Manuals+ — User Manuals Simplified.

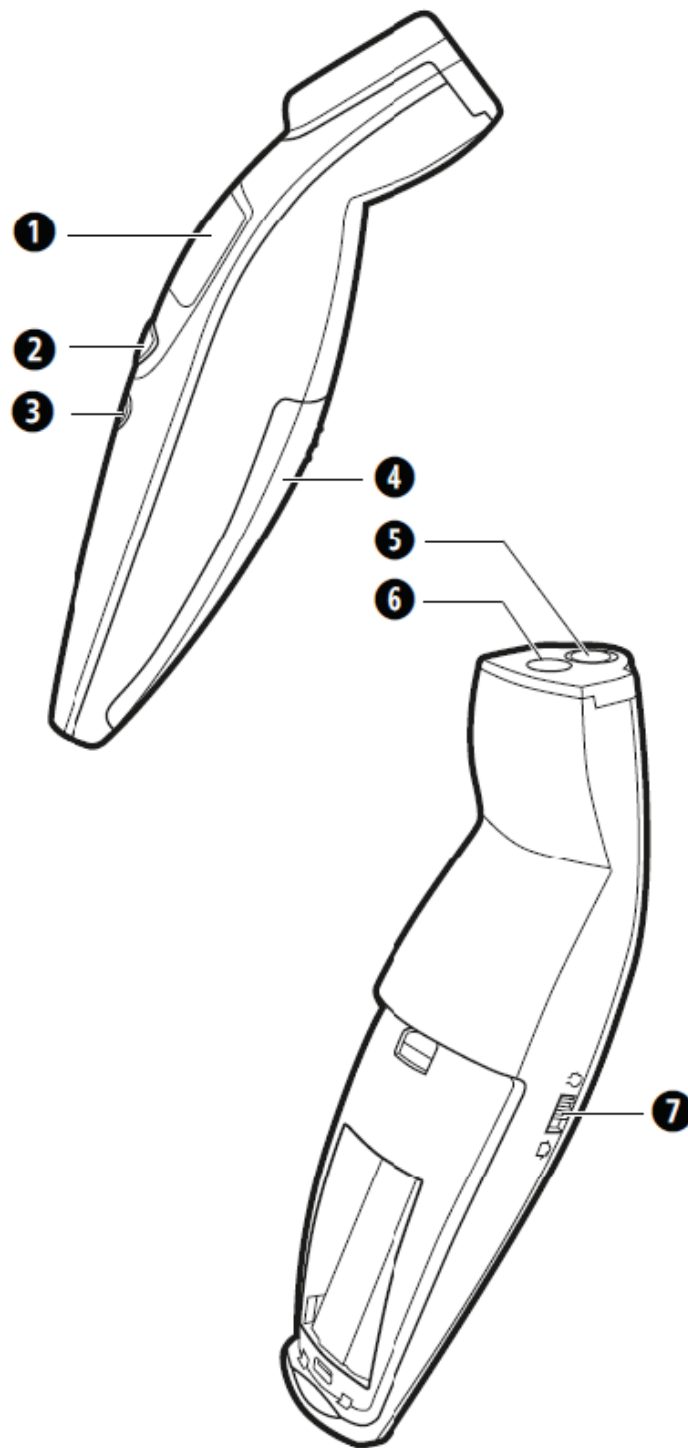# Medisana Thermometer Multi Functional Thermometer FTN User Manual

Contents

Medisana Thermometer Multi Functional Thermometer FTN

Unit and controls

1. Backlit LCD display
2. START button (Starts reading and calls up stored data)
3. ON/OFF-Taste (I/0)
4. Battery compartment
5. Light
6. Sensor
7. Selector switch (Measuring body / object temperature)

Safety Information

IMPORTANT INFORMATION! RETAIN FOR FUTURE USE!
Read the instruction manual carefully before using this device, especially the safety instructions, and keep the instruction manual for future use. Should you give this device to another person, it is vital that you also pass on these instructions for use.

- Only use the unit for the specific purpose described in the instruction manual. Any misuse will void the warranty.
- The unit is not designed for commercial use.
- Using this thermometer is no substitute for consulting a doctor.
- The thermometer and the patient must remain in a stable environment for at least 30 minutes before measuring the temperature.

