

**No-Touch
Forehead Thermometer
ET720
Instruction Manual**

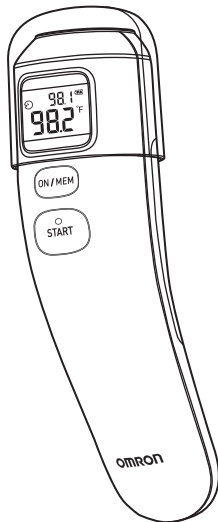


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Introduction

Thank you for purchasing the OMRON ET720 No-Touch Forehead Thermometer. This thermometer is mainly designed for general household use.

Safety Instructions

This instruction manual provides you with important information about the OMRON ET720. To ensure the safe and proper use of this thermometer, READ and UNDERSTAND all of these instructions. **If you do not understand these instructions or have any questions, contact 1-800-634-4350 before using this thermometer.**

Intended Use

The No-Touch Forehead Thermometer, Model ET720 (MC-720-Z) is an infrared thermometer intended for the intermittent measurement of human body temperature in people of all ages.

Intended Operator

Have eight years of education, no maximum.

Receiving and Inspection

Remove this thermometer and other components from the packaging and inspect for damage. If this thermometer or any other components are damaged, DO NOT USE and contact 1-800-634-4350.

Symbols Glossary

For symbol information, visit: [OmronHealthcare.com/symbols-glossary](https://www.OmronHealthcare.com/symbols-glossary).

Important Safety Information

Read the Important Safety Information in this instruction manual before using this device.

Follow this instruction manual thoroughly for your safety.

Warning

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

- Conducting self-diagnosis based on the measurement results can be dangerous. Consult with and follow the instructions of your doctor.
- A high or prolonged fever requires medical attention, especially for small children. Please contact your doctor.
- Keep this unit out of the reach of infants, toddlers and children.
- DO NOT throw the battery into a fire. The battery may explode.
- DO NOT use the device with other medical electrical (ME) equipment simultaneously. This may result in incorrect operation of the device and/or cause an inaccurate reading.

Caution

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient, or cause damage to the equipment or other property.

- If a child swallows the battery, immediately consult with a doctor.
- Remove the battery when the unit will not be used for three months or more. Failure to do so may lead to fluid leakage, heat generation or bursting, resulting in damage to the unit.
- DO NOT drop or subject this unit to strong shocks or vibrations.
- The main unit is not waterproof. Be careful when handling this unit so that no liquid gets into the thermometer. When the unit is wet with steam, wipe it lightly with a soft dry cloth.
- DO NOT disassemble, repair, or modify the unit.

Important Safety Information

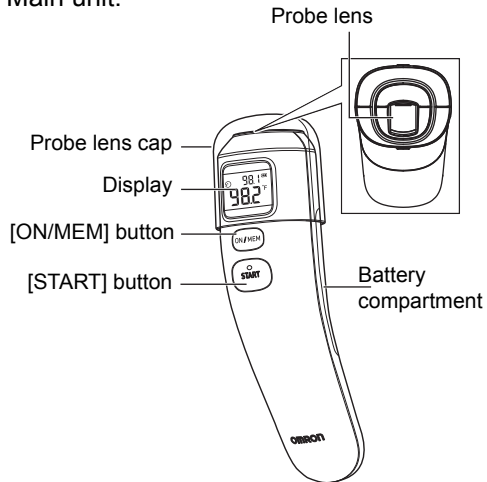
- If there is any temperature difference between the places where the unit is stored and where you are going to measure, leave the unit in the room where you are going to use it for more than 30 minutes to allow it to reach room temperature first, then measure.
- If the forehead is cold, wait until the forehead is warmed up before taking a temperature measurement. The measured result may indicate low when you use an ice bag or an ice pack, or immediately after coming in from the outside in winter.
- DO NOT use the unit when the forehead is wet, such as after swimming, bathing, or through sweating after physical exercise, because skin temperature may have fallen. Wipe away moisture and allow 30 minutes for the body to acclimate to room temperature before measuring.
- DO NOT touch the probe lens with a finger or breathe on it.
- DO NOT attempt measurements when the unit is wet because readings may be inaccurate.
- Check the icon on the display before and after the measurement to ensure the measurement is taken in the appropriate mode.
- When you inform your doctor of your temperature, make sure that you specify that the temperature was measured on the forehead.
- Dispose of the device, batteries, components according to applicable local regulations. Unlawful disposal may cause environmental pollution.
- During measurement, make sure that no mobile device or any other electrical devices that emit electromagnetic fields is within 12 inches (30 cm) of this device. This may result in incorrect operation of the device and/or cause an inaccurate reading.
- There is no gender and age limitation for using the infrared thermometer.
- This is not an AP or APG product.
- Forehead temperature is displayed in oral mode. This mode converts the forehead temperature to display its “oral-equivalent” value.
- Remember to keep the forehead area clean and away from sweat, cosmetics and scar while taking temperature.
- The “Clinical Bias” is -2.5 to -3.1 °F (-1.4 to -1.7 °C).
- The “Limits of Agreement” is 1.76 °F (0.98 °C).

