

GHC-1001



**Thermee**  
**Non-Contact Forehead Thermometer**  
**Instruction manual**



V2.5





## **Introduction**

Thank you for choosing the NON-contact Digital Infrared Forehead Thermometer from Ginger Hill Creations, Forehead Thermometer for short in these instructions

With this unique technology, the forehead thermometer can give you accurate results with non-contact, stable measurement and without the interference from ambient temperature. The product will self-test every time it starts up to make sure of normal operation and accuracy.

The forehead thermometer can be used to measure body temperature, which is suitable for people of all ages. It can be used to measure the temperature of milk and many other items as well. In our examples we will use milk – but feel free to adapt it as needed.

Please read the instructions carefully before using the product, and put it in a safe and secure place for reference.

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## 1.The advantages of a Forehead Thermometer

Multiple uses (measurement of body temperature and milk temperature)  
Forehead Thermometer provides measurement of body temperature, which is from 32°C to 42.2°C (from 89.6°F to 107.9°F) , and milk temperature, which is from 0°C to 100.0°C ( from 32.0°F to 212.0°F) .

The product consists of ABS common plastics, TPR plastics, temperature sensor, Infrared temperature measuring element, microcomputer controlled circuit and LCD.

### Convenient of use

- Special ergonomic design for easy use
- No interference for your normal life. Ability to take measurements during your children's sleep
- Comfortable compared with rectal thermometers for children, and more rapid and simple compared with mouth thermometers and more flexible compared with contact forehead thermometer.

Read multiple groups of memory data

The user can read 20 groups of memory data by choosing memory mode, which is effective for tracing the change of temperature over time.

### Safe and hygienic

- No-contact measurement won't bring about the accumulation of bacteria, and it doesn't need to be cleaned very often.
- There is no danger of breaking the glass or swallowing mercury
- It is totally safe for children to use.

### Fever warning

When the readings exceed 37.5°C/99.5°F, the product shall warn patients that he/she may have a fever by 7 rapid, short rings and red backlight.(For normal body temperature, the signal is long ring and green backlight)

Extensive clinical data of hospital use has been tested.

In cooperation with partner hospitals the unit has been subjected to precise clinical verification, with the support of extensive clinical data and professional medical experts.

## 2.Necessary safety instructions

- Operating Conditions:

Temperature: 10°C to 40°C

Humidity: <80% RH, non-condensing

Atmospheric pressure: 860hPa to 1060hPa

- Storage and Shipping Conditions:

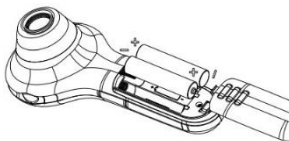
Temperature: -10°C to 60°C

Humidity: 0 - 95% RH, non-condensing  
Atmospheric pressure: 860hPa to 1060hPa

- The device is not normally used for a newborn baby.
- The device is not a continuous monitoring device.
- The device is not waterproof. Please do not wet it with water or with other liquids. Cleaning and disinfection procedure must be in compliance with the instructions specified in [cleaning and storage]
- Please do not use the product if the temperature sensor or the forehead thermometer shows any sign of damage. Do not try to repair the product if it is damaged. Please contact our Customer Service or Warranty Department.
- The device consists of precision parts of the highest quality. Please prevent the product from falling. Please prevent any intense shock or vibration. Do not twist the forehead thermometer and the temperature sensor.

●Battery Installation:

1. Put the two AAA batteries into battery compartment in correct polarities.
2. Push the battery cover horizontally along the arrow.



Notes:

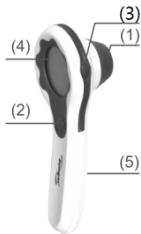
- ✧ If this is your first time using the thermometer, please pull out the Plastic battery protector sheet .
- ✧ Battery polarities should be correctly installed. Otherwise, damage may be caused to the device.
- ✧ Please put in or remove batteries in the correct order, or you may cause damage to the device bracket.
- ✧ Please remove the batteries if the thermometer will not be used for a long time.