- This device is not designed to be used by persons (including children) with limited physical, sensory or mental abilities, or by persons with insufficient experience and/or knowledge, unless under observation by a person responsible for their safety, or unless they have been instructed in the use of the device.
- Children must be supervised to ensure that they do not play with the device.
- The temperature in the forehead and temple area differs from the internal temperature, which is taken orally or rectally.
  Vasoconstriction, an effect which constricts the blood vessels and cools the skin, can occur during the early stages of a fever.
  In this case, the temperature measured by this thermometer may be unusually low. If the measurement therefore does not match the patient's own perception or is unusually low, repeat the measurement every 15 minutes. As a reference, you can also measure the internal body temperature using a conventional oral or rectal thermometer.
- A control measurement using a conventional thermometer is recommended in the following cases:
  - If the reading is surprisingly low
  - For new-born infants up to 100 days old
  - For children under three years of age who have a weakened immune system or who react unusually in the presence or absence of fever
  - If you are using the thermometer for the first time or want to familiarise yourself with it
- Babies' skin reacts very quickly to the ambient temperature. Therefore, do not take their temperature with this thermometer during or after breastfeeding, because the skin temperature may then be lower than the internal body temperature.
- If a fault occurs or the unit is damaged, do not attempt to repair the unit yourself, as this will void the warranty. Contact your dealer and only have repairs carried out by authorized service partners.
- Do not modify and / or open the device. It contains small parts which might be swallowed by children.
- Do not use the thermometer if it is damaged.
- Do not use the thermometer in damp environments. Do not immerse the thermometer in water or other liquids. It is not watertight.
- This device comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the «Technical Specifications» section.
- Do not shake or tap the thermometer. Do not drop it.
- Protect the device from direct sunlight, extremely high or low temperatures, dirt and dust.
- If the thermomter is not going to be used for a long period, remove the battery.

WARNING The measurement results obtained by this thermometer do not represent a diagnosis and do not replace the consultation of a doctor, who should always be consulted in case of doubt.
Items supplied and packaging
Please check first of all that the device is complete and is not damaged in any way. In case of doubt, do not use it and contact your dealer or your service centre. The following parts are included:

- 1 medisana Infrared multifunctional thermometer FTN
- 1 Storage box
- 2 Batteries (AAA type, LR03) 1,5V (Already inserted!)
- 1 Instruction manual
  The packaging can be reused or recycled. Please dispose properly of any packaging material no longer

required. If you notice any transport damage during unpacking, please contact your dealer without delay.

WARNING Please ensure that polythene packing is kept away from the reach of children!

Risk of suffocation
Taking a temperature reading – quickly and accurately
The medisana infrared multifunctional thermometer allows precise, contact-free measurement of body temperature (at a distance of approximately 5 cm). The temperature is taken above the eyebrow between the forehead and the temple. The value of the energy radiated there is measured and converted to a temperature value. The reading is displayed within 1 seconds. This enables you, for example, to take babies' temperature without disturbing their sleep. The new infrared sensor technology used in the device also allows the temperature to be displayed as if it were taken orally, rectally or from the underarm.
Additional function: Apart from measuring body temperature, the Infrared multifunctional thermometer can also be used to measure the temperature of objects (e.g. fluids, surfaces, ambient temperature). The temperature range for this function is between 0° and 100° Celsius.
Operation – Getting started Removing / inserting battery: The medisana FTN infrared thermometer comes with the batteries installed. However, if the symbol ▼ appears in the LC display after a certain period of use, you must replace them with two new 1.5 V batteries (LR03, AAA). Removal: Take the battery compartment cover 4 off. Take out the batteries. Insertion: Put in two new 1.5 V batteries (LR03, AAA). Make sure the batteries are the right way around (see the diagram in the battery compartment). Put the battery compartment cover back on.

BATTERY SAFETY INFORMATION

- Do not disassemble batteries!
- Clean the battery and device contacts if necessary before putting in the batteries!
- Remove discharged batteries from the device immediately!
- Increased risk of leakage, avoid contact with skin, eyes and mucous membranes! If battery acid comes in contact with any of these parts, rinse the affected area with copious amounts of fresh water and seek medical attention immediately!
- If a battery has been swallowed seek medical attention immediately!
- Insert the battery correctly, observing the polarity!
- Keep the battery compartment well sealed!
- Remove the battery from the device if it is not going to be used for an extended period!
- Keep batteries out of childrens reach!
- Do not attempt to recharge batteries! There is a danger of explosion!
- Do not short circuit! There is a danger of explosion!
- Do not throw into a fire! There is a danger of explosion!
- Keep unused batteries in their packaging away from metal objects in order to prevent short circuiting!
- Do not throw used batteries into the household refuse; put them in a hazardous waste container or take them to a battery collection point, at the shop where they were purchased!