Important Safety Information

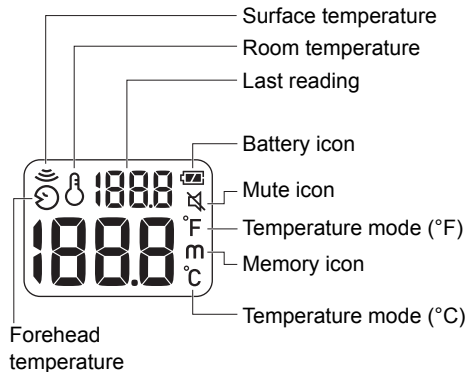
- The “Repeatability” is 0.36 °F (0.20 °C).
- The probe lens is the most delicate part of the thermometer. Use with care when cleaning the probe lens to avoid damage.
 - a. When the probe lens becomes dirty, wipe it lightly with a soft dry cloth or a cotton swab. DO NOT wipe the probe lens with tissue paper or a paper towel.
 - b. Use a 70 to 75 % alcohol swabs or cotton swabs moistened with 70 to 75 % alcohol to clean the probe lens.
 - c. Allow the probe to fully dry for at least 1 minute.
 - d. Keep the unit dry and away from any liquids and direct sunlight.
 - e. Storage temperature range: It should be stored at room temperature between -4 and +140 °F (-20 and +60 °C), 10 and 95 %RH.
 - f. The Probe should not be submerged into liquids.

1. Overview

Main unit:



Display:



2. Preparation

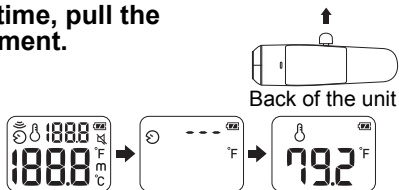
2.1 Removing the Insulating Tape

When using the thermometer for the first time, pull the insulating tape out of the battery compartment.

The unit will turn on and after 1 minute the room temperature appears on the display.

Note:

- The room temperature remains on the display even after the unit turns off.
- Place the unit on a level surface, in a place that is at room temperature (away from direct sunlight or air conditioning, etc.).



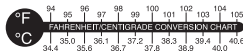
2.2 Switching between “°F” and “°C”

This unit is set to “°F” as default.

1. While the room temperature is displayed, press and hold the [START] button.
2. While holding it down, press and hold the [ON/MEM] button until “°C” appears on the display with two beeps.

Note:

- To select “°F” again, start from step 1.
- When the unit is switched between “°F” and “°C”, all the readings stored in the memory are deleted.



2.3 Setting the Buzzer

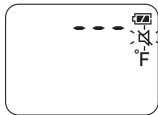
The buzzer is activated by default, but can be deactivated.

Note: The buzzer is only available in forehead measurement mode.

