

prolife

THERMOMETER NON-CONTACT

PROLIFE FR200



EN

Instruction Manual

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1 INTRODUCTION

Dear friends, thank you for choosing our products!

Non-contact thermometer **Prolife FR200** has a wide measurement range, which allows it to be used as a thermometer for measuring body temperature, as well as:

- milk surface temperature in a baby bottle;
- water surface temperature in a baby bath;
- ambient temperature.

The latest technology with the use of an infrared sensor allows measuring temperature on forehead within a few seconds.



Please read the instruction manual carefully before using the device.

2 LIST OF SYMBOLS

Symbol

Meaning



The product meets the requirements of Directive 93/42/EEC concerning medical equipment.



WEEE (Waste Electrical and Electronic Equipment Directive). The symbol on the product or on its packaging indicates that this product is not classified as household waste. Please, separate such waste from other waste types and dispose it according to accepted standards, in order to avoid possible harm to environment and human health.



The unit meets the requirements of Customs Union Technical Regulation 020/2011 on Electromagnetic Compatibility of Technical Products.



Warning/Caution.



Read the instruction manual before use.



BF type product.



Manufacturer.

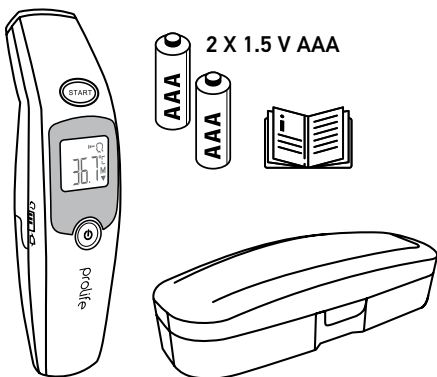


Authorized representative of the manufacturer in the European Union.

3 SCOPE OF APPLICATION

Non-contact thermometer **Prolife FR200** allows measuring body temperature on forehead and any surfaces. The device is designed for clinical and home use. Do not use the device for other purposes. The device is designed to measure temperature, both in children and adults.

4 COMPLETENESS



1. Non-contact thermometer
Prolife FR200 – 1 pc.
2. AAA batteries – 2 pcs.
3. Plastic case* – 1 pc.
4. Instruction manual – 1 pc.

*Optional, not included in the basic kit.

5 SPECIFICATIONS

Type	Infrared digital non-contact electronic thermometer
Model	FR200
Power source	3 V (2 batteries AAA x 1.5 V)
Measurement range	Body temperature 34.0°C ~ 42.2°C (93.2°F ~ 108.0°F) Surface temperature 0-100.0°C (32°F-212.0°F)
Measurement accuracy	Object temperature: ±0.3°C (±0.6°F): 0 ~ 100.0°C (32°F ~ 212.0°F) Body temperature: ±0.2°C, (±0.4°F): 34.0°C ~ 42.2°C (93.2°F ~ 108.0°F) Out of range: ±0.3°C (±0.5°F)
Dimensions, mm	150 x 40 x 39
Weight (without batteries), g	Approx. 56
Housing material	ABS plastic
Measurement time	Approx. 2 seconds
Display	Liquid crystal display, 4 digits with special icons, color illumination
Auto power off	In 1 minute
Operation terms	16-40°C, humidity 15-95% relative maximum humidity
Memory	Automatic display the last measured temperature

Indication of body temperature measurement

Temperature	Indication
$T < 34,0^{\circ}\text{C}$ ($93,2^{\circ}\text{F}$)	«L»
$34,0^{\circ}\text{C}$ ($93,2^{\circ}\text{F}$) $\leq T \leq 42,2^{\circ}\text{C}$ ($104,0^{\circ}\text{F}$)	Show temperature
$T > 42,2^{\circ}\text{C}$ ($104,0^{\circ}\text{F}$)	«H»

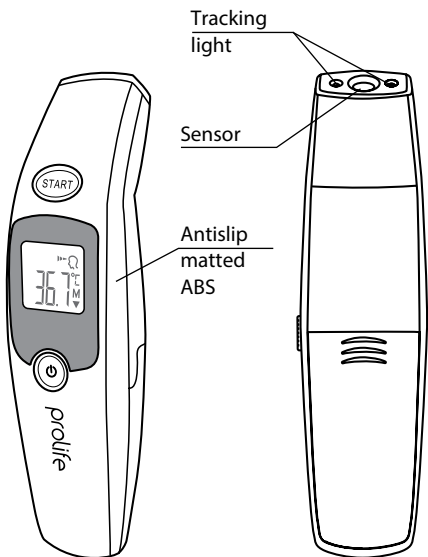
Sound signals

The device is switched on and ready for measurement	1 short beep
Measurement completion	5 paired or 10 short signals if the value is higher than $37,5^{\circ}\text{C}$
	2 short beeps if the value is below 35°C
	1 long beep when the measurement is completed
System error or malfunction	3 short beeps

6 DEVICE DESCRIPTION

The features of Non-contact thermometer Prolife FR200:

- non-contact measurement method;
- temperature measurement in a few seconds;
- high accuracy of measurements;
- color and sound indication.