Settings

The FTN thermometer displays its readings as a reference to temperatures taken using conventional thermometers. You can choose between oral (in the mouth), axillary (under the armpit) and rectal (in the anus).
1. Switch on the device using the ON/OFF button 3. The selector switch 7 is in the fever measurement position / body mode (top /). The set reference location is displayed by a corresponding flashing symbol, (mouth), (armpit) and (anus).
2. Wait until the °C symbol flashes, indicating that the thermometer is ready.
3. Move the switch 7 down and then up again. The 3 symbols of the reference part of the body are shown in the

display for approx. 3 seconds. The set symbol flashes, while the other ones remain unchanged.

4. Press the START button 2 to switch between the three symbols within the 3 seconds. As soon as the change is registered, you will hear a short beep.

5. The selected symbol flashes. The setting is completed after 5 seconds and the thermometer is ready for the measurement.

Before use Acclimatise the thermometer to the temperature of the room: For an accurate reading of a patient's temperature, their body must first acclimatise to the temperature of the room where the measurement will be made. The same applies to the Infrared multifunctional thermometer FTN. When taken somewhere else, it automatically adjusts itself to the new environment. The thermometer takes a certain amount of time to equalise its own temperature to that of the room. This depends on the difference between the two temperatures and can take more than 30 minutes. Precise readings can only be taken once this process is completed.

Measuring body temperature

NOTES For the most accurate readings:

- Do not take a baby's temperature during or directly after breastfeeding.
- Patients should not drink or eat directly before or during a measurement, and they should avoid any physical exertion.
- Clean the area where you are taking the temperature and remove any dirt, hairs or sweat before moving the sensor to the measuring position.
- Do not remove the thermometer from the measuring position until it has beeped to signal the end of the
- reading.
- If the sensor becomes dirty during or after a reading, clean it with a cotton bud dipped in cleaning alcohol before putting the thermometer away.
- Always take the temperature in the same place, because the readings will vary in different environments.

1. Move the selector switch 7 to the top position to select body temperature measurement mode .
2. Press the ON/OFF button 3. The LC display 1 is activated. The thermometer performs a self-test, where all the display symbols are shown in succession.
3. Finally, the last registered reading is displayed along with the M symbol (M = memory) for 2 seconds.
4. When you hear a short beep and the symbol for the measuring units °C is shown along with the symbol for the reference body location, the thermometer is ready for use.
5. To begin the measurement, point the sensor 6 at the middle of the patient's forehead at a distance of no more than 5 cm. If the patient's forehead has hair, sweat or dirt on it, remove this first so that the reading is as accurate as possible.
6. Press and hold the START button 2. The blue light 5 switches on to illuminate the area where you are taking the measurement.
7. Now move the thermometer smoothly over the patient's eyebrow from the forehead to the temple to measure the maximum temperature. While the sensor scans this area, you will hear slow beeps at first. As soon as the thermometer measures higher temperatures, the beeps speed up. The sequence of beeps then slows down to indicate that the maximum temperature has been recorded.
8. As soon as this happens, release the START button . – If the reading is below the fever level, you will hear a long beep and the backlight of the display will be green. – If the reading is at or above the fever level, you will hear 10 short beeps, and the backlight of the display will be red to indicate that the patient may have a fever.
9. When the °C symbol flashes again after 2 seconds, the thermometer is ready for another reading.

NOTE The body temperature which is classed as a fever (fever level) varies depending on body location where it is measured: Anus (rectal) 37,8 °C; Mouth (oral) 37,5 °C; Armpit (axillary) 37,2 °C

Measuring the temperature of an object

1. Move the selector switch 7 to the bottom position to select object temperature measurement mode .
2. Press the ON/OFF button 3. The LC display 1 is activated. The thermometer performs a self-test, where all the display symbols are shown in succession.
3. Finally, the last registered reading is displayed along with the M symbol (M = memory) for 2 seconds.
4. When you hear a short beep and the the symbol for the measuring unit °C flashes, the thermometer is ready to take the measurement.
5. To begin the measurement, point the sensor 6 at the middle of the object at a distance of no more than 5 cm. If it has water, dust or dirt on it, remove this first so that the reading is as accurate as possible.
6. Press the START button 2. The blue light 5 switches on and the temperature is measured. The measurement is accompanied by a series of beeps.
7. Release the START button 2 after a few seconds. A long beep indicates the end of the measurement. Remove the sensor from the measuring position. The display shows the measured temperature.

Error messages

The measured temperature is too high. H appears in the display if the reading is above 42.2 °C (body mode) or 100 °C (object mode).	The measured temperature is too low. L appears in the display if the reading is below 34 °C (body mode) or 0 °C (object mode).	The ambient temperature is too high. The ambient temperature is above 40 °C (object mode)	The ambient temperature is too low. The ambient temperature is below: 15 °C (body mode) 5 °C (object mode)	Error indication in the display. A malfunction has occurred. You hear 3 short beeps.	Blank display. Check the position of the battery.	Flat battery indicated. Insert a new battery.