1. Press the [ON/MEM] button.

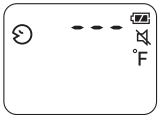
2. Press and hold the [ON/MEM] button for 3 seconds.

The “” icon flashes on the display.



3. Release the [ON/MEM] button.

The “” icon remains lit and the buzzer is deactivated.



Note:

- If the [ON/MEM] button is pressed down for more than 5 seconds after the “” icon starts flashing, “OFF” appears on the display and the display will flash off, and then turn back on with the room temperature continually showing on the display. The buzzer will still be deactivated.
- To activate the buzzer again, start from step 1.

3. Using the Unit

3.1 Taking a Reading

Forehead Measurement Mode

This mode displays the oral-equivalent value of the measured forehead temperature.

Always make sure the probe lens is clean and undamaged, and the forehead is clean with no sweat, cosmetics, scars, etc.

Prior to measurement, ensure that the patient has not taken a bath or exercised within the last 30 minutes, and has remained in a stable environment for at least 5 minutes.

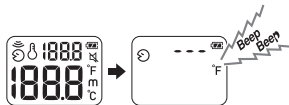
It is recommended to take 3 measurements. If the three measurements are different, select the highest temperature.

1. Gently pull off the probe lens cap to remove it.

2. Press the [ON/MEM] button.

All indicators appear on the display for 1 second.

Then the display shown on the far right appears with two beeps.



3. Hold the probe lens 0.4 to 1.2 inches (1 to 3 cm) away from the center of the forehead.

Note:

- Holding the unit too long in the hand may cause a higher ambient temperature reading of the probe. This could make the body temperature measurement lower than usual.
- Keep still during measurement.



4. Press the [START] button.

The measurement is complete in 1 second with a long beep.

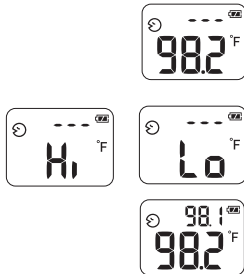


5. Move the unit away from the forehead and check the measurement result.

The display lights up for 5 seconds.

Note:

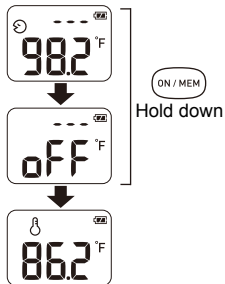
- If the result is higher than 108.0 °F (42.2 °C), “Hi” appears on the display.
If the result is lower than 93.2 °F (34.0 °C), “Lo” appears on the display.
- You can take another measurement after the display light turns off with two beeps. Make sure the “☺” icon remains lit.
- After the second measurement, the first measurement is displayed in the right corner, while the second is displayed in the center.



6. Press and hold the [ON/MEM] button until “OFF” appears on the display.

“OFF” appears on the display and the display will flash off, and then turn back on with the room temperature continually showing on the display.

- The measurement results are stored in memory automatically.
- If the thermometer is not used, after 1 minute the device will automatically switch to room temperature measurement mode, and the room temperature will appear on the display.



3. Using the Unit

Surface Measurement Mode

Surface measurement mode shows the actual and unadjusted surface temperature of an object, which is different from the body temperature. This mode can help you determine if the object temperature is suitable for a patient or baby (such as baby milk).

The unit is set to forehead measurement mode as default. Follow the steps below to switch to surface measurement mode.

- 1. Press the [ON/MEM] button.**
- 2. Press and hold the [ON/MEM] button. While holding it down, press the [START] button.**

The “☺” icon appears on the display.



- 3. Move the unit close to the object and press the [START] button.**

It measures continuously until the [START] button is released.



