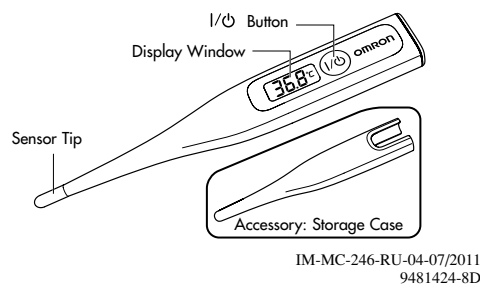


# OMRON

## DIGITAL THERMOMETER

### Model Eco Temp Basic



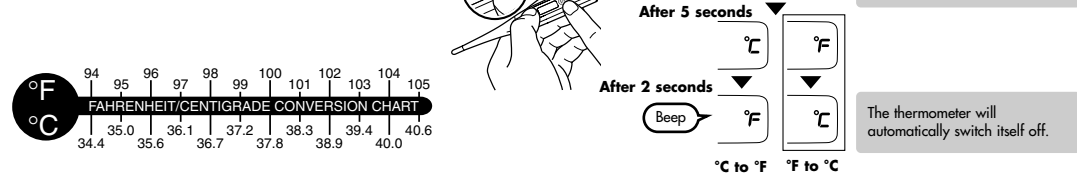
Thank you for purchasing the OMRON Digital Thermometer Eco Temp Basic. The thermometer you purchased offers a safe, accurate and quick temperature reading. You can measure your temperature either in the anus (rectally), in the mouth (orally) or in the armpit (axillary). This thermometer eliminates any worries about broken glass or mercury hazards. Note that your temperature is affected by smoking, eating or drinking. Contact your doctor if you have any questions regarding specific temperatures.

#### IMPORTANT SAFETY NOTES

- To assure the correct use of the product basic safety measures should always be followed including the precautions listed below.
- WARNING**
- A high or prolonged fever requires medical attention, especially for small children. Please contact your doctor.
  - Carefully read and follow the enclosed instructions to ensure accurate temperature readings. Note that temperature readings are affected by many factors including physical exertion, the drinking of hot or cold beverages before measurement, as well as measuring technique.
  - Please keep still during measurement.
  - The use of temperature readings for self-diagnosis is dangerous and may lead to the worsening of the existing conditions. Consult your doctor for the interpretation of the results.
  - This thermometer is used for taking temperatures through oral, rectal or armpit. Do not attempt to take temperatures at other sites, such as in the ear, as it may result in false readings and may lead to injury.
  - Store the thermometer out of the reach of children. Do not allow children to take their temperatures unattended. Children may injure themselves when attempting to take temperatures without supervision.
  - Do not leave the battery, battery cover or probe cover where children can get to them. Children may swallow them. Should a child swallow the battery, battery cover or probe cover, contact a doctor immediately.
  - Do not attempt measurements when the thermometer is wet as inaccurate readings may result.
- CAUTION**
- Do not bite down on the thermometer. Doing so may lead to breakage and/or injury.
  - Do not allow the thermometer to be shared among individuals.
  - Do not attempt to disassemble or repair the thermometer. Doing so may result in inaccurate readings.
  - Do not attempt to incinerate the battery. It may burst.
  - Pay attention to polarity (+/-) when replacing the battery. Failure to do so may lead to fluid leakage, heat generation or bursting, resulting in damage to the unit.
  - Remove the battery when the thermometer will not be used for 3 months or more. Failure to do so may lead to fluid leakage, heat generation or bursting, resulting in damage to the unit.
  - Do not use the thermometer in places where strong static electricity or electromagnetic fields are present. Doing so may lead to inaccurate readings and may contribute to instrument failure.
  - Do not attempt rectal measurements on persons with rectal disorders. Doing so may aggravate or worsen the disorder.
  - Do not step on the unit or the hard case.
- GENERAL SAFETY PRECAUTIONS**
- Do not use the thermometer to measure anything other than human body temperatures.
  - Do not drop the thermometer and storage case or expose them to shock or vibration.

#### SWITCHING BETWEEN FAHRENHEIT/CENTIGRADE (CELSIUS)

Press the I/O button for 7 seconds until a beep is emitted. The display will change to the other measurement system at the time when the beep sounds.



