

WF-4000

Medical digital infrared thermometer



EN Instructions for Use

1. INTRODUCTION

Thank you for choosing the contact-free infrared thermometer WF-4000. The medical digital infrared thermometer WF-4000 is intended for contact-free measurements of the temperature of body, air and objects.

Scope of use: infrared thermometers are intended for personal use. In addition, the said thermometers can be used in healthcare institutions and services of healthcare delivery at home.

The operating principle of the thermometer is based on the measurement of infrared radiation, which is emitted by the surface of a human body or object, by converting it to a value of temperature.

Measurement without touching – unique property of a contact-free thermometer!

The thermometer is characterized by the following advantages:

1. **3-in-1 thermometer** – measurement of the temperature of a human body, ambient air and of the surface temperature of objects.

2. Instant measuring

Thanks to infrared technology users are able to determine the precise temperature of a body instantly and accurately.

3. Memory recall of 32 saved readings.

The function of memory recall of 32 previously recorded measurement results.

4. Sound signals can be turned off.

5. Elevated temperature warning in the mode of measuring the temperature of a human body.

6. Switch function °C/F (Celsius/Fahrenheit scale)

7. Automatic shut-off

For saving battery power, the device is automatically switched off if not used for more than 10 seconds.

8. Large LCD display

The device is equipped with a large LCD display, so the results are easy to read.

9. Compliance with hygiene standards.

The contact-free medical thermometer provides for determining temperature based on the requirements of following the sanitary standards. Just bring the thermometer to the person's forehead at a distance and measure temperature.

10. Comfortable and easy to use.

The ergonomic design ensures simple and easy use of the thermometer.

2. HIGH TEMPERATURE

High temperature is a symptom, not a disease. As a rule, this means that your organism is fighting an infection. In fact, this is a defense reaction of our body, which is characterized by an increase in body temperature above 37°C, heart rate and breathing.

The normal temperature of our body is about 37.5°C, when measured intrarectally, temperature in the mouth is lower by about 0.5°C (37°C), and temperature in the axillary region is lower by about 1°C (36.5°C).

Therefore, it is very important to measure temperature correctly in the most effective way, and it is advisable not to do it when the body temperature can be higher (when walking, after eating).

The temperature of a healthy person is influenced by the following factors:

- Metabolic individual characteristics
- Age (body temperature is higher in infants and young children, and it decreases with age; more significant temperature fluctuations occur faster and more often in children)
- Clothes
- Ambient temperature
- The time of day (in the morning body temperature is lower, and by the end of the day it becomes higher)
- Prior physical activity
- Method of measurement
- Phase of the menstrual cycle
- Skin secretions or sweat on the forehead (when temperature measuring on the forehead)

① Remember that the thermometer shall be kept in the room where temperature will be measured for at least half an hour, otherwise a measurement result may be inaccurate.

METHOD OF MEASUREMENT REFERENCE TEMPERATURE VALUES

Axillary	35.2 - 36.7°C
Orally	35.7 - 37.3°C
Intrarectally	36.2 - 37.7°C

① All temperature values displayed in the mode of forehead temperature measurement with an infrared thermometer are approximately the same as when measured orally with an electronic thermometer.

3. PRECAUTIONS

When using this device, please follow all the specified instructions. If you do not follow the rules below, you can harm your health or affect the accuracy of measurement.

1. Before measurement, patients and the thermometer should be in the environment with a constant room temperature for at least 30 minutes.

2. Take a measurement no earlier than 30 minutes after exercising, bathing or being outdoors.

3. Make sure that the forehead is clean and there are no traces of sweat, cosmetics, cream, etc. If necessary, clean the forehead and wait a few minutes before measuring.

4. When measure somebody continuously, the temperature should be measured every minute, if you need to measure yourself continuously for a short time, it is a normal phenomenon that there are some slight errors when you read the temperature. We recommend that you measure yourself continuously maximum of three in a unit of time then figure out the average and choose it because the temperature of the human will conduct to the thermometer, it may affect the accuracy of measurement.

5. Please collect the record of individual temperature under the good condition of body in usual days as a reference for checking fever or not.

6. Avoid direct contact of fingers with the measuring sensor.

7. The temperature of a human body is constantly changing and depends on various factors.

8. Use the thermometer only for its intended purpose.

9. **Using this thermometer is not intended as a substitute for consultation with your physician. It is dangerous for users to perform a self-evaluation and self-treatment based on the measuring result, please follow doctors' instruction.**

10. To protect the environment, dispose the used batteries in accordance with national or local regulations.

① CONTRAINDICATIONS: none found

① PRECAUTIONS:

1. Keep the thermometer out of reach of children, please consult the doctor at once if the children accidental swallow of battery or other component.

