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**Infrared-Ear-Thermometer
SC 8172**



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. 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.
8. Do not touch the probe, unless the device is on the measuring.
9. The device is not water resistance, please keep dry.
10. Do not drop the thermometer or expose it to heavy shock.
11. Do not bite or swallow the probe and the battery cover.
12. Do not let thermometer come into contact with any thinner or chemical solvents.
13. Components may be harmful if swallowed. Contact a physician immediately should this occur.
14. Do not use if the display malfunctions or it operates irregularly.
15. Do not put this unit in dishwasher.
16. 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.
17. 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.

18. ORAL TEMPERATURES READINGS ARE OFTEN 0,5°C LOWER THAN ACTUAL BODY TEMPERATURE READINGS.

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

20. The thermometer is a direct mode thermometer. Reference site is ear and the measuring side is ear.



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. 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 body (human) temperature. 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.

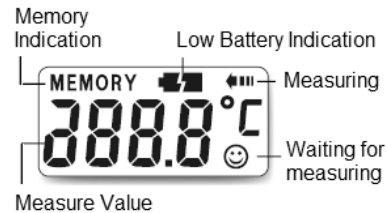
ABOUT BODY TEMPERATURE

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.

DEVICE OVERVIEW



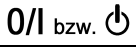







DISPLAY OVERVIEW


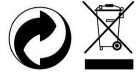







QUICK START

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 measuring process will begin after the smile appears, you hear two short beeps and either °C appears.
3. Place the Probe inside the ear canal then press the START Button.
4. Read the temperature on the LC Display.

EXPLANATION OF SYMBOLS

 0/I bzw. 	ON/OFF Button
	Wait for measuring
	Measuring
	Low battery indication
MEMORY	Memory indication
 0197	CE marking in conformity with EC directive 93/42/EEC and subsequent changes.
	Please read thoroughly before using.
	Keep dry
IP 20	2: Protected against solid foreign objects of 12,5 mm diameter and greater. 0: Non-protected Enclosures classified according to degree of protection against ingress 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).

	Power off
	Disposal notes
RoHS conform 2011/65/EU	This 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
	Warning and Caution
LOT MMY	Production period (month / year)
	Manufacturer
EC REP	Authorized Representative in the EU
START	START Button
	No PHT

BATTERY INSTALLATION

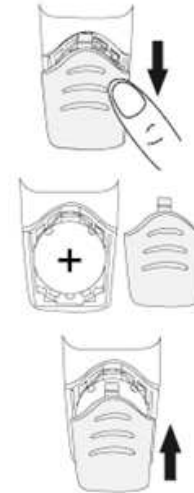


Warning

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.



CONTRAINDICATIONS

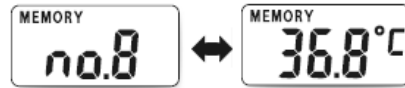
1. Place the probe in scarred tissue or tissue compromised by any disorders of measuring site.
2. Patients in trauma or treat with certain drug therapies of measuring site.
3. Place the device on measuring site exposed to direct sunlight, fireplace heat, cold compress therapies, air condition flow, etc.

MEMORY FUNCTIONS

Recall memories

1. When the unit is off, press and hold the ON/OFF Button around 3 seconds until the last memory shows.
2. You may continue to press and release the ON/OFF Button to recall up to 9 previous records.

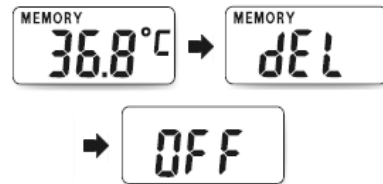
- Discontinue pressing the ON/OFF Button to stop recalling memories.



- The device is ready to do a new measurement.

Deleting memories

- Repeat the step 1 and step 2 of recalling memories.
- Press and hold the ON/OFF Button around 3 seconds until "dEL" is displayed.
- Press and release the ON/OFF Button again to delete all stored records in the device's memory.



- The device will power off automatically.

Delete single memory

In recalling memory mode, press START Button to delete current memory and the rest memory will be shift forwardly.

Otherwise

- To stop deleting memories, do not press the ON/OFF Button when you see "dEL".
- Then the device will return to the step 3 of recalling memories, or wait about 2 seconds more and the device will beep twice, it is ready to do a new measurement.

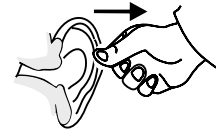
MEASUREMENT CONSIDERATION



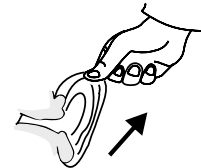
Caution

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

- Straighten the ear canal.
For children under 12 months:
Make the ear canal straight by gently pulling the ear backward.



- For children over 12 months and adults:
Make the ear canal straight by gently pulling the ear backward and upward.



- Place the Probe inside the ear canal

DOING A MEASUREMENT



Caution


- Clean the Probe before and after each measurement to prevent cross-contamination. See **Cleaning and Disinfection**.
- After cleaning the probe, please wait for 2 minutes at least to do a measurement.


- Press the ON/OFF Button to turn on the device, it will do auto self-diagnosis.
- When all symbols appear on the display, the self-diagnosis is finished. Start measuring the temperature.
- Press and release the START Button to start measurement.
- The measurement is done when you hear two long beeps.
- You can take next measurement when the smile stops blinking.

6. The temperature will shown on the LC Display.
7. The device fever alarm will beep continuously when the temperature reading is over 37,5°C.
8. Press and hold the ON/OFF Button firmly for 5 seconds, it shows OFF with a long beep then turns off the unit. The unit will show OFF then turn off with a long beep automatically if no use within 60 seconds.

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 STORE





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 Ear canal
 Measuring time 3 seconds
 Measuring range 32,2°C - 43,3°C
 Accuracy 34,0°C - 43,0°C: +/-0,2°C
 other range +/-0,4°C
 Measuring unit °C
 Resolution 0,1°C
 Memory sets 9
 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
 Clinical repeatability less than + 0,3°C
 Battery 1 x CR2032
 Battery life approx. 1.000
 measurements
 Auto shut off after 60 seconds of no use
 Dimension 148 x 29 x 49 mm
 Weight 42 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.

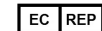
WARRANTY

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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