

**scala**  
**Infrared-  
Forehead-  
Thermometer  
SC 8271**



**CE** 0197

**GB** Instruction manual

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## **SAFETY INSTRUCTIONS**



### Warnings

1. Read the entire instruction manual before trying to operate the device.
2. The device is delivered non-sterile; please clean the device before measuring.
3. Stop using the device if malfunctions appear or if it operates abnormally.
4. Children should not use the device without the supervision of an adult. Keep out of reach of unsupervised children.
5. Do not use the device when flammable materials are around.
6. Do not place the device on scarred tissue, open wounds or abrasions.
7. Some medications may cause a rise in skin temperature which can consequently lead to incorrect measurements.
8. Taking a measurement after skin has been exposed to an extreme condition such as direct exposure to sunlight, fireplace/heater or air conditioner flow, may lead to incorrect readings.
9. If the device has been kept or stored in extreme temperatures, wait at least one hour for the device to return to room temperature before measuring.
10. Do not touch the Probe.
11. The device is not water resistance, please keep dry.
12. Do not drop the thermometer or expose it to heavy shock.
13. Do not bite or swallow the probe and the battery cover.
14. Do not let thermometer come into contact with any thinner or chemical solvents.
15. Components may be harmful if swallowed. Contact a physician immediately should this occur.
16. Do not use if the display malfunctions or it operates irregularly.

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17. Do not put this unit in dishwasher.

18. If the thermometer has been stored at below-freezing temperatures, allow the thermometer to warm naturally to room temperature before using.

19. Performance of the thermometer may be degraded if: Operated or stored outside stated temperature and humidity ranges or if the patient's temperature is below the ambient (room) temperature.

20. Only use the thermometer indoors and do not use it near mobile phones or microwave ovens. In the case of thermometer whose maximum power exceeds 2 W, the minimum distance from thermometer should be 3,3 meters (10,8ft).

21. The reading is for reference, if feel sick or uncomfortable, please contact the physician.



### Cautions

1. Do not scrape or scratch the probe as it will hamper the effectiveness of the device.

2. Do not dismantle the device except when replacing the battery.

3. Wait at least thirty minutes after exercising, bathing or eating before taking a measurement.

4. If the subject's body temperature is lower than the room temperature, a false reading may occur.

5. To ensure the best performance of the device, please follow the **Product Specification** "Storage condition" regarding temperature and humidity ranges for storing the device.

6. Dispose of the device and battery according to your local regulatory or environmental protection agency.

7. The device is not intended for use in the emergency medical services environment.

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8. For maximal performance of the device, we recommend a regular check up and device calibration every two years.

**DEVICE DESCRIPTION AND INTENDED**

**USE** The thermometer is an electronic device intended to measure the human body temperature using the forehead as measurement site. It is designed to absorb the infrared from human body to detect your temperature. It can be used with adult or pediatric patients and it can be used in household.

**ABOUT BODY TEMPERATURE**

A person's normal body temperature can range from 35,5°C to 37,8°C throughout the day. We recommend taking your temperature at different times during the day when you are NOT sick. This will give you a preliminary reference to know what your normal temperature is and how it fluctuated during a normal day. Then, when you feel sick or discomfort, knowing this will provide an index for a reliable diagnosis of a fever.

**CONTRAINDICATIONS**

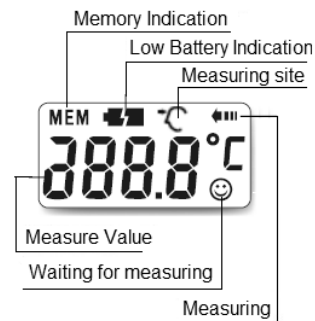
The thermometer is contraindicated:

1. Place the probe in scarred tissue or tissue compromised by skin disorders.
2. Patients in trauma or treat with certain drug therapies.
3. Place the thermometer Probe on skin exposed to direct sunlight, fireplace heat, cold compress therapies, air conditioner flow, etc.

