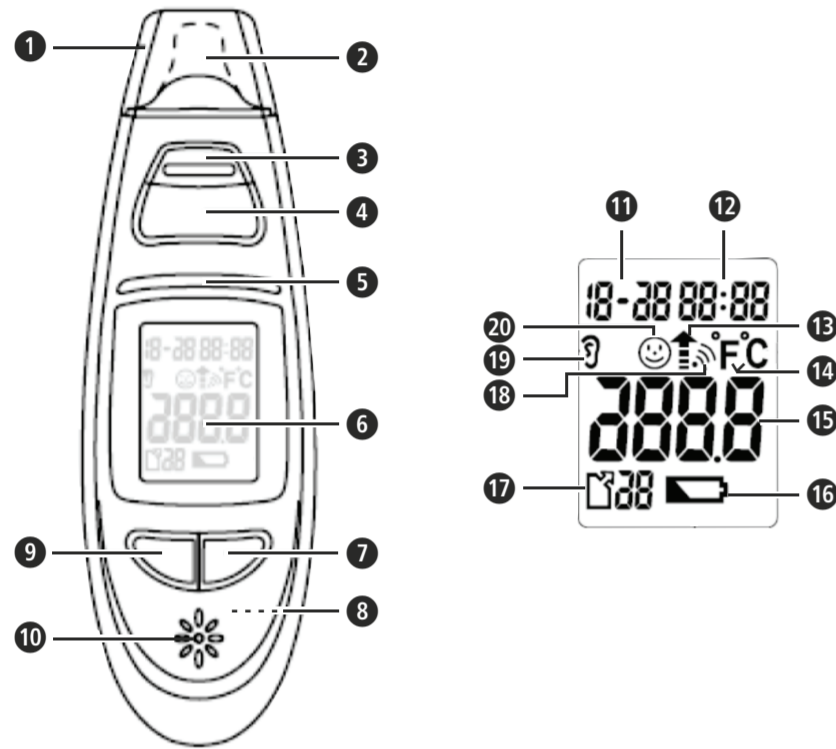


Infrared thermometer TM 750

Instruction Manual
Please read carefully!



GB Unit and controls



Explanation of symbols



IMPORTANT
Follow the instructions for use!
Non-observance of these instructions can result in serious injury or damage to the device.



WARNING
These warning notes must be observed to prevent any injury to the user.



CAUTION
These notes must be observed to prevent any damage to the device.



NOTE
These notes give you useful additional information on the installation or operation.



Device classification: type BF applied part



LOT number



Manufacturer



Date of manufacture

GB



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.



INTENDED USE:

The medisana Infrared thermometer TM 750 is suitable to measure the body temperature of humans. The measurement is carried out in the ear or on the forehead. Additionally the thermometer is suitable to measure the temperature of objects in the range of 0°C to 100°C (32°F - 212°F).

CONTRAINDICATION:

The device is not suitable for measuring the temperature of infants up to 6 months of age

Safety Information

- 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 re-recommended in the following cases:
 - If the reading is surprisingly low;
 - 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 familiarize yourself with it.
- Babies' skin reacts very quickly to the ambient temperature. There-fore, 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 use the thermometer if it is damaged.
- Do not open up the device. It contains small parts which might be swallowed by children.
- Do not use the thermometer in damp environments. Do not immerse the thermometer in water or other liquids. It is not watertight.
- For cleaning, follow the instructions in 4.1 Cleaning and maintenance.
- 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 thermometer is not going to be used for a long period, remove the batteries.
- Measurements in the ear should always be carried out in the same ear.
- Do not measure on hurt or dirty parts of the body.
- The use of the thermometer by different persons may lead to infections with contagious diseases. Consult your doctor.

Thank you very much for your confidence and congratulations!
By purchasing the Infrared thermometer TM 750, you have acquired a high-quality product by **medisana**. To ensure the best results and long-term satisfaction with your **medisana Infrared thermometer TM 750**, we recommend that you read the following operating and maintenance instructions carefully.

Unit and LCD display

- Sensor cover
- Sensor
- Button for Forehead measurement mode
- Button for Ear measurement mode
- Indicator LED
- Backlight LCD display
- SET -button
- Battery compartment (on backside)
- Memory -button
- Beeper
- Date
- Time
- Symbol for continuous temperature measurement
- Measurement unit (°C or °F)
- Measurement result
- Battery exchange symbol
- Memory display
- Surface temperature measurement mode
- Ear measurement mode
- Forehead measurement mode

Items supplied and packaging

- The following parts are included:
- 1 **medisana** Infrared thermometer **TM 750**
 - 2 Batteries (AAA type, LR03) 1.5V
 - 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!

Useful information on taking temperature with the infrared thermometer TM 750

What is fever?

Our normal body temperature is between 36°C (96.8°F) and 37.5°C (99.5°F). Fluctuations are quite normal, depending on time of day and the body's condition, for example in the female menstruation cycle. However, when body temperature rises above 38°C (100.4°F), the phenomenon is known as fever. Fever often occurs in the case of infections, and is a sign that the body's immune system is working overtime. This perfectly normal reaction to foreign bodies, germs and microorganisms should be checked at regular intervals. If the fever should exceed 39°C (102.2°F) and not fall again within 1 to 2 days, you should definitely contact your doctor.

