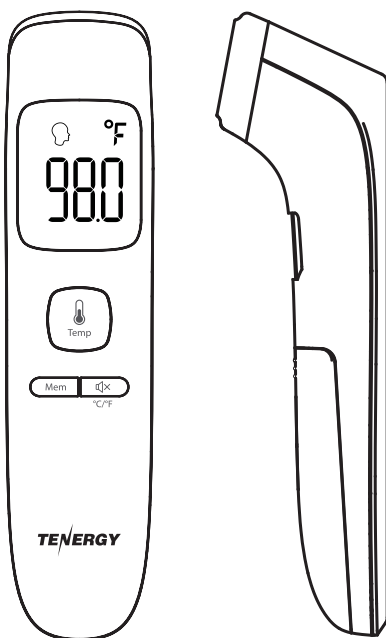


# INFRARED THERMOMETER

## USER MANUAL





Please read these instructions carefully before using this product and keep these instructions in a safe place

## WHAT'S IN THE BOX



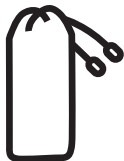
Thermometer



2x AAA Battery



User Manual



Storage Pouch

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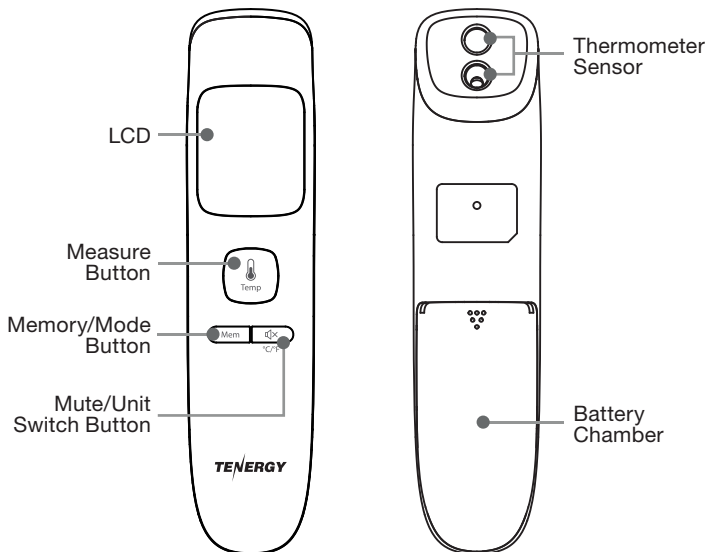
# WARNING AND PRECAUTIONS

- Use of this thermometer is not intended as a substitute for consultation with your physician.
- Keep out of reach of children under 12 years old.
- Never use the thermometer for purposes other than those it has been intended for. Please follow the general safety precautions when using on children.
- Never immerse the thermometer into water or other liquids (this thermometer is not waterproof).
- Do not store this thermometer in temperature extremes below -13°F or over 140°F (below -25°C or over 60°C) or in excessive humidity (above 95% non-condensing relative humidity).
- If thermometer is stored in a location that is cooler or warmer than where it is being used, let it reach room temperature for 10 minutes before taking a measurement.
- Do not use the thermometer if there are signs of damage on the sensor or on the thermometer itself. If damaged, do not attempt to repair the product.
- Never insert a sharp object into the sensor or any other open surface on the thermometer.
- This thermometer consists of high precision parts. Do not drop the instrument. Protect it from severe impact and shock.
- This thermometer is intended for household use only.
- Temperature elevation may signal a serious illness, especially in neonates and infants, or in adults who are old, frail, or have a weakened immune system. Please seek professional advice immediately when there is a temperature elevation and if you are taking temperature on:
  - Neonates and infants under 3 months (Consult your physician immediately if the temperature exceeds 99.4 °F [37.4 °C]).

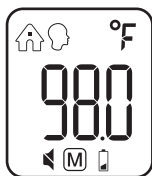
# WARNING AND PRECAUTIONS

- Patients over 60 years of age (Fever may be blunted or absent in older patients).
- Patients with Diabetes Mellitus or a weakened immune system (e.g., HIV positive, cancer chemotherapy, chronic steroid treatment, splenectomy).
- Patients who are bedridden (e.g., nursing home patient, stroke, chronic illness, recovering from surgery).
- A transplant patient (e.g., liver, heart, lung, kidney).
- This thermometer is not intended for pre-term babies or small-for-gestational age babies.
- This thermometer is not intended to interpret hypothermic temperatures.
- Do not allow children to take their temperatures unattended.
- Please consult your doctor if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
- Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.
- Do not modify this equipment without the authorization of the manufacturer.

