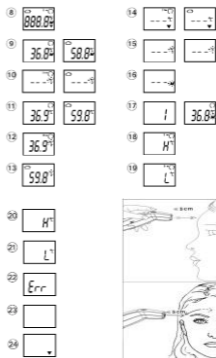
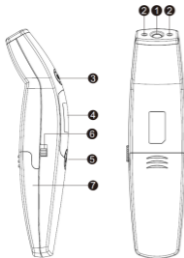




# Infrared Forehead Thermometer User Manual

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|-----------------------------|---|--------------------------------|
| ① Measuring Sensor          | ⑩ Measurement complete                    | Ⓜ Measured Temperature too low |
| ② Tracking light            | ⑪ Body Mode                               | Ⓨ Ambient Temperature too high |
| ③ START Button              | ⑫ Object Mode                             | ⑰ Ambient Temperature too low  |
| ④ Display                   | ⑬ Low Battery Indication                  | Ⓩ Error Function Display       |
| ⑤ ON/OFF Button             | ⑭ Changing between Celsius and Fahrenheit | ⓐ Blank display                |
| ⑥ Mode Switch               | ⑮ Recall Mode                             | ⓑ Flat Battery                 |
| ⑦ Battery Compartment Cover | ⑯ Recall the last 30 Readings             |                                |
| ⑧ All Segments displayed    | ⑰ Measured Temperature too high           |                                |
| ⑨ Memory                    |   |                                |
| Ⓚ Ready for Measurement     |   |                                |

Infrared Forehead Thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, this thermometer can provide a stable, heat-interference free reading with each measurement. The instrument performs a self-test every time it is switched on to always guarantee the specified accuracy of measurements. This Thermometer is intended for the periodic measurement and monitoring of human body temperature. This thermometer has been clinically tested and proven to be safe and accurate when used in accordance with its operating instruction manual. Please read through these instructions carefully so that you understand all functions and safety information.

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- 2 Important Safety Instructions
- 3 How this Thermometer measures Temperature
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## 1. Advantages of Infrared Forehead Thermometer

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### **Measurement in a matter of seconds**

The innovative infrared technology allows measurement without even touching the object. This guarantees safe and sanitary measurements within seconds.

### **Multiple Uses (Wide Range Measurement)**

Infrared thermometer offers a wide measurement range feature from 0 °C to 100.0 °C (32.0 °F to 212.0 °F), that means the device can be used to measure body temperature or it can be used to measure surface temperature of the following:

- Milk surface temperature in a baby's bottle
- Surface temperature of a baby's bath
- Ambient temperature

### **Accurate and reliable**

The unique probe assembly construction, incorporating an advanced infrared sensor, ensures that each measurement is accurate and reliable.

### **Gentle and Easy to Use**

- Ergonomic design enables simple and easy use of the thermometer.
- It can even be used on a sleeping child, thereby causing no disruption.
- It is quick and child-friendly.

### **Auto-Display Memory**

The last reading is automatically displayed for 2 seconds when the unit is switched ON.

### **Multiple Reading Recall**

Users can recall last 30 readings when entering the recall mode, enabling efficient tracking of temperature variations.

### **Safe and Hygienic**

- Do not require direct skin contact.
- No risk of broken glass or mercury ingestion.
- Completely safe for children.
- Cleaning of the probe can be done with an alcohol-moistened cotton tissue, making this thermometer completely hygienic for use by the whole family.

### **Fever Alarm**

10 short beeps and a red LCD backlight alert indicates the patient have a

temperature equal to or higher than 37.5 °C

## 2. Important Safety Instructions

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- This instrument may only be used for the purposes described in this booklet. The manufacturer cannot be held liable for damage caused by incorrect application.
- **Never immerse this instrument in water or other liquids. For cleaning please follow the instructions in the «Cleaning and Disinfecting» section.**
- Do not use the instrument if you think it is damaged or notice anything unusual.
- Never open the instrument.
- A basic physiological effect called vasoconstriction can occur in the early stages of fever, resulting in a cool skin effect. The recorded temperature using this thermometer can, therefore, be unusually low.
- If the measurement result is not consistent with the patient's finding or unusually low, repeat the measurement every 15 minutes or double check the result by another core body temperature measurement.
- This instrument comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the «Technical Specifications» section!
- Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
- Protect it from:
  - extreme temperatures
  - impact and dropping
  - contamination and dust
  - direct sunlight
  - heat and cold
- If the instrument is not going to be used for a prolonged period the batteries should be removed.



**WARNING:** Use of this instrument is not intended as a substitute for consultation with your physician. This instrument is NOT waterproof, so never immerse in liquids.