2. The thermometer shall only be used under the supervision of adults.

3. Do not repair or modify the device.

4. Do not disassemble the device, except for the case of battery replacement.

5. Any modification of the thermometer is not allowed.

6. Do not use the thermometer in a high humidity environment (above 85%) or in direct sunlight, and to measure very high temperature (above 42°C in the Forehead Temperature Measurement Mode, above 110°C in the Object Temperature Measurement Mode).

7. Avoid storing the device in damp places, at elevated temperatures, and in direct sunlight.

8. Avoid strong shaking or dropping of the device.

9. Don't throw the battery into fire.

10. Use the thermometer only for its intended purpose.

11. Do not measure the site of forehead temperature if patient has trauma on forehead.

12. Do not measure if patient is treated with certain drug therapies because body temperature may increase in the drug within the effect limit.

13. Do not use a mobile or cordless phone near the thermometer when measuring.

14. Please don't measure body temperature in strong electromagnetic interference environment (such as microwave, high frequency equipment operation environment) to ensure the accuracy of measurement data.

15. This thermometer only a personal device, please do not share with others. Clean the appliance as described in the user manual before using it by other users.

16. Do not touch the battery output when measuring.

17. Please store the thermometer according to the technical specifications.

18. The materials (ABS) of expect contact with patient has passed the ISO 10993-5 and ISO 10993-10 standard test, no toxicity, allergy and irritation reaction. They are compliant with the MDD requirements based on the current science and technology, and other potential allergic reactions are unknown.

19. The patent is an intended operator. The patient can measure, read data and replace battery under normal circumstances and maintain the device and its accessories according to the user manual.

① RECOMMENDATIONS

1) Don't use this thermometer for other purposes.

2) It is forbidden to leave the product exposed to any chemical solvent, direct sunshine or high temperature in case of damaging the product or the battery

3) Do not measure while talking on the phone.

4) Please report to MANUFACTURER if any unexpected operation or events occurs.

4. CONTROLS AND INDICATORS OF THE THERMOMETER

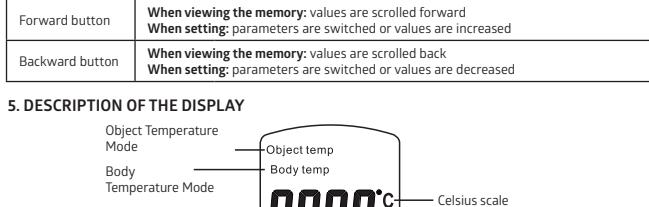


Fig. 1.1

Fig. 1.2

5. DESCRIPTION OF THE DISPLAY

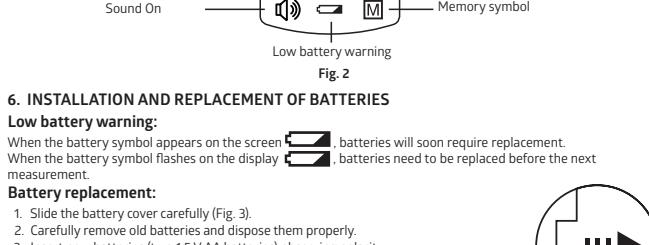


Fig. 2

6. INSTALLATION AND REPLACEMENT OF BATTERIES

Low battery warning:

When the battery symbol appears on the screen , batteries will soon require replacement.

When the battery symbol flashes on the display , batteries need to be replaced before the next measurement.

Battery replacement:

1. Slide the battery cover carefully (Fig. 3).

2. Carefully remove old batteries and dispose them properly.

3. Insert new batteries (two 1.5 V AA batteries) observing polarity.

4. Slide the battery cover back.

① NOTE:

Keep batteries out of reach of children and away from heat sources.

It is recommended to remove batteries if the device will not be used for a long time.

7. TEMPERATURE MEASUREMENT

7.1 Body temperature measurement:

1. Press the Power/Measurement button to switch on the thermometer.

2. After switching on, the device immediately starts automatic testing with all screen elements displayed, and then operational readiness is displayed (Fig. 4.1).

3. Make sure the device is in the Body Temperature Mode (Body temp) as shown in the figure. If necessary, switch the mode.

