

Metene

Dual Mode Infrared Thermometer

English

Deutsche

Français

Italiano

Español



User Manual

Thank you for purchasing METENE Infrared Dual Mode Thermometer. This device offers rapid reading and simple operation for measuring both eardrum and forehead temperature. This multi-functionality offers a safer and simpler solution in temperature analysis for subjects ranging from the age of infancy to seniors. It eliminates the potential dangers of glass thermometers and mercury with highly accurate infrared scanning measurement. Know body temperatures in an instant and recall from a history of up to 20 past measurement results. The Dual Mode Thermometer also includes a fever alert when results are high, so you can act fast for a quicker recovery. A simpler life starts here.

IMPORTANT: Please read, understand, and comply with all the instructions provided in this manual before using the device. Failure to comply with the instructions given in this manual and/or using the device in ways other than the ones mentioned in this manual may result in serious injury and/or damage to the product.

NOTE: The thermometer has a precision of $\pm 0.2^{\circ}\text{C}$ ($\pm 0.4^{\circ}\text{F}$). Should you ever receive a high fever alert from the thermometer, it is recommended to consult your primary physician before taking any further action.

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◆ Safety Use & Care

- The thermometer is intended for indoor use. Wind turbulence will adversely affect the accuracy of the device.
- Keep the thermometer out of children's reach.
- **DO NOT** use this device on newborn infants.
- This device is not intended for continuous monitoring.
- It is recommended to clean the thermometer sensor after each use with a cotton swab and rubbing alcohol.
- **To avoid result inaccuracy, DO NOT clean directly before use.**
- **DO NOT** touch or blow on the sensor's probe tip.
- Avoid measuring temperature for at least 30 minutes after exercise, bathing, or returning from the outdoors.
- **DO NOT** submerge the thermometer in any type of liquid, it is not waterproof.
- If the device shows any sign of damage, do not use it. Contact customer service for assistance .
- **DO NOT** tamper with the thermometer's internal components. Doing so will invalidate the warranty on this device and may cause damage.
- **DO NOT** subject the device to excessive force,

shock, dust, temperature or humidity. This may result in malfunction, shorter electronic life span, damaged battery and/or distorted parts.

- This device is not intended to substitute any advice given by a physician, pharmacist, or other licensed health-care professional. You should not use this product for self-diagnosis or for treating a health problem. Contact your health-care provider immediately if you suspect that you have a medical problem.
- **DO NOT** use the product in a wet ear canal or on foreheads with heavy perspiration. Doing so may cause inaccuracy in the temperature results.
- It is not recommended to use the product on subjects suffering from any ear disease or infection including otitis externa or tympanitis, as this may aggravate such conditions.
- If the device fails to turn on, check whether the batteries are installed correctly. Replace the batteries if necessary.
- If the thermometer is not in use for an extended period of time, remove the batteries to conserve battery lifetime.
- If there is a large difference between two consecutive temperature results, wait 10 minutes before retaking temperature measurements with the thermometer.

- The thermometer contains sensitive electronic components that should not be used under conditions with electromagnetic interference.

◆ Features

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- ABS Plastic
- Infrared temperature measurement
- Measure forehead and ear temperature
- Backlit display
- Fever warning buzzer (37.5°C / 99.5°F or higher)
- Memory recall of 20 previous readings
- Temperature Units: °C / °F
- Forehead Temperature Range: 32°C ~ 42.2°C (89.6°F~107.9°F)
- Eardrum Temperature Range: 0°C ~ 100.0°C (32.0°F~212.0°F)
- Precision: $\pm 0.2^{\circ}\text{C}$ / $\pm 0.4^{\circ}\text{F}$
- Working Temperature: 10°C ~ 40°C (50°F~104°F)
- Working Humidity: <80% RH, non-condensing
- Atmospheric Pressure: 860hPa ~ 1060hPa
- Display Resolution: 0.1°C / 0.1°F
- Latency Time: 1 second
- Sound: $\geq 50\text{db}$

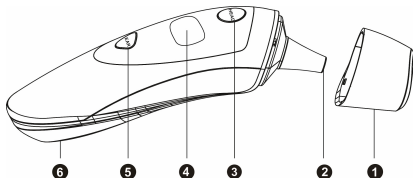
- Auto-Off: 10 ± 1 second
- Battery: 2 x AAA 1.5V batteries

② Current Consumption

Standby	$<2\mu\text{A}$
Working	$<0.5\text{mA}$
Buzzer	$<2\text{mA}$
Backlight	$<15\text{mA}$

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③ Function Diagram



1. Eardrum sensor cover
2. Sensor
3. HEAD: Forehead temperature analysis
4. LCD display
5. EAR: Eardrum temperature analysis
6. Battery compartment

◆ Icon Key

Icon	Message
H°C	The measured value is over the maximum temperature range.
L°C	The measured value is below the minimum temperature range.
?	Eardrum temperature measurement mode.
😊	Forehead temperature measurement mode.
🏠	Temperature is above of the normal human body temperature. (89.6°F ~ 107.9°F / 32°C ~ 42.2°C).
M	Memory recall mode.