#### ARMPIT (AXILLARY) USE:

- The following may result in incorrect measurements when taking armpit temperatures:
- Heavy armpit perspiration
- Correct:** Wipe off any armpit perspiration before taking the temperature.
- Taking the temperature after being under the blankets for a long time.
- Place the probe tip in the center of the armpit.
  - Lock the probe tip under the arm, using the arm to slightly apply pressure inwards.
- Turn the display so that it faces inwards.**
- Thermometer Angle**  
The angle should be 35-45 degrees in relation to the arm.

#### BATTERY REPLACEMENT

**Battery:** Alkaline-Manganese Button Battery LR41 (available commercially)

#### Battery Replacement Indicator ( )

Replace the battery when the battery replacement indicator appears when the thermometer is switched on.

- Use a coin to take off the battery cover.
  - Remove the battery.
  - Insert the new battery with the "+" pole facing up as shown in the diagram.
  - Use a coin to replace the battery cover.
- NOTES:**
- The thermometer comes fitted with a battery for testing purposes. This battery may not provide the same amount of battery life as a new battery.
  - Do not loose the O-ring around the screw. Water-resistant will fail and can lead to misreadings and failure of the unit.

#### DISPLAY INDICATIONS AND TROUBLESHOOTING

INDICATOR	CAUSE	REMEDY
L (low)	Displayed when the temperature of the sensing section is less than 32°C (89.6°F).	This is not an error so it may be ignored and the temperature taken.
H (high)	Displayed when the temperature of the sensing section is higher than 42°C (107.6°F).	Cool the sensing section and then take the temperature.
Air Temperature Displayed	Displayed when the surrounding temperature exceeds 32°C (89.6°F).	
[37.0°C(98.6°F)] is not displayed during the measurement preparation period as a test display, after the most recent measurement result is displayed.	Turn the thermometer on and off several times. If a temperature other than that in the range from [36.9°C(98.4°F)] to [37.1°C(98.8°F)] is displayed as a test display, please contact your nearest authorized OMRON dealer.	

#### CLEANING AND DISINFECTING

OMRON recommends to wipe the device with damp cloth. For disinfection, 70% Ethanol or Isopropyl alcohol can be used. Do not attempt to disinfect the sensing section of the thermometer by immersing it in alcohol or in hot water (water over 50°C). Do not submerge this thermometer deeper than 15 cm and longer than 30 minutes.

#### TAKING THE TEMPERATURE

- Press the I/O button. The result of the previous measurement is displayed for a few seconds. Then 37.0°C (98.6°F) is displayed as an internal test-function. **NOTE:** When a temperature other than 37.0°C (98.6°F) is displayed, please refer to the "DISPLAY INDICATIONS AND TROUBLESHOOTING" section for details to correct the problem.
- Apply the thermometer to the measurement site. **NOTE:** Even if the "L" indicator fails to display (when only the temperature is displayed), this is not an error. The temperature may be taken as is.
- The Buzzer notification will emit a [beep-beep-beep] sound three times to reflect the earliest temperature indication. Remove the thermometer from the measurement site and read the result.

**Buzzer Notification Timing**

Oral : approx. 80 seconds    Rectal : approx. 60 seconds    Armpit : approx. 2 minutes\*

\* 2 minutes is the earliest estimated temperature indication. To complete the measurement, it is required to measure the temperature in the armpit between 5-10 minutes (depending on the ambient temperature and condition).

**NOTES:**

- The measurement continues even after the buzzer notification.
- The buzzer notification timing is based on an environmental temperature of 23 degrees.
- Since oral and armpit may give lower measurement results it is recommended to apply the device rectally to get the most accurate result.

**3. Turn off the thermometer. Clean and disinfect before returning it to its protective case.**

**NOTES:**

- The reading will automatically be stored in memory.
- Turn off the thermometer manually to conserve the battery. It will automatically switch off 30 minutes after use or 3 minutes when turned on but not used.

#### DISPLAYING THE LAST TEMPERATURE

Press the I/O button to display the temperature that was measured most recently. For details, please refer to the "TAKING THE TEMPERATURE" section.

#### CORRECT MEASUREMENT

Measurement accuracy cannot be assured when the method used to measure the temperature is incorrect. The following may result in incorrect measurements:

- Taking the temperature immediately after exercising, bathing, eating or drinking will result in an incorrect measurement. **Correct:** Wait at least 30 minutes before taking the temperature.
- Taking the temperature after moving around. **Correct:** Take the temperature immediately after waking up or wait for at least 30 minutes after moving around.
- Moving around after awakening increases the body temperature.