3. Using the Unit

Note:

- Move the probe lens as close to the object as possible when using in surface measurement mode (0.4 inches (1 cm) apart is recommended). Do not touch the probe lens to the object directly.
- Surface measurement mode shows the surface temperature reading. The surface and internal temperature may be different. Make sure it is safe when measuring an object with extremely high or low temperature.
- The display does not light up and the buzzer is off when using this mode.
- To switch to forehead measurement mode, go back to step 2 and make sure the ☺ icon changes to the ☹ icon.
- To manually finish surface measurement mode, press and hold the [ON/MEM] button until "OFF" appears on the display. The device will automatically switch to room temperature mode and the room temperature will appear back on the display.
- If no additional surface measurements are taken, after 1 minute the device will automatically switch to room temperature mode and the room temperature will appear on the display.
- Surface measurement mode is not intended for body temperature measurement or medical use.
- **To prevent damage to this thermometer, DO NOT** use this thermometer to measure any item with a temperature higher than 176.0 °F (80.0 °C).
- **DO NOT** use this unit other than for measuring human forehead temperature and/or surface measurement and/or room temperature.
- When taking the temperature of an object with low emissivity such as gold or aluminum, inaccurate readings may result.
- When taking the temperature of something with low emissivity (such as milk) in surface measurement mode, slightly lower readings may result.

3. Using the Unit

3.2 Using the Memory Function

This unit automatically stores the last 25 measurement results (excluding Hi/Lo results).

Note:

- If the memory is full, the unit will delete the oldest reading.
- When the unit is switched between “°F” and “°C”, all the readings stored in the memory are deleted.

1. Press the [ON/MEM] button.

2. Press the [ON/MEM] button again.

The memory number appears on the display.



3. Release the [ON/MEM] button.

The most recent result appears on the display.

Press the [ON/MEM] button repeatedly to view the older results.



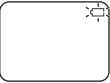
4. Press and hold the [ON/MEM] button until “OFF” appears on the display.

“OFF” appears on the display, and then the room temperature appears on it.

4. Troubleshooting and Maintenance

4.1 The Icons and Error Messages

In case of any of the below problems occur during measurement, check that no other electrical device is within 12 inches (30 cm) of the device. If the problem persists, please refer to the table below.

Error Display	Possible Cause	Solution
	Battery is low.	Replace the battery. (Refer to sub-section 4.4)
	Measurement before unit is ready.	Wait until all the icons stop flashing.
	The unit is showing a rapid ambient temperature change.	Leave the unit in a location where the temperature is between 50 and 104 °F (10 and 40 °C) for at least 30 minutes.
	The ambient temperature is not within the range between 50 and 104 °F (10 and 40 °C).	

4. Troubleshooting and Maintenance

Error Display	Possible Cause	Solution
	Errors 5 - 9 indicate a malfunction of the unit.	Remove the battery, wait for 1 minute, and reinsert the battery again. If the message still appears, please contact OMRON customer service.
 	• Forehead measurement mode: The temperature reading is higher than 108 °F (+42.2 °C). • Surface measurement mode: The temperature reading is higher than 176 °F (+80 °C).	Use the unit within its measurable range. If a malfunction still exists, please contact OMRON customer service.
 	• Forehead measurement mode: The temperature reading is lower than 93.2 °F (+34 °C). • Surface measurement mode: The temperature reading is lower than -7.6 °F (-22 °C).	Use the unit within its measurable range. If a malfunction still exists, please contact OMRON customer service.

4. Troubleshooting and Maintenance

Error Display	Possible Cause	Solution
 Remains on the display.	The battery is depleted.	Change to a new battery. (Refer to sub-section 4.4)

4.2 Questions and Answers

1. The temperature indicated is rather high.

- The unit has been stored in a cold room.
When the unit has been stored in a cold room, the measured temperature may be rather high if you measure the temperature shortly after bringing the unit to a room that is at normal temperature. Measure temperature after leaving the unit for 30 minutes in the room where it will be used. It is recommended to store the unit in the room where you are going to measure temperature.
- The probe lens has been exposed to direct sunlight.
- Measurement was taken shortly after the subject cried. Crying can increase facial temperature.

