0 ASSURANCE**

- 11.1 With considerate use and Klipspringer's support, the unit will give years of accurate service.