### 3. How this Thermometer measures Temperature

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Dr. Trust Infrared Forehead Thermometer measures infrared energy radiated from the forehead as well as objects. This energy is collected through the lens and converted to a temperature value. Temperature readings are obtained efficiently by scanning on the forehead area.

### 4. Control Displays and Symbols

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- **All segments displayed** ⑧: Press the ON/OFF button ⑤ to turn on the unit; all segments will be shown for 2 seconds.
- **Memory** ⑨: The last reading will automatically be shown on the display for 2 seconds.
- **Ready for measurement** ⑩: When the unit is ready for measurement, the «°C» or «°F» icon will keep flashing while the mode icon (body or object) will be displayed.
- **Measurement complete** ⑪: The reading will be shown on display 4 with the «°C» or «°F» icon and the mode icon steady. The unit is ready for the next measurement as soon as the «°C» or «°F» icon is flashes again.
- **Low battery indication** ⑫: When the unit is turned on, the battery icon will keep flashing to remind the user to replace the battery.

### 5. Changing between Body and Object Mode

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For changing from body to object mode, slide the mode switch ⑥ at the side of the thermometer downwards. For switching back to body mode, slide the switch up again.

### 6. Directions for Use


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#### Measuring in Body Mode

1. Press the ON/OFF button ⑤. The display ④ is activated to show all segments for 2 seconds.
2. The last measurement readings will automatically be shown on the display for 2 seconds with the «M» icon ⑨.
3. When the «°C» or «°F» icon flashes, a beep sound is heard and the thermometer is ready for measurement ⑩.
4. **Place the thermometer at the center of the forehead with a distance of no more than 5 cm.** If the forehead is covered with hair, sweat or dirt, please remove the obstacle beforehand to get accurate reading.
5. **Press the START button ③ and steadily move the thermometer** from the middle of the forehead to the temple area (about 1 cm above the eyebrow). The activated blue tracking light will indicate the measurement area. After 3 seconds a long beep will verify the completion of measurement. If unable to reach temple area, before the long beep is heard, repeat the measurement as described above, but move the thermometer a little faster.

6. Read the recorded temperature from the LCD display.

### Measuring in Object Mode

1. Follow steps 1-3 as described in Body Mode, then aim the thermometer at the center of the object you want to measure with a distance of no more than 5 cm. Press the START button . After 3 seconds a long beep will verify the completion of measurement.
2. Read the recorded temperature from the LCD display.



#### NOTE:

- **Patients should stay in steady-state room condition for at least 30 minutes.**
- Do not take a measurement while or immediately after nursing a baby.
- Do not use the thermometer in high humidity environments.
- Avoid drinking, eating, or exercising before /while taking the measurement.
  - Do not move the measurement device from the measuring area before hearing the termination beep.
  - Use an alcohol swab to carefully clean the probe and wait for 15 minutes before taking a measurement on another patient.
  - 10 short beeps and a red LCD backlight alert the patient that he/she may have a temperature equal to or higher than 37.5 °C.
  - Always take the temperature in the same location, since temperature readings may vary according to locations.
  - Doctors recommend rectal measurement for newborn infants within the first 6 months, as all other measuring methods might lead to ambiguous results. If using a non contact thermometer on those infants, we recommend to always verify the readings with a rectal measurement.
  - It is recommended to take three temperatures in case of the following conditions, out of which the highest one need to be considered:-
    1. Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
    2. When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.
    3. If the measurement is surprisingly low.
- Readings from different measuring sites should not be compared as the normal body temperature; it varies by measuring site and time of day, being highest in the evening and lowest about one hour before waking up.

Normal body temperature ranges:

-Axillaries: 34.7 - 37.7 °C / 94.5 -99.1 °F

-Oral: 35.5 - 37.5 °C / 95.9 - 99.5 °F

-Rectal: 36.6 -38.0 °C / 97.9 - 100.4 °F

-COMBEIFR200: 35.4 °C - 37.4 °C / 95.7 - 99.3 °F

## 7. Changing between Celsius and Fahrenheit

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This thermometer can display temperature measurements in either Fahrenheit or Celsius. To switch the display between °C and °F, simply turn OFF the unit, **press and hold** the START button (3) for 5 seconds; after 5 seconds, the current measurement scale («°C» or «°F» icon) will flash on the display(6). Change the measurement scale between °C and °F by pressing the START button (3). When the measurement scale has been chosen, wait for 5 seconds and the unit will automatically enter the «ready for measuring» mode.

