

## Digital Electronic Thermometer SC 2050



### Device description and intended use

This digital thermometer is intended to measure human body temperature for children and adults; it has digital display and be used in household environment.

### Contraindications

The digital thermometer is contraindicated:

1. Place the thermometer probe in scarred tissue or tissue compromised by any disorders of measuring site.
2. Place the thermometer probe on skin exposed to direct sunlight, fireplace heat, cold compress therapies, air conditioner flow, etc.

### Features

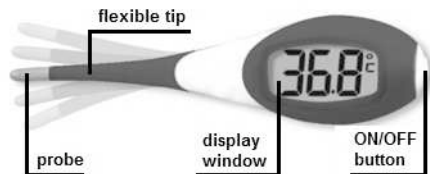
1. Easy to read digital LCD (liquid crystal display).
2. Quick measurement, the minimum measuring time of oral and rectal is around 10 seconds with proper use.
3. Memory display for last temperature taken.
4. Compact, accurate and durable LSI (large scale integration) device.
5. Very sensitive to obtain temperature.
6. If the thermometer is inadvertently left on after temperature stabilization, it will automatically shut off in 30 seconds.
7. Small light weight unit.
8. The unit is water resistant

### Precaution

1. Do not boil the probe. Instead, clean the unit by wiping it with a dry cloth and disinfect the probe with isopropyl (rubbing) alcohol. See cleaning instructions for details.
2. Do not drop the thermometer or expose it to heavy shock.
3. Do not bite or swallow the probe and the battery cover.
4. Do not let thermometer come into contact with any thinner or chemical solvents
5. Do not store the unit under direct sunlight, at a high temperature, in high humidity or dust. Performance may be degraded.
6. Stop using the thermometer if it operates erratically or if the display malfunctions.
7. Keep out of reach of unsupervised children. Do not let children play with the unit. Temperature should be taken under adult supervision.
8. Components may be harmful if swallowed. Contact a physician immediately should this occur.
9. Clean the thermometer probe before storing.

10. Do not attempt to disassemble the unit except to replace the battery.
11. Do not use if the display malfunctions or it operates irregularly.
12. Do not put this unit in dishwasher.
13. If the thermometer has been stored at below-freezing temperatures, allow the thermometer to warm naturally to room temperature before using.
14. 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.
15. Before using, it is recommended to no drinking, smoking or excising for at least twenty minutes prior to do a measurement and no talk, walk during measuring, it may cause inaccurate reading.
16. Only use the thermometer indoors.
17. When the battery is almost exhausted, the symbol "☹" will appear in the display window, meaning it's time to discard.
18. The reading is for reference, if feel sick or uncomfortable, please contact the physician.
19. The thermometer is a direct mode thermometer. Measuring site is reference body site and the measuring site is oral and rectal.

### Device description



### How to use

1. Press and release the ON/OFF button, the display read all segments and confirming that the unit is functioning properly.
2. Then the display will show L°C with °C flashing. If the room temperature is greater than 32.0°C, it will display rather than L°C.
3. Place the probe in the appropriate position.
4. Once the degree sign °C stops flashing, the measurement is finished and the temperature is displayed. An alarm signal will also sound for approximately 5 seconds after °C stops flashing.
5. The unit will automatically turn off in 30 seconds (approx.). However, to prolong battery life, it is best to press the ON/OFF button to turn off once the temperature has been indicated.

### Last-Temperature Memory Recall:

When the ON/OFF button is depressed to activate the thermometer, hold down for approximately 5 seconds. The display of 188.8 will change to show

the last reading. This reading is displayed as long as the button is held down. When the button is released, the thermometer will be in "ready-to-measure" mode and the recalled temperature will be erased.

### Fever alarm:

If the temperature registers higher than 37.5°C, the fever alarm (a quick beeping sound which occurs continuously for about 8 seconds) will sound when the peak temperature has registered. Also, the result will keep flashing until the thermometer is turned off.

### Backlight:

temperature (°C)	color of backlight
T ≤ 35.9	no backlight
36.0 ≤ T ≤ 37.1	green
37.2 ≤ T ≤ 37.4	yellow
37.5 ≤ T ≤ 43.9	red
T ≥ 44.0	no backlight

### Reliable method to measure temperature

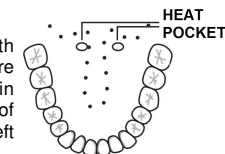
#### BODY TEMPERATURE:

A person's body temperature will usually be several tenths to one full degree lower in the morning than it is in the late afternoon. Therefore, if your temperature is 36.6°C in the morning, it could be 36.9°C or more in the late afternoon and still be normal. To determine what your normal body temperature is you should take your temperature both in the early morning and in the late afternoon over several days. Children have the same normal temperature range as do adults. A fever for both children and adults is typically defined as a temperature over 37.5°C. Exercise, excessive clothing, hot bath, hot weather, warm food and drink can cause mild elevations of up to 38.0°C to 38.4°C. If you suspect one of these to be the cause of an elevated reading, eliminate the possible cause and retake the temperature in a half hour.