Cleaning and maintenance

- The sensor 2 is the most delicate part of the device. Protect it from dirt and damage. Clean the sensor with a cotton bud dipped in warm water or 70% isopropyl alcohol.
- Do not immerse the thermometer in water or any other liquid. It is not watertight.
- To clean the thermometer, use a soft cloth slightly dampened with mild soapy water or 70% isopropyl alcohol. Do not let water get into the unit. Only use the unit again when completely dry.
- Never use aggressive cleaning agents, thinners, benzine or tough brushes.
- Take care not to scratch the lens of the sensor, the display or the housing.

- Do not use or store the unit in an environment where the ambient temperature or humidity is too high or too low (see operating conditions in the "Technical specifications" section), in direct sunshine, in the vicinity of static electricity or in a dusty environment.
- Remove the batteries if you do not wish to use the unit for an extended period of time. Otherwise there is a danger that the batteries may leak.
- If the thermometer is used as described in these instructions, no regular maintenance or calibration is required.

Disposal

This product must not be disposed of together with domestic waste. All users are obliged to hand in all electrical or electronic devices, regardless of whether or not they contain toxic substances, at a municipal or commercial collection point so that they can be disposed of in an environmentally acceptable manner. Please remove the battery before disposing of the device/unit. Do not dispose of old batteries with your household waste, but at a battery collection station at a recycling site or in a shop. Consult your municipal authority or your supplier for information about disposal.

Technical specifications

Name and model:	**medisana** Infrared multifunctional thermometer **FTN**
Display system:	digital display (LCD)
Power supply:	3V $=$ (2 batteries 1.5 V)
Measuring range:	Body mode 34-42.2°C; Object mode 0-100°C (32-212°F)
Accuracy of measurement:	34 °C to 35.9 °C: ±0.3 °C; 36 °C to 39 °C: ±0.2 °C; 39.1 °C to 42.2 °C: ±0.3 °C
(laboratory readings):	(under operating conditions)
Clinical repeatability:	0,18°C
Duration of measurement:	approx. 1 second
Memory capacity:	up to 30 readings
Automatic switch-off:	approx. 3 minutes after the last measurement
Operating temperature:	Body mode: 15 - 40°C; Object mode: 5 - 40°C
Storage/transport temperature:	-20°C to +50°C
Dimensions:	approx. 147 x 38 x 21 mm
Weight:	approx. 48 g including battery
Article No.:	76120
EAN Code:	40 15588 76120 1

The CE-mark of this device refers to the EC-directive 93/42/EEC MDD. The unit is designed for home use only. For commercial use, a metrological inspection must be carried out once every year. This calibration will be charged for and can be carried out by an appropriate authority or an authorised service centre – in accordance with the regulations for users of medical equipment.

Electromagnetic compatibility: The device complies with the EN 60601-1-2 standard for electromagnetic compatibility. Details on this measurement data can be found at the end of this manual. In accordance with our policy of continual product improvement, we reserve the right to make technical and optical changes without notice.

The current version of this instruction manual can be found under **www.medisana.com**
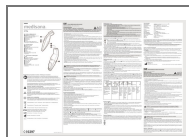
Warranty and repair terms

Please contact your dealer or the service centre in case of a claim under the warranty. If you have to return the unit, please enclose a copy of your receipt and state what the defect is. The following warranty terms apply:

1. The warranty period for medisana products is three years from date of purchase. In case of a warranty claim, the date of purchase has to be proven by means of the sales receipt or invoice.
2. Defects in material or workmanship will be removed free of charge within the warranty period.
3. Repairs under warranty do not extend the warranty period either for the unit or for the replacement parts.

4. The following is excluded under the warranty:

   a. All damage which has arisen due to improper treatment, e.g. nonobservance of the user instructions.

   b. All damage which is due to repairs or tampering by the customer or unauthorised third parties.

   c. Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre.

   d. Accessories which are subject to normal wear and tear.

5. Liability for direct or indirect consequential losses caused by the unit are excluded even if the damage to the unit is accepted as a warranty claim. medisana GmbH

   Jagenbergstr. 19

   41468 NEUSS, GERMANY The service centre address is shown on the attached leaflet.

medisana.

Documents / Resources

Medisana Thermometer Multi Functional Thermometer FTN [pdf] User Manual
Medisana, FTN, Thermometer, Multi Functional, Thermometer

References

- ꭒ **medisana – Your health in good hands**