

EN

OPERATING MANUAL
INSERTION THERMOMETER



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Notes regarding the operating manual

Symbols



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



Info

Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the operating manual must be observed.

You can download the current version of the operating manual and the EU declaration of conformity via the following link:



BT20



<https://hub.trotec.com/?id=43281>

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!



Warning

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.

Save all warnings and instructions for future reference.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Do not use the device in potentially explosive rooms.
- Do not use the device in aggressive atmosphere.
- Protect the device from permanent direct sunlight.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Do not open the device.
- Observe the storage and operating conditions as given in the Technical data chapter.

Intended use

Only use the device for temperature measurements by means of the temperature probe within the measuring range specified in the technical data.

To use the device for its intended use, only use accessories and spare parts which have been approved by Trotec.

Improper use

This device is not suited for measuring the body temperature in humans or animals. The device must not be pointed at people. Do not use the device in potentially explosive atmospheres, for measurements in liquids or at live parts. Trotec accepts no liability for damages resulting from improper use. In such a case, any warranty claims will be voided. Any unauthorised modifications, alterations or structural changes to the device are forbidden.

Personnel qualifications

People who use this device must:

- be aware of the dangers that occur when handling food at high temperatures, e.g. frying or grilling.
- have read and understood the operating manual, especially the Safety chapter.

Residual risks



Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!



Warning

Risk of suffocation!
Do not leave the packaging lying around. Children may use it as a dangerous toy.



Warning

The device is not a toy and does not belong in the hands of children.



Warning

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!



Caution

Keep a sufficient distance from heat sources.

Note

To prevent damages to the device, do not expose it to extreme temperatures, extreme humidity or moisture.

Note

Do not use abrasive cleaners or solvents to clean the device.

Information about the device

Device description

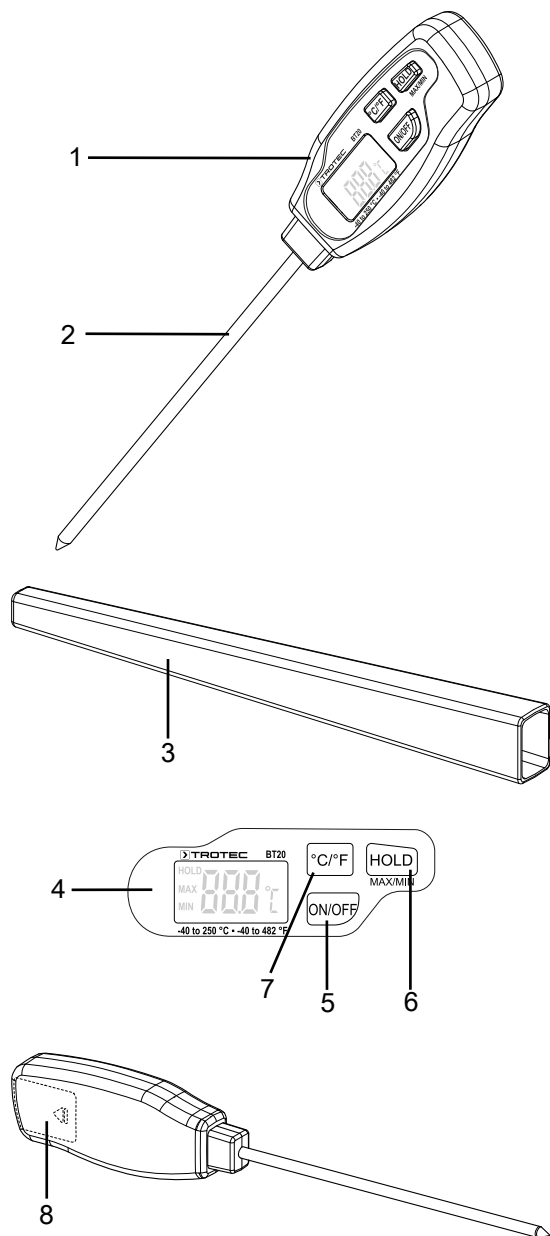
The device BT20 is a contact thermometer for core temperature measurements.

The wide measuring range of -40 °C to +250 °C renders it suitable for manifold measuring applications in the industry as well as in the craft and hobby sector.