**Warnings**●Please keep the forehead thermometer out of your children's reach

- Medical assistance can't be replaced by the use of infrared forehead thermometer
- The forehead thermometer is not waterproof! Do not put it into any liquid.

**3.Instructions for product designs**

- (1)Temperature sensor
- (2) Press button for measuring body temperature
- (3) Press button for measuring milk temperature



- (4) LCD display screen
- (5) Battery cover

#### 4.How to measure with the forehead temperature

The device measures the infrared energy emitted from the forehead, which will focus through the lens and convert it to a temperature value by the thermopile and measuring circuit. It is recommended that you press button (2) and scan the forehead from one side to another at a distance from ½" to 2", then release the button with the maximum value displayed. Fixed point measurement may result in an inaccurate diagnosis.



#### 5.How to measure the milk temperature


The device measures the infrared energy emitted from a feeding bottle, and it will display the milk temperature by transition calculation and emission rate compensation. Please use the press button (3) for startup when measuring.





#### In order to avoid any inaccuracy:

- Please make sure that there is no dirt in on the temperature sensor
  - Please make sure that there is no intense emotion and movement before measuring. There should be no water on the forehead.
  - If the device is transferred from one area to another which has different ambient temperature, it is suggested to allow it acclimate for more about 30 minutes.
  - Do not hold the device for long time as it is highly sensitive to heat.
- the device has undergone clinical testing, it is safe and accurate when used in accordance with the operation manual.



#### 6.Instructions for display and operation

LCD display	Operational method and instruction for displays	Sound and backlight
	1.Measurement of body temperature 1.Aim the temperature sensor (1) at the measurer's forehead directly (effective distance from ½" to 2") under shutdown state, and press	Forehead temperature mode" 1.When temperature value is between 32.0°C/89.6°F and 37.6°C/99.6°F, there

	<p>button (2) or hold down button (2), it shall display measured value when releasing button, which is under forehead temperature mode. Holding down the button and scanning over the forehead are suggested. The system will read sequentially and record the maximum</p> <p>2.Measurement of milk temperature Press button (3) within 4 seconds and release it under shutdown state. It shall display measured value, which is under milk temperature mode.</p> <p>3.Press button (2) or (3) under startup mode and enter measurement mode again.</p> <p>Attention: There shall be 7 short rapid ticks when the measured temperature exceed 37.5°C/99.5°F, which is a warning for patients that he/she may have a fever</p>	<p>shall be one long ring and green backlit for 3 seconds.</p> <p>2.When temperature value is between 37.6°C/99.6°F to 42.2°C/107.9°F, there shall be 7 short ticks and red backlit for 3 seconds</p> <p>Milk temperature mode</p> <p>1.When the temperature value is between 0.0°C/32.0°F to 100.0°C/212.0°F, there shall be a long tick and green backlit for 3 seconds.</p>
	<p>There shall be signal for relative mode under measurement preparedness. The °C or °F signal shall twinkle.</p> <p>If the measurer presses button(2) or (3) again, the measurement mode is available.</p>	
	<p>1.The measured value exceeds 100°C/212.0°F under milk temperature mode.</p> <p>2.The measured value exceeds 42.2°C/107.9°F Under forehead temperature mode.</p>	<p>3 short tick and red backlit for 3seconds.</p>