◆ Set-Up

The 2 AAA 1.5V batteries are preinstalled in the device battery compartment. Open the battery compartment cover located on the thermometer handle and remove the protective plastic film. Re-apply the batteries under the correct polarity and reseal the battery compartment in order to activate the thermometer.

◆ Operation

Forehead Temperature Analysis

1. Before measuring forehead temperature, make sure there is no water, sweat, or direct sunlight on the forehead.
2. Press and hold 'HEAD' while **slowly scanning** the entire forehead from one temple to the other. Make sure to keep the thermometer **in contact with** the forehead at all times while moving from one side of the forehead to another.
3. Release the 'HEAD' button. The temperature results will appear on the LCD display. A second measurement may be taken once the LCD backlight turns off.

NOTE: Keeping the infrared scanner at one point may affect the accuracy of temperature results. Make sure to move the thermometer across and in contact with the forehead for better temperature result accuracy.

Eardrum Temperature Analysis

1. Remove the sensor plastic cover.
2. Before measuring eardrum temperature, clean out the ear canal.
3. Gently insert the sensor tip fully into the ear canal.
4. Press 'EAR' while holding the sensor in the ear canal. The thermometer will chime and the temperature results will appear on the LCD display.

Note: Make sure to dry the ear canal and keep the sensor contact with ear canal for better temperature result accuracy.

Fever Alert: When measuring temperature in either of the two modes, the thermometer will sound 7 short ticks and the LCD display will flicker if the reading results exceed 37.5°C / 99.5°F to indicate that the subject may have a fever.

Auto-Off: If left idle for 10 seconds, the thermometer will shut off automatically to conserve battery lifetime.

Memory Recall

1. When the thermometer is on standby, press and hold the 'EAR' button for 4 to 8 seconds. The LCD screen will display ' - - M' with the 'M' letter blinking.
2. Press 'EAR' once more and the LCD screen will display data with a corresponding icon indicating what mode the results are under.

Unit Conversion

While the device is off, press and hold 'EAR' for 8 to 12 seconds. The current unit of measurement will appear. Press 'EAR' once more to change and select the desired unit. **NOTE:** While holding the 'EAR' button, the memory interface will first appear. Keep holding the button until the unit changing interface appears.

◆ Cleaning and Maintenance

Inaccurate results may occur if the thermometer is not regularly cleaned. The thermometer sensor is extremely sensitive to dirt and oil, so make sure to check that it is clean before each use. If cleaning is necessary, gently clean with medical alcohol and a cotton swab or Q-tip until the sensor is no longer dull or lackluster.

◆ Error Indications

Error Message	Reason	Indication
"Er 1"	Ambient temperature exceeds 40°C / 104°F or is below 10°C / 50°F minimum readable temperature	3 short ticks and green backlight activation for 3 seconds
"ErC"	EEPROM data reading error (contact customer service) or Incomplete analysis	3 short ticks and green backlight activation for 3 seconds
	Battery power is low, replace the batteries	

◆ Troubleshooting

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Symptom	Possible Cause	Solution
The difference in consecutive measurements is too high. (Forehead)	Physical condition is unstable.	Allow the subject to rest for about 30 minute before trying again.
	Unreadable status.	Make sure the forehead is completely clean and dry without any perspiration. Also, make sure that the subject is not in direct sunlight during measurement.
	Measurement operation error.	Make sure to slowly scan across the forehead while keeping in contact. Do not keep the sensor in place when measuring forehead temperature.
	Sensor too far.	Make sure the probe is in contact with the forehead when scanning.

Symptom	Possible Cause	Solution
The difference in consecutive measurements is too high. (Forehead)	Faulty device.	If your warranty has not expired, contact customer support.
The difference in consecutive measurements is too high. (Ear Canal)	Physical condition is unstable.	Allow the subject to rest for about 30 minute before trying again.
	Unreadable status.	Make sure the ear canal and eardrum is completely clean and dry before measurement.
	Incorrect sensor placement.	Make sure the sensor is fully inside the ear canal without harming the subject.
	Faulty device.	If your warranty has not expired, contact customer support.

NOTE: Normal human body temperatures vary depending on the body location. When taking temperature from different parts of your body, it is normal to obtain a slight variation in the temperature readings. An ear (tympanic) temperature is usually $0.5-1^{\circ}\text{F}$ ($0.3-0.6^{\circ}\text{C}$) higher than an oral temperature, whereas a forehead (temporal) temperature is usually $0.5-1^{\circ}\text{F}$ ($0.3-0.6^{\circ}\text{C}$) lower than an oral temperature. Therefore, it is **NORMAL** to get **$1-2^{\circ}\text{F}$ ($0.6-1.2^{\circ}\text{C}$)** difference between an ear measurement versus a forehead measurement. This is NOT due to the inaccuracy of the thermometer.

◆ Package Contents

- 1 x Dual Mode Thermometer
- 1 x Storage Bag
- 2 x AAA 1.5V batteries (installed)
- 1 x User Manual



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