#### ORAL USE (for ages 4 and older):

- The mouth should remain closed up to 5 minutes before starting a reading.
- Place the thermometer in the mouth under the tongue so that it rests to the left or right of the root of the tongue.
  - Use downward tongue pressure to hold the thermometer in place.
  - Hold the thermometer to keep it from sliding around in the mouth.
- The display section is faced upwards.
- Placement Points
- Roof of Tongue
- Tongue

#### RECTAL USE:

- Commonly used for small children when it is difficult to take an oral or armpit temperature.
- Lubricate with non-irritating skin-friendly gel.
- Gently insert the probe tip no more than 1.3 cm into the rectum. Do not force the tip into the rectum if resistance is encountered.
- Disinfect the thermometer after use.

#### Storage

- Store the thermometer in its storage case.**
- Do not store the thermometer in the following types of places. Doing so may damage the thermometer.
    - 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 subjected to leaning, shock or vibration.
    - Pharmaceutical storage areas or locations where corrosive gases are present.

#### WARRANTY

This product is guaranteed by OMRON for 3 years after date of purchase. Any damage caused by improper handling shall not be covered by warranty. Batteries and packaging are also excluded from the warranty. All other damage claims excluded. A warranty claim must be submitted with the purchase receipt.

#### SPECIFICATIONS

<b>Product type and number:</b> Digital Thermometer MC-246-RU	<b>Power Supply:</b> 1.5V DC, 1 LR41 Alkaline-Manganese Button Battery
<b>Product Name:</b> Eco Temp Basic	<b>Battery Life:</b> Approx. 2 years or more (3 times per day)
<b>Power Consumption:</b> 0.1 mW	<b>Measurement Method:</b> Actual measurement (non-predictive)
<b>Sensing Unit:</b> Thermistor	<b>Applied Part:</b> =Type B
<b>Temperature Display:</b> 3 digits (°C), or 4 digits (°F) display in 0.1 degree increments	
<b>Measurement Accuracy:</b> ±0.1°C (32.0 to 42.0°C) ±0.2°F (89.6 to 107.6°F) (when measured at a standard room temperature of 23°C (73.4°F) in a test tank held at constant temperature)	
<b>Measurement Range:</b> 32.0 to 42.0°C (89.6 to 107.6°F)	
<b>Usage Environment:</b> Surrounding temperature +10 to +40°C (+50 to +104°F), Relative Humidity 30-85%RH	
<b>Temp and Humidity:</b> Surrounding temperature -20 to +60°C (-4 to +140°F), Relative Humidity 10-95%RH	
<b>Storage Environment:</b> Surrounding temperature -20 to +60°C (-4 to +140°F), Relative Humidity 10-95%RH	
<b>Weight:</b> Approx. 12g (with battery installed)	
<b>External Dimensions:</b> 49.4 mm (w) × 132.5 mm (l) × 10.0 mm (d)	
<b>Accessories:</b> Test Battery (Alkaline-Manganese Button Battery LR41), Storage Case, Instruction Sheet.	

- NOTES:**
- The specification may be changed without prior notice.
  - This unit is water-resistant.
  - The tip of the thermometer contains Nickel.
  - This thermometer does not contain any serviceable part. OMRON recommends that the accuracy is verified every two years by OMRON's representative.
- This OMRON product is produced under the strict quality system of OMRON Healthcare Co. Ltd., Japan.

This device fulfills the provisions of the EC directive 93/42/EEC (Medical Device Directive) and the European Standard EN12470:2000, Clinical thermometers - Part 3: Performance of compact electrical thermometers (non-predictive and predictive) with maximum device.

**Important information regarding Electro Magnetic Compatibility (EMC)**  
With the increased number of electronic devices such as PCs and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation. Medical devices should also not interfere with other devices.

**Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**  
This marking shown on the product or its literature, indicates that it should not be disposed of, with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN60601-1-2:2007 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

This medical device manufactured by OMRON Healthcare conforms to this EN60601-1-2:2007 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

- Do not use mobile (cellular) telephones and other devices, which generate strong electrical or electromagnetic fields, near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Recommendation is to keep a minimum distance of 7 m. Verify correct operation of the device in case the distance is shorter.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

This product does not contain any hazardous substances.

Disposal of used batteries should be carried out in accordance with the national regulations for the disposal of batteries.

Further documentation in accordance with EN60601-1-2:2007 is available at OMRON Healthcare Europe at the address mentioned in this instruction manual. Documentation is also available at [www.omron-healthcare.com](http://www.omron-healthcare.com).

#### CE 0197

Read the Instructions in this manual carefully.

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