A fever is often associated with fatigue, pains in the limbs, shivering and chills. The course of an illness can be best monitored by taking a temperature reading 2 to 3 times a day at 4 to 6 hour intervals. Always take the temperature at the same place and on the same part of the body. If you have to take the temperature several days in succession, always do it at approximately the same time of day so that the results are comparable.

Taking a temperature reading - quickly and accurately!

The **medisana Infrared thermometer TM 750** allows a precise measurement of body temperature. The temperature is taken between the forehead and the temple or alternatively in the ear. The reading is displayed within a few seconds.

Additional function

Apart from measuring body temperature, the Infrared thermometer TM 750 from medisana 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°C (32°F - 212°F).

Getting started

Removing / inserting batteries

For correct function, the included 2 batteries 1.5V (LR03,AAA) need to be inserted. When the battery exchange symbol appears in the display after a longer time of usage, the batteries should be replaced soonest. When the battery exchange symbol appears together with "Lo" or nothing at all appears in the display , the batteries need to be replaced immediately.

Remove:

Remove the lid of the battery compartment and take out the batteries.

Insertion:

Put in two new 1.5V batteries of type LR03 / AAA. Make sure the batteries are the right way around (see the diagram in the battery compartment). Put the battery compartment lid back.

WARNING 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!
- Replace all of the batteries simultaneously!
- Only replace with batteries of the same type, never use different types of batteries together or used batteries with new ones!
- Insert the batteries correctly, observing the polarity!
- Keep the battery compartment well sealed!
- Remove the batteries from the device if it is not going to be used for an extended period!
- Keep batteries out of children's reach!
- Do not attempt to recharge these 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!

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 thermometer TM 750**. 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 processed if completed.

Setting the unit of measure, the time and the date:

When the thermometer is used for the first time or after a battery change, the unit of measure, the time and the date must first be set. If you want to return to the setting mode later on, press and hold the SET -button for approx. 5 seconds, when device is switched on. After the self-test (where all the display symbols are shown in succession in the display) two short beeps can be heard. Now you adjust the unit of measure (°C or °F) with the SET -button . Press the Memory-button to confirm the setting. Use the same procedure (SET -button to adjust a value and Memory-button to confirm) for setting the year, month, day, hour and minute. After the last press on the Memory-button the display shows "OFF" and then the device with switch off automatically.

Information on measuring temperature

- The sensor of the thermometer must be kept clean and intact at all times in order to guarantee that the measurements are accurate.
- Ear wax affects the measuring accuracy. If necessary, clean your ear and the sensor tip of the thermometer before measuring in order to avoid erroneous measurements.
- Before taking a measurement on the forehead, clean the area and remove any dirt, sweat or cosmetics before moving the sensor to the measuring position as otherwise erroneous results could be measured.
- Do not measure your temperature immediately after eating, training or bathing. Wait for half an hour.
- Do not take successive measurements at intervals of less than one minute. If you have to take your temperature at shorter intervals, the results may fluctuate slightly.
- The human body temperature fluctuates with a natural range. There is no such thing as a standard body temperature.
- Measure and record your body temperature on normal days. This will allow you to detect a fever more easily.

- In order to make an accurate measurement in the ear, the sensor must be directed at the eardrum and be inserted far enough into the ear canal.
- Some people will have different reading for the right and left ears. Always measure the same person in the same ear when measuring temperature changes.
- The measurements can also be influenced by your sleeping position. If someone has slept on a particular ear for a considerable period, the temperature will be higher than normal in this ear. In this case, measure in the other ear or wait for a few minutes before measuring.

Measuring the temperature at your forehead



NOTE
Forehead temperatures should only be taken for checking purposes, since the skin temperature at the forehead is easily affected by outside influences, meaning that the measurement can be falsified.

- Switch on the thermometer by shortly pressing the button for forehead measurement mode . The device performs a self-test and emits two short beeps.
- In order to measure the body temperature on the forehead correctly, the sensor cover needs to be put on the sensor.
- Place the measuring head with the sensor (and the put on sensor cover) on a temple and press the button for forehead measurement mode . The symbol for forehead measurement mode appears in the display. Slowly move the thermometer smoothly over the forehead (button still pressed down) to the other temple. Release the button for forehead measurement mode .
- After the temperature has been determined, the device emits a signal tone. The result will be shown in the display .
- If the measurement result is 38,0°C (100.4°F) or higher, the indicator LED lights up in red (= fever alarm). In all other cases the indicator LED lights up in green.
- The measurement result will automatically be saved. After some seconds without pressing any button the device will switch off automatically.