# APPEARANCE OF THE PRODUCT



## LCD DISPLAY



- Room Temperature Mode
- Forehead Temperature Mode
- Measured Temperature
- Temperature Unit
- Mute / Un-Mute Alarm
- Memory Recall
- Low Battery

# MEASUREMENT STANDARDS

## Typical normal body temperature

Each individual's normal temperature is different, and our body temperature variance depends on many factors such as age, time of day, exertion level, health status, measuring method and other factors. Please use the following temperature reading only as a quick reference guide to typical body temperature ranges. It is important to know each individual's normal temperature when they are well. This is the best way to accurately diagnose a fever. Take multiple readings to establish a healthy normal baseline temperature.


Method	Range (°F)	
0 - 2 years		
Oral	N/A	
Rectal	97.9	<div><div></div></div> 100.4
Axillary	94.5	<div><div></div></div> 99.1
Ear	97.5	<div><div></div></div> 100.4
Forehead (this product)	94.5	<div><div></div></div> 99.1
3-10 years		
Oral	95.9	<div><div></div></div> 99.5
Rectal	97.9	<div><div></div></div> 100.4
Axillary	96.6	<div><div></div></div> 98.0
Ear	97.0	<div><div></div></div> 100.0
Forehead (this product)	96.6	<div><div></div></div> 98.0
11 - 65 years		
Oral	97.6	<div><div></div></div> 99.6
Rectal	98.6	<div><div></div></div> 100.6
Axillary	95.3	<div><div></div></div> 98.4
Ear	96.6	<div><div></div></div> 99.7
Forehead (this product)	95.3	<div><div></div></div> 98.4
65+ years		
Oral	96.4	<div><div></div></div> 98.5
Rectal	97.1	<div><div></div></div> 99.2
Axillary	96.0	<div><div></div></div> 97.4
Ear	96.4	<div><div></div></div> 99.5
Forehead (this product)	96.0	<div><div></div></div> 97.4

Note: This device is not intended as a substitute for regular check-ups by your doctor, please consult your doctor if you have any doubt about the temperature.

# USING THE PRODUCT

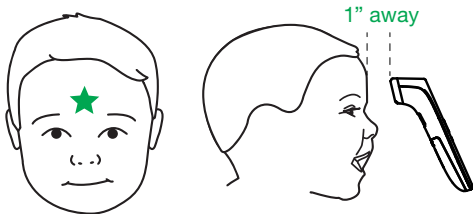
## Step 1. Power the Thermometer - Insert the battery

- 1 Locate and slide open the battery chamber cover
- 2 Insert two AAA batteries, using the plus (+) and minus (-) guides inside the battery chamber to insert the batteries in the proper direction.
- 3 Close the battery chamber cover

Note: When the battery is low, the  icon will show up on the screen to remind you to replace the battery. Do not confuse it with the out of temperature range indicator "Lo".

## Step 2. Aim the thermometer


Position the thermometer 1 inch away from the center of the forehead, just between the eyebrows. If the eyebrow area is covered with hair, sweat or dirt, please clear up the area before taking a measurement. It is important to hold the thermometer steady at the right angle and distance during measurement. Movement will impact the temperature reading.



Note: For best consistent results, measure your body temperature at the time of day when there is least factor that may affect the results, such as early in the morning after getting out of bed, before the first meal.

# USING THE PRODUCT

## Step 3. Take temperature measurement

- 1 Properly position the thermometer away from forehead (refer to last section).
- 2 Press the  button.
- 3 In approx 1 second, the thermometer will make a beep sound to indicate measuring complete; LCD will show the temperature reading.
- 4 Remove the thermometer from forehead and read the temperature from the screen.

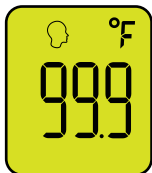
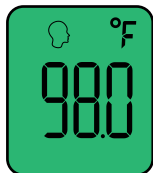
## Step 4. Understanding the results

The LCD color code helps you to quickly understand the temperature ranges with the color indicated on the display. The screen displays green if the recorded temperature is in the normal range, yellow when the temperature is elevated, and red for a potential fever.

Green: 89.6°F to 99.2°F

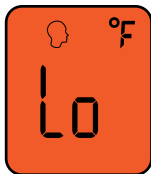
Yellow: 99.3°F to 100.3°F

Red: 100.4°F to 109.2°F



# USING THE PRODUCT

If the temperature is outside of measuring range in this mode, a red screen with “Lo” or “Hi” will be displayed to indicate out of range.