2. The temperature indicated is rather low.

- The skin is wet.
Do not use the unit when wet after swimming, bathing, or through sweating after physical exercise, as skin temperature may have fallen. Wipe away moisture and allow 30 minutes for the body to acclimate to room temperature before measuring.
- The probe lens is dirty.
- Measurement was taken in surface temperature mode.
Use forehead measurement mode.
- Measurement was taken shortly after the subject was outdoors in cold weather.
Wait until the forehead has warmed up.
- Measurement was taken at a location other than the forehead.
Be sure to measure exactly at the forehead, not surrounding areas such as the hairline.

4. Troubleshooting and Maintenance

3. There are variances in the measurement values.

- Measurements were not taken at the same location.
- The probe lens is dirty.

4. The temperature measured on this unit is not equivalent to oral-temperature.

- No-Touch Forehead Thermometer may not always calculate the exact oral-equivalent value.
It is recommended to take regular oral measurements on subjects such as family members, etc., who are in good physical condition, to know their normal temperature.

4.3 Maintenance

- Check the unit can be operated properly if it is dropped. If unsure, please contact OMRON customer service to have the unit checked.
- When the probe lens becomes dirty, wipe it lightly with a soft dry cloth or a cotton swab.
Do not wipe the probe lens with tissue paper or a paper towel.
- Clean the probe lens carefully to avoid damaging it.
 - Use a 70 to 75 % alcohol swab or soft cotton moistened with 70 to 75 % alcohol to clean the probe lens.
 - Allow the probe lens to fully dry for at least 1 minute before use.
- To avoid damage to the unit, do not store the unit in places such as:
 - Wet locations.
 - Locations with high heat and humidity or those that are exposed to direct sunlight.
 - Areas close to heating equipment, dusty locations, or environments where there are high salt concentrations in the air.
 - Locations where the unit will be tilted, falling, shock, or vibration.
 - Pharmaceutical storage areas or locations where corrosive gases are present.

4.4 Replacing the Battery

Battery: CR2032 lithium button battery

Use the battery in accordance to the battery life.

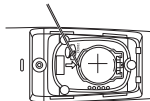
Note: To protect the environment, discard the used batteries in accordance with the local regulations.

1. Release the screw and remove the battery cover.



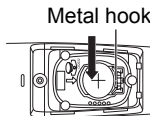
2. Remove the battery with a pointed object such as a pen or pencil.

Note: Do not use a metal tool as it may damage the surrounding parts.



3. Insert the new battery under the metal hook on the right side and press the left side of the battery down until it clicks.

Note: Replace the new battery with the plus (+) side on the top.



4. Close the battery cover and tighten the screw.

5. Specifications

Product Name	No-Touch Forehead Thermometer
Model #	ET720 REF MC-720-Z
Sensor	Thermopile
Temperature Display	4-digit, °F display in 0.1 degree increments 3-digit, °C display in 0.1 degree increments
Accuracy	Forehead measurement mode $\pm 0.4^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$) within 95.0 to 107.6 °F (35.0 to 42.0 °C), $\pm 0.5^{\circ}\text{F}$ ($\pm 0.3^{\circ}\text{C}$) for other range Surface measurement mode $\pm 0.5^{\circ}\text{F}$ ($\pm 0.3^{\circ}\text{C}$) within 71.6 to 108.0 °F (22.0 to 42.2 °C). Outside this range, it is $\pm 3.6^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$) or $\pm 4\%$ (percentage of actual temperature), whichever is greater. Room temperature mode $\pm 3.6^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$) within 50 to 104 °F (10 to 40 °C). Out of this range, the measurement result can not meet the accuracy aforementioned.
Measurement Time	Fast 1 Second Measurement
Measurement Range	Forehead measurement mode 93.2 to 108.0 °F (34.0 to 42.2 °C) Surface measurement mode -7.6 to 176.0 °F (-22.0 to 80.0 °C) Room temperature mode 50 to 104 °F (10 to 40 °C)
Memory	25 Memories
Power Supply	3.0V DC, 1 CR2032 lithium button battery
Power Consumption	0.018 W
Durable Period	3 years
Battery Life	With a new battery, approx. 2,500 measurements or more

5. Specifications

Operating Conditions	+50 to +104 °F (+10 to +40 °C), 15 to 85 %RH (non-condensing), 700 to 1060 hPa
Storage Conditions	-4 to +140 °F (-20 to +60 °C), 10 to 95 %RH (non-condensing)
Protection against electric shock	Internally powered ME equipment
IP Classification	IP22
Applied Part	Type BF
Operation Mode	Continuous operation
Weight	Approx. 90 g (with battery installed)
Outer Dimensions	1.8"(W) × 6.0"(H) × 1.6"(D) (45 mm × 153 mm × 41 mm)
Package Contents	Main unit, test battery (CR2032 installed), probe lens cap, instruction manual.