## 8. How to recall 30 readings in Memory Mode

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This thermometer can recall the last 30 readings.

- **Recall mode** (6): Press the START button (3) to enter Recall mode when power is off. The memory icon «M» will flash.
- **Reading 1 - the last reading** (7): Press and release the START button(3) to recall the last reading. Display 1 alone with memory icon.
- **Reading 30 - readings in succession:** Press and release the START button (3) consecutively to recall the last 30 readings in succession.

Pressing and releasing the START button 3 after the last 30 readings will resume the above sequence from reading 1.

## 9. Error Messages

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- **Measured temperature too high** (8): Displays «H» when measured temperature is higher than 42.2 °C / 108.0 °F in body mode or 100 °C / 212 °F in object mode.
- **Measured temperature too low** (9): Displays «L» when measured temperature is lower than 34.0 °C / 93.2 °F in body mode or 0 °C / 32 °F in object mode.
- **Ambient temperature too high** (20): Displays «H» in conjunction when ambient temperature is higher than 40.0 °C / 104.0 °F.
- **Ambient temperature too low** (21): Display «L» in conjunction when ambient temperature is lower than 16.0 °C / 60.8 °F in body mode or lower than 5.0 °C / 41.0 °F in object mode.
- **Error function display** (22): The system has a malfunction.
- **Blank display** (23): Check if the batteries have been loaded correctly. Also check polarity (<+> and <->) of the batteries.
- **Flat battery indication** (24): If this icon «▼» is the only symbol shown on the



display, the batteries should be replaced immediately.

## 10. Cleaning and Disinfecting

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Use an alcohol swab or cotton tissue moistened with alcohol (70% Isopropyl) to clean the thermometer casing and the measuring probe. Ensure that no liquid enters the interior of the thermometer. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the probe lens and the display.

## 11. Battery Replacement

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This instrument is supplied with 2 new, long-lives 1.5V, size AAA batteries. Batteries need replacing when this icon «▼»Ⓜ is the only symbol shown on the display. Use a screwdriver to open the battery cover. Replace the batteries – ensure correct polarity as shown by the symbols in the compartment.



Batteries and electronic instruments must be disposed of in accordance with the locally applicable regulations, not with domestic waste.

## 12. Technical Specifications

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**Type:** Non-Contact Thermometer FR200

**Measurement Range:** Body Mode: 34.0-42.2 °C (93.2-108.0 °F)  
Object Mode: 0-100.0 °C (32-212.0 °F)

**Resolution:** 0.1 °C / °F

**Measurement Laboratory:** ±0.2 °C, 36.0~39.0 °C

**Accuracy:**(±0.4 °F, 96.8~102.2 °F)

**Display:** Liquid Crystal Display, 4 digits plus special

**Acoustic:** The unit is turned ON and ready for the measurement: 1 short beep Complete the measurement:1 long beep (1 sec.) if the reading is less than 37.5 °C (99.5 °F), 10 short «beep», if the reading is equal to or greater System error or malfunction:3 short «bi» sounds

**Memory:** Auto-Display the last measured temperature30 readings recall in the Memory Mode

**Backlight:** The display light will be GREEN for 4 seconds, when the unit is turned ON. The display light will be GREEN for 5 seconds, when a measurement is completed with reading equal to or lower than 37.5 °C(99.5 °F).The display light will be RED for 5 seconds, when a measurement is completed with a reading higher than 37.5 °C(99.5 °F).

**Operating:** Body Mode: 16-40.0 °C (60.8-104.0 °F)

**Temperature:** Object Mode: 5-40.0 °C (41-104.0 °F) icons

**Storage:**-20 °C to +50 °C (-4 °F to 122 °F)

**Temperature:** 15-95 % relative maximum humidity

**Automatic:**Approx. 1 minute after last measurement

**Switch-off:** has been taken.

**Battery:** 2 x 1.5 V Batteries; size AAA,

**Dimensions:** 150 x 40 x 39 mm than 37.5 °C (99.5 °F).






**Weight:** 81 g (with batteries), 56 g (w/o batteries)

**Reference to** EN12470-5:2003

**Standards:** IEC 60601-1; IEC 60601-1-2 (EMC)

This device complies with the requirements of the Medical Device Directive 93/42/EEC. Technical alterations reserved. According to the Medical Product User Act a biennial technical inspection is recommended for professional users. Please observe the applicable disposal regulations.

**Remark:**

	Some electrical and electrical equipments forbid to abandon and disposal at will
	Inapplicable baby
	Attention consult accompanying documents
 0197	TUV NO.
	Type BF equipment



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