Note: This unit can only measure a temperature range within 89.6 °F to 109.2 °F in forehead thermometer mode.

## Power Off

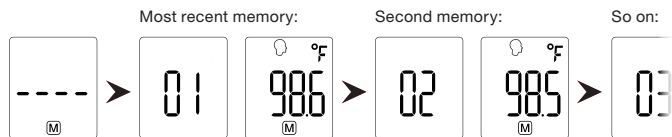
This device will shut off automatically after 20seconds of inactivity. Or you can shut down the device by pressing and holding the



# ADDITIONAL FUNCTIONS

## Recall pervious temperature reading memories

- 1 Press the **Mem** button once to use the memory recall function.
- 2 When the **M** icon displays on screen, press the **Mem** button again to see recently recorded temperatures.
- 3 Press the **Mem** button again to read older temperature records, these records will be displayed in order of latest -> oldest.





## How to change the temperature unit

- 1 Taking a temperature reading (while the screen is still on): Press and hold the **⏏** button for 5 seconds.
- 2 The displayed unit on the upper corner will switch from °F to °C.
- 3 Repeating the above steps again will switch the units again.



# ADDITIONAL FUNCTIONS

## How to silence the thermometer





- 1 After taking a temperature reading (while the screen is still on): Press the  button once.
- 2 The  icon will be displayed on screen, to indicate mute mode is now enabled.
- 3 To un-mute, simply repeat the above steps again.



Note: Upon replacing the battery, memory records will be removed and temperature units/mute settings will be reset to default.

## Room temperature thermometer mode

You can use this unit to measure the indoor room thermometer using the following steps:

- 1 Make sure the unit is powered off (screen is off).
- 2 Point the thermometer sensor toward the room.
- 3 Press and hold the  button for 5 seconds until the  icon show up at the upper corner, release the  button.
- 4 The thermometer is now enabled in room temperature mode, which enables the thermometer to measure from a wider range of temperatures 32°F to 212°F.
- 5 Press the  button to measure the ambient room temperature.
- 6 The thermometer will reset to forehead thermometer mode after being powered off.

Note: For better results using the room temperature mode. It is suggested to point the thermometer toward walls without a source of heat, a few feet to get the best scan of the environmental average temperature. Avoid pointing the thermometer at sources of heat, such as a fireplaces, lamps, hot spots, and or direct sunlight.

## CARE AND STORE

- Always keep the sensors clean and free of obstacles.
- Never immerse the thermometer into water or other liquids.
- Use an alcohol swab or cotton swab moistened with 70% alcohol to clean the thermometer.
- Never use abrasive cleaning agents, thinners or benzene for cleaning.
- Store the unit in dry and cool location between uses.

## SPECIFICATIONS

### Measurement Range:

Forehead thermometer mode: 89.6 °F to 109.2 °F

Room temperature thermometer mode: 32 °F to 212 °F

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### Error Tolerance:

Forehead thermometer mode:  $\pm 0.4$  °F

Room temperature thermometer mode:  $\pm 1.8$  °F

---

**Measuring Distance (Forehead mode):** 1 inch

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**Display Units:** °F / °C

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**Display:** LCD with backlit

---

**Measurement Reading Memory:** 35

---

**Power:** 2x AAA (included)

---

### Operating Conditions:

Ambient temperature: 50 °F to 104 °F

Humidity: 15% to 95% RH

---

**Dimension:** 1.4 x 1.7 x 6 inches

---

**Weight:** 2.4 oz

# FAQS

**Q: Why am I getting a different temperature from this forehead thermometer than my other digital thermometer?**

A: This is normal. Different body parts will have different temperatures, digital thermometers orally or through the ears will have different temperature readings than forehead thermometer readings.

**Q: I am keep getting “Lo” on the screen without temperature, what do I fix it?**

A: “Lo” on the screen means the thermometer is getting a temperature reading outside of its measuring range in forehead mode. Please refer to page 5 and properly positioned in front of your forehead before measurement.

**Q: Can I change the unit from Fahrenheit to Celsius?**

A: Yes, please refer to page 8 of this manual.

**Q: Can I take temperature measurements by other part of my body using this thermometer?**

A: Forehead between theeyebrows is the only recommended area to measure using this thermometer.

**Q: How can I ensure an accurate reading of my own temperature?**

A: We recommend using a mirror to better position the thermometer on the forehead. In addition, for a better reading, we suggest measuring your temperature right out of bed in the morning (before a shower and your first meal, will give results that reduce common factors that changes your temperature).

