

## Infrared Thermometer



### 1. Before you use this product

- Please make sure you read the instruction manual carefully.
- Following and respecting the instructions in your manual will prevent damage to your instrument and loss of your statutory rights arising from defects due to incorrect use.
- We shall not be liable for any damage occurring as a result of non-following of these instructions. Likewise, we take no responsibility for any incorrect readings or for any consequences resulting from them.
- Please take particular note of the safety advice!
- Please keep this instruction manual safe for future reference.

### 2. For your safety

- The device should only be used as described within these instructions.
- Unauthorized repairs, modifications or changes to the product are prohibited and might result in dangerous laser radiation.
- The product is not recommended for taking body temperature.



#### Caution! Risk of injury:

- The product is equipped with a class 2 laser. If the sign on the device is not written in the language of your country, please affix the sign (page 2) onto the device.
- Do not point the laser beam at mirrors or other reflective surfaces. The uncontrolled reflected beam may strike people or animals.
- Do not aim too close at hot or dangerous targets.
- Keep this device and the batteries out of reach of children.
- Small parts can be swallowed by children (under three years old).
- Batteries contain harmful acids and may be hazardous if swallowed. If a battery is swallowed, this can lead to serious internal burns and death within two hours. If you suspect a battery could have been swallowed or otherwise caught in the body, seek medical help immediately.
- Batteries must not be thrown into a fire, short-circuited, taken apart or recharged. **Risk of explosion!**
- Low batteries should be changed as soon as possible to prevent damage caused by leaking.
- Never use a combination of old and new batteries together, nor batteries of different types.
- Avoid contact with skin, eyes and mucous membranes when handling leaking batteries. In case of contact, immediately rinse the affected areas with water and consult a doctor.



#### Important information on product safety!

- Do not expose the device to extreme temperatures, vibrations or shocks.
- Protect the unit from large or abrupt ambient temperature changes.
- Do not leave the unit near objects of high temperature.
- Do not immerse the unit in water. Water can penetrate and cause malfunction. Protect it from moisture.
- Check the housing before using the device. Do not use the device if it seems to be damaged. Check for cracks or missing plastic parts.
- Steam, dust, smoke, etc., can prevent accurate measurement by obstructing the unit's optics.



#### EMC/RFI

- Protect the unit from EMI (Electro Magnetic Interference) from induction heaters and microwave ovens and Electro Static Discharge. Readings may be affected if the unit is operated within a radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

## Infrared Thermometer



### 3. Getting started

- Open the battery compartment.
- The battery compartment is on the inside of the handle. Open the battery compartment cover downwards.
- Insert two new batteries 1,5 V AAA. Ensure that the batteries polarity is correct.
- The device will alert you with a beep.
- Close the battery compartment again. The cover is properly inserted in the housing, as soon as a click is heard.

### 4. Use

- Press the measuring button on the inside of the handle to turn on the device.
- The device will alert you with a beep.
- All segments will be displayed for a short moment.
- The backlight is automatically activated (default). The symbol appears on the display.
- Press the button to turn off or turn on the backlight. The symbol disappears or appears on the display.
- The laser is automatically activated (default). The symbol appears on the display.
- Press the button to deactivate or activate the laser. The symbol disappears or appears on the display.
- As long as you keep the measuring button pressed, the display shows "SCAN" and the measured temperature.
- With the laser the measuring point can be focused exactly.
- Release the measuring button.
- On the display appears HOLD.
- The latest measured temperature stays for a few seconds on the display.
- When the device is not used, it will automatically switch off after a few seconds.
- Press the °C/°F button to change the temperature display from °C (default) to °F.

### 5. Distance, Spot Size, and Field of View

- As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger a ratio D:S = 12:1 (e.g. 120 cm distance = 10 cm spot size). To get the most accurate temperature reading, aim at the target as near as possible.
- Should the distance be too great, there is a risk that the temperature has also been taken outside the aimed target.

#### Please take note of the following:

- Not recommended for use in measuring shiny or polished metal surfaces (stainless steel, aluminium, etc.).
- The unit cannot measure through transparent surfaces such as glass or plastic. It will measure the surface temperature of the glass instead.

### 6. Care, maintenance, battery replacement

- The sensor lens is the most delicate part of the thermometer. Please protect the sensor part from dirt.
- Clean your instrument with a soft damp cloth. Do not use solvents or scouring agents.
- Remove the batteries if you do not use the product for a long period of time.
- Change the batteries, when the battery symbol appears on the display.
- Confirm the device is power off before changing the batteries.

**Infrared Thermometer****7. Troubleshooting**

Problems	Solutions
No display	<ul style="list-style-type: none"> <li>→ Switch on the device – press the measuring button</li> <li>→ Ensure that the batteries polarity is correct</li> <li>→ Change the batteries</li> </ul>
Display HI/LO	→ Measured temperature is outside measuring range

**8. Waste disposal**

This product and its packaging have been manufactured using high-grade materials and components which can be recycled and reused. This reduces waste and protects the environment.

Dispose of the packaging in an environmentally friendly manner using the collection systems that have been set up.

**Disposal of the electrical device**

Remove non-permanently installed batteries and rechargeable batteries from the device and dispose of them separately.

This product is labelled in accordance with the EU Waste Electrical and Electronic Equipment Directive (WEEE).

This product must not be disposed of in ordinary household waste. As a consumer, you are required to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, in order to ensure environmentally-compatible disposal. The return service is free of charge. Observe the current regulations in place!

**Disposal of the batteries**

Never dispose of empty batteries and rechargeable batteries with ordinary household waste. They contain pollutants which, if improperly disposed of, can harm the environment and human health. As a consumer, you are required by law to take them to your retail store or to an appropriate collection site depending on national or local regulations in order to protect the environment. The return service is free of charge.

The symbols for the contained heavy metals are:

Cd=cadmium, Hg=mercury, Pb=lead.

**9. Specifications**

Temperature range	-50 °C .... +500°C (- 58°F...+932°F)
Accuracy	-50°C...0°C (-58°F...+32°F) ±3°C (±5°F) 0°C...+500°C (+32°F...+932°F) ±1.5°C (±2.7°F) or ±1,5 % Whichever is greater
Storing temperature	-20°C...+60°C (-4°F...+140°F)
Working temperature	0°C ... +40°C (32°F... 104°F)
Emissivity	0,95 only
Resolution	0,1°C / 0,1°F
Response time	<1 second
Distance to spot size	12 : 1
Repeatability	1 % of the measuring or 1°C
Spectral response	8-14 µm

**Infrared Thermometer**

Power consumption	Batteries 2 x 1.5 V AAA (not included)
Automatic off-function	approx. 8 seconds
Dimensions	39 x 110 x 144 mm
Weight	108 g (instrument only)

TFA Dostmann GmbH & Co.KG, Zum Ottersberg 12, 97877 Wertheim, Germany.

No part of this manual may be reproduced without written consent of TFA Dostmann. The technical data are correct at the time of going to print and may change without prior notice. The latest technical data and information about this product can be found in our homepage by simply entering the product number in the search box.

[www.tfa-dostmann.de](http://www.tfa-dostmann.de)

07/23