Note:

- The specification may be changed without prior notice.
- This OMRON product is produced under the strict quality system of OMRON HEALTHCARE Co. Ltd., Japan.
- IP classification is degrees of protection provided by enclosures in accordance with IEC 60529.
The device is protected against solid foreign objects of 12.5 mm diameter and greater such as a finger, and against oblique falling water drops which may cause issues during a normal operation.
- The thermometer is calibrated at the time of manufacture. If at any time you question the accuracy of temperature measurements, please contact OMRON customer service.
- Operation mode classification complies with IEC 60601-1.
- This thermometer is an adjusted mode thermometer that converts the forehead temperature to display its "oral equivalent".

6. FCC Statement

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of FCC Rules, Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

7. Limited Warranty

The OMRON ET720 No-Touch Forehead Thermometer excluding batteries, is warranted to be free from defects in materials and workmanship appearing within 1 year from the date of purchase, when used in accordance with the instructions provided with the thermometer. The above warranty extends only to the original retail purchaser, and only to products purchased from an Omron authorized seller who is subject to and follows Omron's quality control standards, unless otherwise prohibited by law. We will, at our option, replace without charge any unit covered by the above warranty. Replacement is our only responsibility and your only remedy under the above warranty.

To obtain warranty service contact Customer Service by calling **1-800-634-4350** for the address of the inspection center and the return shipping and handling fee. Enclose the original printed receipt. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit. Because of possible loss in transit, we recommend insuring the product with return receipt requested.

FOREGOING IS THE SOLE WARRANTY PROVIDED BY OMRON IN CONNECTION WITH THIS PRODUCT, AND OMRON HEREBY DISCLAIMS ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IMPLIED WARRANTIES AND OTHER TERMS THAT MAY BE IMPOSED BY LAW, IF ANY, ARE LIMITED IN DURATION TO THE PERIOD OF THE ABOVE EXPRESS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

OMRON SHALL NOT BE LIABLE FOR LOSS OF USE OR ANY OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT COSTS, EXPENSES OR DAMAGES.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

7. Limited Warranty

This warranty provides you with specific legal rights, and you may have other rights which vary by jurisdiction. Because of special local requirements, some of the above limitations and exclusions may not apply to you.

FOR CUSTOMER SERVICE

Visit our web site at:
Call toll free:

OmronHealthcare.com
1-800-634-4350

8. Guidance and Manufacturer's Declaration

OMRON ET720 No-Touch Forehead Thermometer Information for
Accompanying Documents in the Scope of IEC60601-1-2:2014

Important information regarding Electromagnetic Compatibility (EMC)

ET720 conforms to IEC60601-1-2:2014 Electromagnetic Compatibility (EMC) standard.
Further documentation in accordance with this EMC standard is available at
OmronHealthcare.com/emc. Refer to the EMC information for ET720 on the website.

9. Some Useful Information

How the No-Touch Forehead Thermometer Works

This unit measures the temperature at the surface of the forehead by sensing infrared emission of the skin at the measured point, and then calculates the oral-equivalent value using a unique algorithm based on actual body temperature survey data.

About Body Temperature

Body temperature refers to the stable temperature of the inner body (also known as *core body temperature*). While temperature measurements at the armpit or mouth provides surface temperature values, holding the thermometer steadily at the measurement point for approx. 10 minutes provides a temperature measurement more closely representing that of core body temperature.