7 SAFE OPERATION INSTRUCTIONS

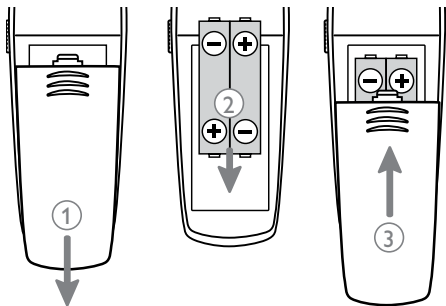
The device must be used for its intended purpose, in accordance with this manual.

- Any modification of the device is prohibited.
- Do not expose the thermometer to mechanical influences and do not use it if damaged.
- Do not immerse the device in water or other liquids.
- Do not use the device near high electromagnetic radiation sources, for example, near wireless sources or cellular phones.

- Do not allow children to play with the thermometer.
- Do not expose the thermometer to direct sunlight, heat, moisture, or dirt.
- Replace the batteries when needed.
- The environmental temperature in the apartment may differ in various rooms. Before measuring temperature, the user and the thermometer should stay in the same room (premises) with constant environmental conditions for at least 30 minutes.
- Before starting measurement, please remove any dirt, hair or sweat from the measuring area.
- Do not measure temperature during or straight after nursing.
- The user should not take food or drink immediately prior or during temperature measurement.
- Do not pocket the thermometer before use as it can be heated.
- Every time before starting measurement, please make sure that the measuring sensor lens is not contaminated. In case of contamination, clean the measuring sensor lens (chapter "Device cleaning"). During early stages of illness with a rapid rise in temperature to high values, the effect of «white hyperthermia» can be observed – a condition which can be characterized by the vessel constriction, when the skin becomes pale and remains cold. In such cases, temperature measurements on the forehead should not be carried out, because the temperature of the skin will be low.

8 PREPARATION FOR WORK

1. Open the batteries cover.
2. Install the batteries according to the instructions on the case.
3. Close the batteries cover.




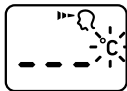
9 OPERATING PRINCIPLES AND PROCEDURES

BATTERIES INDICATION

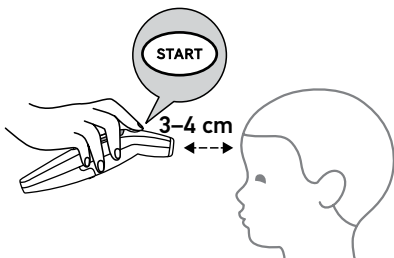
Low batteries ▼

BODY TEMPERATURE MEASUREMENT

1. To measure body temperature, switch on the device by pressing the button  once.
2. The result of the previous measurement will be shown on the display (when measuring previously).



Put the thermometer to the center of the forehead, maintaining a distance of 3–4 cm between the sensor and the skin.



3. Press the **START** button, 2 blue tracking lights will appear. The tracking lights will help to position the thermometer in relation to the forehead correctly. Begin to move the thermometer from the center of the forehead to the temple along the brow ridge (approximately 1 cm over the eyebrow).
4. The result of the body temperature measurement appears on the device display in 2 seconds. The thermometer will signal the measurement completion by a sound signal and by the display backlight.

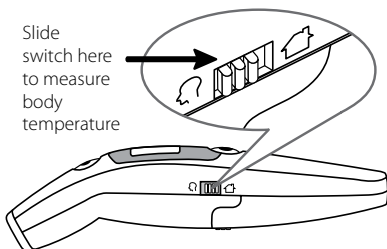




At the temperature 37.4°C and below, the green backlight turns on.




At the temperature 37.5°C and above, the red backlight turns on.

OBJECT TEMPERATURE MEASUREMENT



To switch from the body temperature measuring mode to the object temperature measuring mode, move the mode switch located on the side of the thermometer to the side of the  icon. To return to the body temperature measurement mode, move the switch to the side of the .