Measuring the temperature in your ear

- To measure the temperature in your ear, first remove the sensor cover .
- Switch on the thermometer by shortly pressing the button for ear measurement mode . The device performs a self-test and emits two short beeps.
- Stretch your ear canal by pulling your ear backwards and upwards and carefully insert the sensor into the ear. For children under the age of 1 year, the sensor should be inserted into the ear canal, while the child is lying flat (e.g. on a bed) with the head slightly turned, so that the ear points upward. Press and hold the button for ear measurement mode for approx. 1 second. The symbol for ear measurement mode appears in the display.
- Release the button. After the measurement process is complete, you will hear a beep and the body temperature will be displayed in the display .
- If the measurement result is 38,0°C (100.4°F) or higher, the indicator LED lights up in red (= fever alarm). In all other cases the indicator LED lights up in green.
- The measurement result will automatically be saved. After some seconds without pressing any button the device will switch off automatically.

Measuring the temperature of an object

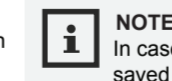
- Switch on the thermometer by shortly pressing button for forehead measurement mode or the button for ear measurement mode . The device performs a self-test and emits two short beeps.
- Press and hold the set & memory buttons at the same time for at least 3 seconds. The symbol for the surface temperature measurement mode appears in the display .
- To begin the measurement, point the sensor at the middle of the object (resp. of the liquid) at a distance of approx. 3cm. Press the button for forehead measurement mode or the button for ear measurement mode . If the object has water, dust or dirt on it, remove this first so that the reading is as accurate as possible.
- Release the button. After the measurement process is complete, you will hear a beep and the object temperature will be displayed in the display .
- The measurement result will automatically be saved. Again press and hold the set & memory buttons at the same time for at least 3 seconds to return to body temperature measurement mode. After some seconds without pressing any button the device will switch off automatically.

Recalling stored data

The **medisana** Infrared thermometer TM 750 can store up to 30 results. You can call up your stored data with a short press of the memory button . Firstly, the average value of all stored measurement results appears in the display , e.g.:

After another short press on the memory button , the memory slot number 1 (the most recently saved value) will appear in the display, together with the temperature reading and the symbol for the measurement mode (ear or forehead measurement mode or surface temperature mode). With a further press of the memory button , you can call up the result stored in memory slot "2". A total of 30 memory slots are available, and these will be displayed in order if you continue to press the memory button .

If a memory slot is empty, the symbol "- -" will appear next to it in the display.



NOTE
In case all memory slots are used, a new measurement result will be saved by deleting the oldest slot (slot no. 30) automatically.

Error messages

| Display | Description |
|---------|---|
| | The measured temperature is too high. Hi appears in the display if the reading is above 43°C / 109.4°F (body mode) or 100°C / 212°F (object mode) |
| | The measured temperature is too low. Lo appears in the display if the reading is below 34°C / 93.2°F (body mode) or 0°C / 32°F (object mode) |
| | The ambient temperature is not in the tolerance range of 15°C - 40°C (59°F - 104°F). |

Cleaning and maintenance

- The sensor is the most delicate part of the medisana Infrared thermometer TM 750. 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 batteries 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 thermometer TM 750 |
| Display system: | Digital display (LCD) |
| Power supply: | 3 V = , 2 batteries 1.5 V (type LR03, AAA) |
| Measuring range: | Body temperature measurement mode: 34°C - 43°C (93.2°F - 109.4°F) Surface temperature measurement mode: 0°C - 100°C (32°F - 212°F) |
| Accuracy of measurement: (laboratory readings); (under operating conditions) | Forehead: In the measuring range of 35°C - 42°C (95°F - 107.6°F) / ±0.2°C (±0.4°F); Ear: In the measuring range of 35°C - 42°C (95°F - 107.6°F) / ±0.2°C (±0.4°F) above of above mentioned measurement range: ± 0.3°C (0.5°F); Surface mode: ≤ 30°C (86°F): ± 1.5°C (2.7°F), > 30°C (86°F): ±5% (3 cm distance) 0.1°C (0.2°F) |
| Display resolution: | up to 30 readings |
| Memory capacity: | 15°C-40°C (59°F - 104°F), rel. humidity up to 95%, 700-1060 hPa |
| Operating conditions: | -25°C-55°C (-13°F - 131°F), rel. humidity up to 95%, 700-1060 hPa |
| Storage / transport conditions: | approx. 134.3 x 42.4 x 47.6 mm |
| Dimensions: | approx. 65 g without batteries |
| Weight: | 48618 |
| Article No.: | 40 15588 48618 0 |
| EAN Code: | |

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. Please check the supplementary sheet for details on this measurement data.

In accordance with our policy of continual product improvement, we reserve the right to make technical and optical changes without notice.

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:
- 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.
 - Defects in material or workmanship will be removed free of charge within the warranty period.
 - Repairs under warranty do not extend the warranty period either for the unit or for the replacement parts.
 - The following is excluded under the warranty:
 - All damage which has arisen due to improper treatment, e.g. nonobservance of the user instructions.
 - All damage which is due to repairs or tampering by the customer or unauthorised third parties.
 - Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre.
 - Accessories which are subject to normal wear and tear.
 - 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.

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