Since forehead temperature measurement involves no bodily support of the thermometer, the resulting measured temperature is typically lower than that of the armpit or mouth.

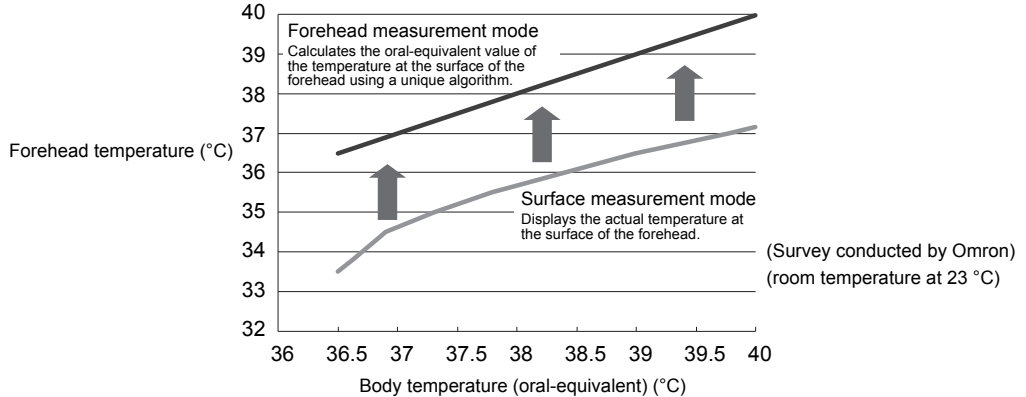
However, since the forehead has blood vessels that are much less prone to vascular constriction (a natural function of body temperature adjustment), it is supposedly a better measurement area for determining core body temperature, even in a lower temperature environment. By contrast, temperature measured at the arm or leg, for example, is not a suitable gauge of core body temperature, since such body areas are more subject to vascular constriction.

(Note that temperature measured at the forehead may still be influenced by other conditions, such as sweating, or wind from an air conditioner, etc. It is therefore advised to perform measurement in as stable an environment as possible.)

When measuring the temperature of an infant, note that infant body temperature is generally higher than adult body temperature and easily affected by external factors. For example, body temperature tends to increase after nursing or crying. Therefore, it is recommended to take measurements with the infant in calm and normal condition.

9. Some Useful Information

Temperature differences between body temperature and forehead temperature



This unit measures the temperature at the surface of the forehead by sensing infrared emission of the skin at the measured point, and then calculates the oral-equivalent value using a unique algorithm (forehead measurement mode) based on actual body temperature survey data.

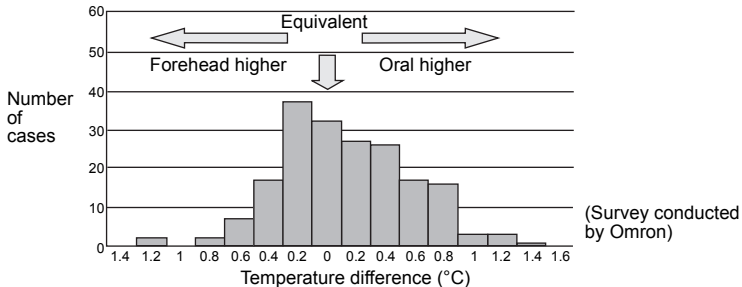
9. Some Useful Information

Knowing One's Normal Temperature

In order to make a correct judgment of suspected fever conditions, it is important to know one's normal temperature. Normal temperature varies with the individual and also changes depending on the time through a day. In addition, measured body temperatures may vary depending on the thermometer or the body part where you measure (see the graph "Variances in core body temperatures obtained at the forehead and mouth"). To find out one's normal temperature, therefore, we recommend performing regular measurements under the following conditions:

- Measure with the same thermometer.
- Measure at the same area.
- Measure at the same time of day.

Variances in core body temperatures obtained at the forehead and mouth
(Cases surveyed: 190, ages: 0 - 68, environment temperature: $23 \pm 2^\circ\text{C}$)





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Distributed by:

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