1. To measure the object temperature, turn on the device by pressing once the  button.
2. The display will show the result of the previous measurement (when taking measurements earlier).
3. Bring the thermometer to the measured surface so that there is a distance of 3-5 cm between the sensor and the surface.
4. Press the **START** button and release, the result of measuring the object temperature will appear on the screen of the device.



In this case, the thermometer will signal the end of the measurement with a sound signal and the backlight on.

SWITCHING BETWEEN THE MEASUREMENT °C AND °F

You should turn off the thermometer to switch between the measurement modes.

Then press and hold the **START** button for 5 seconds. The thermometer will enter the measurement units setting mode.

Press the **START** button to select the desired measurement mode °C or °F.

Wait for 5 seconds after selecting the desired mode. The thermometer will save the parameters and turn off automatically. The next time you turn on the thermometer will work according to the set parameters.

HOW TO VIEW THE LAST 30 MEMORY TEMPERATURE MEASUREMENTS

This thermometer allows you to view the last 30 measurements.

Memory Mode: Press the **START** button to enter the Memory mode when the power is off. The memory icon «M» will flash.

View last measurement: Press and release the **START** button to view the last record.

View the last 30 measurements:

Press and release the **START** button to sequentially view the last 30 entries in a row.

A single press of the **START** button after the last 30 measurements have been viewed, will resume the above sequence from viewing the last measurement.

10 DEVICE CLEANING



ATTENTION




Do not use chemically active detergents to clean the device.

1. Clean the device with a piece of dry cloth. If necessary, the cloth can be slightly moistened.
2. In case of contamination of the infrared thermometer sensor lens, the readings begin to change immediately as something interferes

with the measurement (usually the readings are too low). To delete the contamination, it is enough to wipe the sensor with a soft lint-free cloth (or cotton swab) moistened with disinfectant solution. Then it is necessary to wipe the lens with a dry soft lint-free cloth. After the cleaning procedure, the lens surface should be crystal clear. As the lens surface gets cool when the disinfectant solution evaporates, the thermometer should be left for several minutes at room temperature before use after cleaning.

3. Leave the device to dry in air at room temperature.
4. Store the device in a dry, clean and dust-free place in accordance with the operating terms.

11 TROUBLESHOOTING

Description	Possible reasons	Solution
Temperature data is not displayed properly	The sensor is too close/too far from the measured surface	The distance from the measured surface to the sensor should be 3–4 cm (for body temperature measuring) and 3–5 cm (for object temperature measuring)
The device can't switch on 	Low batteries	Replace the batteries
	Device damage	Contact the service center
	Ambient temperature is below +16°C	Ambient temperature should be in the range from +16°C to +40°C
	Ambient temperature is higher than +40°C	

Wrong (low) readings	The IR sensor lens is dirty	Clean the lens according to item 10 of this instructions manual
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12 STORAGE, TRANSPORTATION AND OPERATION TERMS

- The device should be transported at -10°C to $+40^{\circ}\text{C}$ with a maximum relative humidity of 75% or less.
- The device can be operated at a temperature of $+16^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ with a maximum relative humidity of not more than 95%.
- The device should be stored at a temperature of -20°C to $+50^{\circ}\text{C}$ with a maximum relative humidity of not more than 95%.
- Do not subject the device to sudden temperature fluctuations.



ATTENTION

After transport or storage at low temperatures, it is necessary to keep the device at room temperature for at least 2 hours before switching on.

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

13 DISPOSAL



The symbol on the product or on its packaging indicates that this product is not classified as household waste.

- With proper disposal of the product, you will help to prevent possible negative effects of the device on the environment and human health.

- For the protection of the environment, the device should not be disposed of with domestic (household) waste. Disposal must be carried out in accordance with local regulations.
- The device must be disposed of in accordance with the EU Directive 2012/19/EU WEEE (Waste Electrical and Electronic Equipment) for waste electrical and electronic equipment.

If you have any questions, please contact the local utility responsible for waste disposal.

14 CERTIFICATION

Non-contact thermometer **Prolife FR200** complies with Directive 93/42/EEC on medical equipment.

15 MANUFACTURER'S WARRANTY

The warranty period is indicated in the warranty certificate. The warranty period is established from the date of sale, providing that all operation conditions specified in this instruction manual are strictly observed. The warranty is valid subject to availability of a warranty card filled out by a duly authorized representative confirming the date of sale and also of the relevant receipt.

If the device does not work as expected, contact the service center.

The manufacturer reserves the right to make changes in the design of the device.

Do not try to repair the device yourself; it will lead to loss of warranty.

Changes made to this thermometer without manufacturer's permission will void the warranty.



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