**Q: How to I fix an error code “ER1” showing up on thermometer?**

A: ER1 means the ambient temperature is too hot or too cold to use this thermometer, please let the thermometer reach room temperature before attempting to take a temperature reading again.

**Q: How long can the battery last?**

A: The set of AAA battery can last about 2,000 scans before needing to be replace.

**Q: What if I still have questions?**

A: Please do not hesitate to contact us at [service@tenergy.com](mailto:service@tenergy.com) for any questions or concerns, we are more than happy to help resolve any concerns.

**MORE QUESTION?**

Feel free to contact our customer service specialist:








**510-979-9969**



**[service@tenergy.com](mailto:service@tenergy.com)**

## Model: FC-IR202

Symbol	Description
	Type B applied part.
	Information about a manufacturer
	Please read the instructions carefully.
	Waste electrical materials should be sent to a dedicated collection point for recycling.
SN	Serial number
LOT	Batch number
	<b>IMPORTANT</b> Inaccurate reading or thermometer damage may occur if the thermometer is not correctly used.
IP22	2 Protected against solid foreign objects of 12,5 mm Ø and greater: 2 If keep the thermometer in 15 degree angle, it still can prevent the water drop.

### Manufacturer:

 **Shenzhen Finicare Co., Ltd**

201, Dehe Building, No.81, Haoyong No.2  
Industrial Park, Hongxing Community Songgang  
Street, Bao'an District  
Shenzhen, Guangdong  
518103 CHINA

 Share Info Consultant Service  
Dimdi Code: DE/0000047946

### Importer:

**Tenergy Corporation**

Fremont, CA 94539  
Importer Part Number: 58062

### **Guidance and manufacturer's declaration-electromagnetic emissions**

The infrared thermometer is intended for using in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.


<b>Emissions test</b>	<b>Compliance</b>	<b>Electromagnetic environment-guidance</b>
RF emissions CISPR11	Group 1	The infrared thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause and interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The infrared thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause and interference in nearby electronic equipment.
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations/flicker emissions IEC	N/A	network that supplies buildings used for domestic purposes.

## Guidance and manufacturer's declaration-electromagnetic immunity

The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.

Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment -guidance
Electrostatic discharge (ESD) IEC 61000-4-2	$\pm 2, \pm 4, \pm 6, \pm 8$ kV for Contact discharge $\pm 2, \pm 4, \pm 8, \pm 15$ kV air discharge	t2, $\pm 4, \pm 6, \pm 8$ kV for Contact discharge t2, $\pm 4, \pm 8$ kV t15kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	$\pm 2$ kV for a.c. power lines $\pm 1$ kV for d.c. power lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	$\pm 1$ kV line(s) to line(s) $\pm 2$ kV line(s) to earth	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations in power supply input lines IEC 61000-4-11	$< 5\% UT$ ( $> 95\%$ dip in UT) for 0.5 cycle $40\% UT$ (60% dip in UT) for 5 cycles $70\% UT$ (30% dip in UT) for 25 cycles $< 5\% UT$ ( $> 95\%$ dip in UT) for 5 s	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the infrared thermometer requires continued operation during power mains interruptions, it is recommended that the infrared thermometer be powered from an uninterrupted power supply or a battery
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment

NOTES: is the a.c. mains voltage prior to application of the test level.

Radiated RF IEC 6100043	3V/m 80kHz to 2.5GHz	3V/m	<p>d=1.2P80MHz to 800MHz d=2.3P 800MHz to 2.5MHz</p> <p>Here P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>NOTE 1 At 90MHz and 800MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
<p>a</p> <p>Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the thermometer is used exceeds the applicable RF compliance level above, the thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the thermometer.</p> <p>b</p> <p>Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.</p>			

**Recommended separation distances between portable and mobile RF communications equipment and the infrared thermometer**

The infrared thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled.  
The customer or the user of the infrared thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the infrared thermometer as recommended below, according to the maximum output power of the communications equipment.

**Rated maximum output power of transmitter W**

Separation distance according to frequency of transmitter m

Rated maximum output power of transmitter W

150kHz to 80MHz  
 $d=1.2P$

80MHz to 800MHz  
 $d=1.2P$

800MHz to 2.5GHz  
 $d=2.3P$

0.01

0.01

0.12

0.23

0.1

0.1

0.38

0.73

1

1

1.2

2.3

10

10

3.8

7.3

100

100

12

23

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where  $P$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80MHz and 800MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

