

User Manual




Dual Thermometer - Infrared and Folding Probe

Product Code: IRTLC750SV




Klipspringer

Compliance with confidence

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Dual Infrared-
/Foldbackthermometer TLC 750i
Operating manual

GB

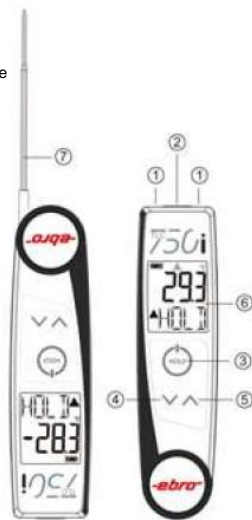
1. Bevor Sie mit dem Gerät arbeiten

- Please read this operating manual
- This way you get used to the device, get to know its functions and parts, learn important information for the start-up and how to use the device, as well as what to do in case of disturbance.
- By considering this manual, you avoid damage to the device as well as endangering your warranty rights due to incorrect use. We do not assume liability in case of incorrect use..
- Take special note of the safety information!
- Keep this manual!

2. Overview

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.

- 1..... Two laser pointers
- 2..... Infrared lens
- 3..... Button 1 / Infrared measurement
- 4.....Button 2
- 5..... Button 3
- 6..... Display
- 7..... Core temperature probe



Dual Infrared-
/Foldbackthermometer TLC 750i
Operating manual

3. Safety Information

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°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.

4. Safety Measures

Protect the TLC 750i infrared thermometer from the following:

- Electromagnetic fields created by electronic welding devices and induction heating equipment
- Static electricity
- "Thermal shock "caused by large and sudden temperature changes; always allow device to stabilize for 30 minutes before use.

Do not keep device near hot or very cold objects.

Dual Infrared-
/Foldbackthermometer TLC 750i
Operating manual

5. Operation

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.

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.

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.

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.

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, and confirmed with buton 1.

Dual Infrared-
/Foldbackthermometer TLC 750i
Operating manual

UNIT: °C or °F
LASP: Laserpointer 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.

**6. What to do, when...
... the following error messages appear in the display:**

- temperature over +250°C
- temperature below -50°C
- ambient temperature has changed too quickly
- ambient temperature is either below 0°C or above +50°C..

Remedy: Put device in location within prescribed working temperature range and wait approx. 30 min.

- Other potential errors

Remedy: Put the device to its original state by removing the battery from the battery compartment, wait approx. 1 minute, then re-insert the battery and switch on the device.

... the device cannot be switched on:
Cause: Battery is dead or has not been inserted.

Remedy: Switch battery or insert a new one.

7. Batteriedisplay

- Battery OK --> Measurement possible
- Battery voltage low --> Replace battery soon --> Measurement will be possible
- Battery dead--> Measurement impossible

Dual Infrared-
/Foldbackthermometer TLC 750i
Operating manual

For the battery change, switch off the device. Pull out the rubber gasket at the back of the housing. Loosen the screw and open the battery compartment. Change the two old AAA batteries with two new AAA batteries. Close the compartment, fasten the screw and put back the rubber gasket. Dispose of the batteries according to your national laws.

8. Cleaning and Maintenance

Cleaning the lens

Blow loose particles out using clean compressed air. Next carefully remove any remaining contaminants using a soft brush. Carefully wipe the surface with a damp (!) wad of cotton. Moisten the wad of cotton only with pure water!

DO NOT USE ANY solvents to clean the lens.

Cleaning the housing

Clean the device with a soapy solution and sponge or using a soft towel. The sponge or towel should only be moist and not dripping wet!

DO NOT submerge the device in the water.

DO NOT USE ANY solvents such as acetone!

9. Disposal

If the device becomes no longer fit for purpose, it must be disposed of in a suitable, environmentally-friendly manner. Do not, under any circumstances, simply dispose of it in domestic garbage. Recycle it according to your national laws.

10. Norms

This device complies to the norm EN13485

suitability: S, T (Storage, Transport)
Environment: E
Accuracy class: 0.5

According to EN13485 a regular calibration according to EN13486 is required.

Dual Infrared-
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Operating manual

11. Technical data

Measuring range -50 to +250°C
Accuracy (at +25°C ± 1°C)
Infrared:

- 50°C ... -30.1°C ±4.0°C
- 30°C ... -18.1°C ±2.5°C
- 18°C ... -0.1°C ±1.5°C
- 0°C ... +64.9°C ±1.0°C
- 65°C ... +250°C ±2.0°C oder 2% (the larger value applies)

Contact-probe:
± 0.5 °C in a measuring range of -30.0 to +99°C;
otherwise ±1.0°C or 1% (whichever is greater);

Measuring cycle Infrared: 0.7 sec.
Contact probe: 1 sec.
Resolution: 0.1°C
Emissivity 0.95, adjustable
Battery 2 x AAA
Battery life approx. 10 h when used continuously (automatic switching off after 15 sec)
Optics 8:1
Laser Dual laser for showing measuring surface, can be displayed
Wavelength 8.. 14 µm
Working temperature -25°C to +50°C
Storage temperature -30 to +70°C
Dimensions L x W x D 169.5 x 44 x 23 mm
Weight 140 g, including battery
Protection class IP65