**DEVICE OVERVIEW**



**DISPLAY OVERVIEW**














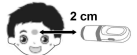
### QUICK START


1. Install battery into the device. Make sure the polarity (+ and -) of the battery matches as shown in the battery compartment
2. Press and release the ON/OFF button, you will hear a short beep. The device will be ready for measuring.
3. Aim Probe to the measuring site within measuring distance.
4. Press the ON/OFF Button then read the temperature on the LC Display.



### EXPLANATION OF SYMBOLS

<b>0/I</b> bzw. 	ON/OFF Button
	Wait for measuring
	Measuring site is ear canal
	Measuring
	Low battery indication
<b>MEMORY</b>	Memory indication
<b>CE 0197</b>	conform with EC directive 93/42/EEC and subsequent changes.
	Please read thoroughly before using.
	Keep dry
	Warning and Caution

<b>IP 20</b>	2: Protected against solid foreign objects > 12,5 mm diameter 0: Non-protected Enclosures classified according to degree of protection against ingress of water and particulate matter (IPN1N2) as detail in IEC 60529. ME equipment or its parts marked with IP environment code per IEC 60529 according to classification in 6.3 (Table D.3, code2).
<b>OFF</b>	Power off
	Disposal notes
<b>RoHS</b> conform 2011/65/EU	This is denotes the compliance of Restriction of Hazardous Substances Directive.
	REACH symbol Registration, Evaluation, Authorization and Restriction of Chemicals is a European Union regulation.
	Type BF Applied Part
<b>LOT</b> MMY	Production period (month / year)
	Measuring site, distance to forehead

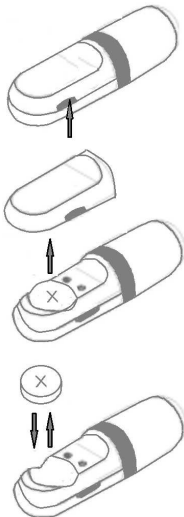
	Manufacturer
EC REP	Authorized Representative in the EU
<del>PHT</del> <del>DEHP</del> <del>BBP</del> <del>DBP</del>	No PHT

### BATTERY INSTALLATION

1. Replace with a new CE2032 battery when the low battery indication appears.
2. Remove battery if the device is not likely to be used for a long period of time.
3. Do not dispose the battery in a fire, the battery will explode.

#### Replacing / Installing Battery

1. Remove the battery cover to insert a battery.



2. Confirm the polarity (+ and -) of a battery is correct as indicated inside the compartment and insert a battery accordingly.
3. Replace the battery cover.

### MEMORY FUNCTIONS

#### Recall memories

1. To recall a memory, you must begin with the device being powered off.
2. From the off position, press and hold the ON/OFF Button (about 3 seconds) until the last record show.
3. You may continue to press and release the ON/OFF Button to recall up to 9 previous records.
4. Discontinue pressing the ON/OFF Button to stop recalling memories.



5. The device will beep twice indicating it is ready to begin a new measurement.



#### Delete memories

1. Repeat Recalling Memories step 1 and step 2.
2. Press and hold the ON/OFF Button for about 3 seconds until "dEL" is displayed.



3. Press and release the ON/OFF Button again to delete all stored records in the device's memory.
4. The device will power off automatically.



## MEASUREMENT CONSIDERATION



### Caution

Make sure the measuring site is dry, clean and free of sweat and cosmetics prior to measurement taking.

Aim the Probe center (Lens) between your eyebrows at your forehead with 2cm distance.



## DOING A MEASUREMENT



### Caution

1. Press the ON/OFF Button to turn on the device, it will do auto self-diagnosis.
2. When all symbols appear on the LC Display, the self-diagnosis is finished. You can start measuring the temperature.



3. Aim the Probe to the forehead within 2 cm.

**4. Press the ON/OFF button. Under no circumstances should you change the position of the device during measurement. After 2 seconds, the end of the measurement is indicated with a beep.**

5. The device fever alarm will beep continuously when the temperature reading is over 37,5°C.
6. Press and hold the ON/OFF Button firmly for 5 seconds; it shows OFF with a long beep then turns off the unit. If no use within 10 seconds the unit turns off automatically.