The device comes equipped with a long, thin stainless steel measuring tip permitting core temperature measurements within 2 seconds.

Owing to a soft-touch protective cover the plastic housing is additionally protected from dirt and external influences such as splashing water.

Device depiction



No.	Designation
1	Housing
2	Insertion rod
3	Protective cover
4	Display
5	ON/OFF button
6	HOLD button
7	°C/°F button
8	Battery compartment

Technical data

Parameter	Value
Model	BT20
Article number	3.510.250.001
Weight (packaging excluded)	40 g
Dimensions (length x width x height)	211 mm x 19 mm x 32 mm
Temperature	
Measuring range	-40 °C to +250 °C or -40 °F to 482 °F
Accuracy	±2 °C or ±3.8 °F
Measuring range resolution	0.1 °C or 0.1 °F
Response time	2 s
Power supply	
Battery (internal)	1 x 1.5 V, LR44

Scope of delivery

- 1 x Device BT20
- 1 x LR44 battery
- 1 x Quick guide
- 1 x Protective cover

Transport and storage

Note

If you store or transport the device improperly, the device may be damaged.
 Note the information regarding transport and storage of the device.

Transport

The manufacturer packed the device to the best of his abilities to protect it against transport damage.

Storage

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- protected from dust and direct sunlight
- The storage temperature is the same as the range given in the Technical data chapter.
- Remove the batteries from the device.

Operation

Start-up

- ✓ Remove the protective cover (3) before you use the device.
- 1. Press the *ON/OFF* button (5).
 - ⇒ The display will be switched on and the device ready for operation.
- 2. Put the insertion rod at least halfway into the material to be tested.
 - ⇒ The current temperature will be indicated on the display (4).

The device switches off after approx. 20 minutes so as to save the batteries.

Switching between °C and °F indication

Press the °C/°F button (7) to change the temperature unit.

Holding the temperature value

1. Press the *HOLD* button (6) once. *HOLD* appears on the display.
 - ⇒ The previously measured temperature value will be held on the display.
2. To indicate the current temperature, press the *HOLD* button (6) three times.

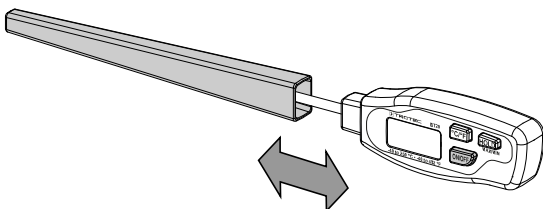
Indication of maximum and minimum value

1. To call up the maximum temperature, press the *HOLD* button (6) twice.
 - ⇒ *MAX* appears on the display.
2. Press the *HOLD* button (6) again to call up the minimum temperature.
 - ⇒ *MIN* appears on the display.
3. Press the *HOLD* button (6) again to display the currently temperature value.

Switch-off

Press the *ON/OFF* button (5). The device is switched off.

Put the protective cover back onto the device.



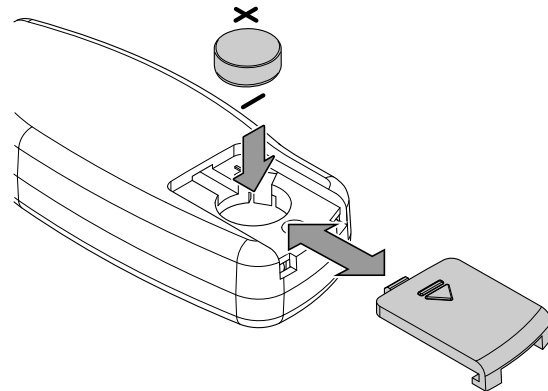
Maintenance and repair

Battery change

A battery change is required, when the displayed values are difficult to read or the device can no longer be switched on.

In order to exchange the battery, remove the housing's protective cover.

Open the cover of the battery compartment (8). Remove the old battery. Insert a new battery.



Cleaning

Clean the device with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Do not use any sprays, solvents, alcohol-based cleaning agents or abrasive cleaners, but only clean water to moisten the cloth.

The device and its components are **not** dishwasher-safe.

Repair

Do not modify the device or install any spare parts. For repairs or device testing, contact the manufacturer.

Disposal



The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. For further return options provided by us please refer to our website www.trotec24.com.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.



In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.