4. Point the front end of the thermometer at the forehead. Keep the thermometer about 5-8 cm away from the forehead (Fig. 4.4). Press and release the Power/Measurement button. You will hear a short sound signal indicating that a measurement has been taken. The recorded temperature will be displayed on the screen (Fig. 4.2).

If temperature exceeds 37.5°C, three sound signals will be heard indicating that your temperature is elevated.

5. After measurement, if the thermometer is not used for 10 seconds, OFF (i.e. switched off) will be displayed (Fig. 4.3), a sound signal will be given, and the thermometer will switch off automatically.

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Fig. 4.1

Fig. 4.2

Fig. 4.3

Fig. 4.4

7.2 Measuring the temperature of water, air and surface of objects:

1. Press the Power/Measurement button to switch on the thermometer.

2. After switching on, the device immediately starts automatic testing with all screen elements displayed, and then operational readiness is displayed (Fig. 5.1).

3. Make sure the device is in the Object Temperature Mode (Object temp) as shown in the figure. If necessary, switch the mode.

4. Point the front end of the thermometer at a point in space, surface of water or at an object. Bring the thermometer to the object at a distance about 5 to 8 cm (Fig. 5.4). Press and release the Power/Measurement button. You will hear a short sound signal indicating that a measurement has been taken. The measured temperature will be displayed on the screen (Fig. 5.2).

5. After measurement, if the thermometer is not used for 10 seconds, OFF (i.e. switched off) will be displayed (Fig. 5.3), a sound signal will be given, and the thermometer will switch off automatically.

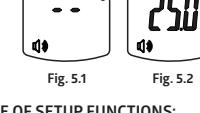


Fig. 5.1

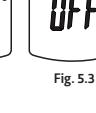


Fig. 5.2



Fig. 5.3



Fig. 5.4

8. USE OF SETUP FUNCTIONS:

By activating the settings menu, users can select certain functions (F1/F2/F3/F4) and configure them as required.

8.1 Switching between Body and Object Temperature Measurement Modes:

1. Press the Power/Measurement button to switch on the thermometer.

2. After switching on, the device immediately starts automatic testing with all screen elements displayed, and then operational readiness is displayed (Fig. 6.1).

3. When the thermometer is switched on, the current measurement mode is displayed.

4. If you need to change a measurement mode, use the Mode Switch button to switch to the Body Temperature Mode (Body temp) or the Object Temperature Mode (Object temp) (Fig. 6.2).

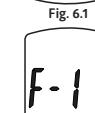


Fig. 6.1

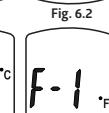


Fig. 6.2



Fig. 7

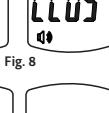


Fig. 8



Fig. 9

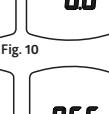


Fig. 10

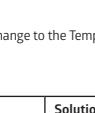


Fig. 11

① NOTE: New settings will not be saved if the thermometer is switched off during the setup procedure.

After the settings menu activation, the thermometer cannot measure temperature. When the Power/Measurement button is pressed, the thermometer will not switch to measurement mode.

9. MEMORY FEATURE

Recall memory:

You can recall 32 previously recorded measurements to show them to your doctor or a qualified health care professional:

1. When the device is on, press the Menu/Memory button. The Memory button will display the previously recorded measurement, which will be accompanied by displaying the "M" symbol.
2. Press "+" or "-" to scroll 32 previously recorded measurement results.
3. Press the Power/Measurement button to exit the Memory Function and change to the Temperature Measurement Mode.

10. TROUBLESHOOTING

	Cause	Solution to the problem
	The measured temperature is lower than the following values: 1. 32.0°C (89.6°F) if the thermometer is in the Body Temperature Measurement Mode. 2. 0.2°C (32.0°F) if the thermometer is in the Object Temperature Measurement Mode.	Use the thermometer only within the specified temperature ranges. If necessary, clean the sensor tip.
	The measured temperature is higher than the following values: 1. 42.0°C (107.6°F) if the thermometer is in the Body Temperature Measurement Mode. 2. 110°C (230.0°F) if the thermometer is in the Object Temperature Measurement Mode.	If you receive a repeated error message, contact your service center.
	The ambient temperature is outside the range of 16°C ~ 40°C (60.8°F to 104°F).	Use the thermometer only in rooms with an air temperature of 16°C to 40°C (60.8°F to 104°F).

11. CARE AND MAINTENANCE

Measurement sensor

Carefully clean with an alcohol-soaked swab. Do not use water for cleaning the lens.