## CLEANING AND DISINFECTION

1. To clean and disinfect the device, use a cotton swab or pad moistened with 70% alcohol to wipe the Probe.
2. Use a cloth dampened with water or neutral detergent to clean and dry the device.
3. Do not use thinner, benzene and other harsh cleaners for cleaning the device.
4. Do not immerse the unit in water or liquid of any kind. The unit is not waterproof.



Do not submerge or expose the device to water



Do not use corrosive detergent to clean the device. Clean and disinfect the thermometer before and after use.

### Cleaning process

1. Pre-cleaning with cold water wash several times.
2. Clean the Probe with solution of 5-10% mild detergent about 10 - 15 minutes.
3. The continuously cleaning operation with cold water to avoid the chemical residues remaining on the device.
4. Rinse the device with reverse osmosis water (R.O. water) or distilled water to ensure the removal of all remnants of the cleansing agent.
5. If necessary, repeat step 2 to step 4 in order to make sure the device was clean.
6. A final wipe down by a clean wiper is necessary to avoid water stains.

#### Disinfection process

1. To disinfect the device when completed the cleaning process.
2. Wiping the Probe with a cloth dipped in a disinfectant solution such as rubbing 70-75% alcohol solution: contact time  $\geq$  10 min for disinfection.
3. The disinfectant free rinse without residues.

#### Drying process

1. After cleaning and disinfection process.
2. Put the device to air-dry in the room temperature (20-30°C), exposure time around 30-60 min.
3. And store the device in a dry, clean and dust-free environment at moderate temperatures of 5°C to 40°C.

#### **CARE AND STORAGE**

1. Do not drop or crush the device. It is not shock proof.
2. Do not dismantle or modify the device other than changing the battery.
3. Do not store the device in an extreme environment with direct sunlight, high/low temperatures or in a location with high humidity or severe dust.





Please contact your local agents or distributors if the device does not function properly as specified under **PRODUCT SPECIFICATION**

#### **PRODUCT SPECIFICATION**

Measuring site	Forehead
Measuring time	1 second
Measuring range	32,2°C - 43,3°C
Accuracy	34,0°C - 43,0°C: +/-0,3°C other range +/-0,4°C
Measuring unit	°C
Resolution	0,1°C
Memory	9 sets
Operation condition	+16°C - +35°C, a relative humidity range of 15% to 90%, non-condensing, an atmospheric pressure range of 700hPa to 1060 hPa
Storage condition	-25°C to +5°C, and +5-35°C at a relative humidity up to 90% (non-condensing), >35°C to 55°C at a water vapour pressure up to 50 hPa, relative humidity is variable within 30-90% range
Battery	1 x CR2032
Battery life	More than 3.000 measurements
Auto shut off	after 10 seconds of inactivity
Dimension	88,5 x 26 x 26 mm
Weight	34 g including battery
Certification	ISO 13485 und ISO 80601-2-56

Specifications may change as technical improvements take place

### TROUBLESHOOTING

	The reading is higher than measuring range. Please wait a few minutes and measure again.
	The reading is lower than measuring range. Please wait a few minutes and measure again.
	The ambient temperature is out of the operating condition.
	The device self-diagnostic is failed. Please contact the distributor.

### WARRANTY

We grant a warranty of two years for the thermometer. The cash voucher is your warranty certificate. The product will be repaired free during the warranty period. The warranty does not cover damage due to improper handling, accident, non-compliance with the instructions for use or unauthorized modifications of the product.

### DISPOSAL NOTES



Defective blood pressure monitors or monitors at the end of their life may contain material that might be a hazard to the environment.

Dispose of the blood pressure monitor as prescribed, i.e., at a collection point for electrical scrap.



The disposal of batteries is regulated. Spent batteries are collected at collection points provided by battery dealers and the communities.



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