#### Measurement locations

##### In the mouth (oral)

Small temperature variations in the mouth between measurements are normal. These are caused by varying temperature distribution within the mouth. Try to place the thermometer in one of the two heat pockets under the tongue, to the left and right of the tongue root. The measurement sensor must have good contact with the tissue. The subject should close the mouth and breathe normally through the nose so that the measured result is not affected by breathed air. Measuring period: approx. 10 seconds




### In the anus (rectal)

This is the safest method. It is particularly suitable for infants and small children. Guide the thermometer point carefully 1 - 2 cm into the anus. Measuring period: approx. 10 seconds


### Under the arm (axillary)

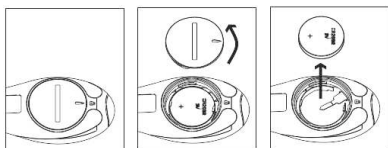
From a medical viewpoint this type of measurement leads to inaccurate values. It is therefore unsuitable for carrying out exact measurements.

### Trouble shooting

<b>Err</b>	Auto detection is error. Please return to the distributor.
<b>H</b>	Temperature at the probe above 43.9°C
<b>L</b>	Temperature at the probe below 32.0°C
	The device detects low battery. Please change the battery.

### Battery replacement

- When the symbol " " appears, the battery needs to be replaced.
- Using a coin, unlock the battery cover by turning it counter-clockwise and carefully remove the battery with a non-metal instrument from the battery holder. Avoid of using any sharp metal object in this operation.
- Discard old battery carefully.
- Replace the battery with a 3V, CR2032 lithium type in the chamber with the negative(-) side down and the positive(+) side up.
- Using a coin, replace and secure the battery cover by turning it clockwise.



### Warning :

- Discard old battery carefully , out of reach of young children. Swallowing the battery may be fatal. If the battery is swallowed, contact a hospital immediately to have it removed. Do not dispose of the battery in a fire. It may explode .
- For battery disposition, please follow chapter "Disposal note".

### Clean & disinfection instruction

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

### Cleaning process:

- Pre-cleaning with cold water wash several times.
- Clean the probe with a solution of 5-10% mild detergent about 10~15 minutes.
- Continuously clean with cold water to avoid any chemical residues remaining on the device.
- Rinse the device with drinking water or distilled water to ensure the removal of all remnants of the cleansing agent.
- If necessary, repeat step 2 through step 4 in order to make sure the device is clean.
- A final wipe down by a clean wipe is necessary to avoid water stains.

### Disinfection process:

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

### Drying process:

- After cleaning and disinfection process above.
- Put the device to air-dry in the room temperature (20-30°C), exposure time around 30~60 min.
- And store the device in a dry, clean, and dust-free environment at room temperature.

### Care and storage

- Do not drop or crush the device. It is not shock proof.
- Do not dismantle or modify the device other than changing the batteries.
- 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.

### Specifications

Measuring range: 32.0°C to 43.9°C  
Temperature below 32.0°C: display "L" for low.  
Temperature above 43.9°C:display "H" for high.  
Accuracy: +/- 0.1°C between 35.5°C and 42.0°C; other: +/- 0,2°C  
Memory: last memory  
Battery (include): 1 x CR2032  
Battery life: more that 5,000 measurements  
Dimension: 117 x 30 x 16 mm  
Weight: approx. 20g (included battery)  
Operation condition: +16°C to +35°C;  
at a relative humidity range of 15% to 90%,  
Storage condition: -10°C to 50°C; at a relative humidity up to 90%


### Warranty


We give a guarantee period of 2 years from the date of purchase. We guarantee perfect design of this article. We will rectify all material or manufacturing errors during the guarantee period. If, contrary to expectations, defects are found, please send the device back to our customer service department. Please enclose the proof of purchase and a description of the defect so that the problem can be rectified as soon as possible. The guarantee excludes damages caused by improper handling, related to the battery or to the packaging.

### Referenced norms








The thermometer complies with the requirements of European norm ISO 80601-2-56 and ISO 13485.

### Disposal note

 Defect devices or devices which are taken out of operation at the end of their service life may still contain residues which could present a risk to the environment. Please dispose of the device in a suitable and correct way at a collection point for old electrical items.

 Batteries must be disposed of correctly. There are containers for battery disposal at battery dealers and in communal collection points.

### Explanation of symbols

	<b>Manufacturer</b>
 0197	<b>CE-sign of a notified body (TÜV Rheinland)</b>
	<b>EU representative</b>
	<b>Product type BF</b>
	<b>Disposal notes</b>
	<b>Product period (month/year)</b>
	<b>Read the instruction manual</b>

### Importer & after-sales service

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