	<p>1. The measured value exceeds 0°C/32.0°F under milk temperature mode.</p> <p>2. The measured value exceeds 32°C/89.6°F Under forehead temperature mode.</p>	<p>3 short tick and red backlit for 3seconds.</p>
<p><b>Inquiry for memory data, Storing 20 groups of data</b></p>		
<p>LCD display</p>	<p>Operational method and instruction for displays</p>	<p>Sound and backlit</p>
	<p>Click button (3) for 4-8seconds and LCD displays " - - - " with M signal twinkling.</p>	<p>silence</p>
	<p>Click button (3) again and the LCD displays the first data group with M signal twinkling. Click button (3) and it shall display the serial number for 1 second and then display the measured data. There are 20 groups of data. Mark:The memory is forehead data only.</p>	<p>silence</p>
	<p>The LCD shall only display " - - - ", °C/°F and M signal with M signal twinkling if there is no test data.</p>	<p>silence</p>
<p><b>C/F conversion</b></p>		
<p>LCD display</p>	<p>Operational steps</p>	<p>Sound and backlit</p>
	<p>Press button (3) for 8-12seconds under shutdown state, and the temperature unit shifts automatically. Press button (3) within 5 seconds after release, and the temperature unit shifts again unless the release time exceeds 5 second. The products shall be automatic startup and enter into the milk temperature mode.</p>	<p>silence</p>
<p><b>Error message</b></p>		
	<p>It shall display "Er1" when ambient temperature exceeds 40.0°C/104°F or drop below 10.0°C/50.0°F.</p>	<p>3 short tick and red backlit for 3seconds.</p>



	It shall display “ErC” if there is EEPROM data reading error or the correcting process is not finished.Please contact your supplier.	3 short tick and red backlit for 3seconds.
	There shall be low-voltage signal(no twinkling) when the battery voltage is below2.61V±2%.Please replace the battery.	silence
<b>Power Off Mode</b>		
In any mode,if no operation for 10 seconds,it will power off automatically.		

### Attention:

- Electromagnetic interference: the device contains sensitive electronic component and shall not use under the condition with electromagnetic interference,( such as the place nearby the mobile phones and microwaves )
- Please dispose the used products and batteries in accordance with local regulation requirements when the products and batteries are not available.
- Please take out the battery if the device unused for long time.

### 7.Technical specifications

Items	Standards
models	Forehead thermometer the device
1.Applicable regulations and laws	ASTM 1965 GB/T 19146-2010
2.Temperature units	°C/°F, adjustable
3.Measurement range	Forehead temperature mode:32.0°C-42.2°C / 89.6°F – 107.9 °F Milk temperature mode:0.0°C-100.0°C /32.0°F – 212.0 °F
4.Precision	±0.2°C/±0.4°F
5.Display resolution	0.1°C/0.1°F
6.Latency Time	1 second

7.Abnormal state display	<p>LCD displays "L °C" if the measured temperature is below the minimum of measurement range.  LCD displays "H °C" if the measured temperature is below the minimum of measurement range.  LCD displays "Er1" if the temperature measurement circuit is abnormal (fault of SENSOR or the temperature measurement circuit), or the ambient temperature exceed 10°C-40°C(50°F-104°F).  There shall be "ErC" if the calibration process is not completed or EEPROM is abnormal.</p>
8.Sound and backlit	<p>volume<math>\geq</math>50 db (the perpendicular distance from dB Volume sensor to thermometer is 10cm )  Two kinds of backlist: red and green  Forehead temperature mode:  1.There shall be one long beep and green backlit for 3seconds when the temperature is between 32.0°C/89.6°F to 37.6°C/99.6°F.  2.There shall be seven short beeps and red backlit for 3 seconds when the temperature is between 37.6°C/99.6°F to 42.2°C/107.9°F.  Milk temperature mode:  1. There shall be one long beep and green backlit for 3seconds when the temperature is between 0.0°C/32.0°F to 100.0°C/212.0°F.</p>
9.Automatic shutdown function	10s $\pm$ 1s
10.Low-voltage display function	The product shall display low-voltage signal if the voltage is below 2.61V $\pm$ 0.15V.
11.Memory function	Memorize 20 groups of measured temperature.
12.Current consumption	I <sub>stand-by</sub> <2 $\mu$ A; I <sub>working</sub> <0.5mA; I <sub>Buzzer on</sub> <2mA; I <sub>banklight</sub> <15mA
13.LED backlit specifications	Red $\geq$ 1.2cd/m <sup>2</sup> Green $\geq$ 2.0cd/m <sup>2</sup>
15.Operational conditions	ASTM 10°C-40°C (50°F-104°F)/15-95%RH
16.Type of measuing	Applicable for forehead temperature and milk temperature
17.battery	Changeable for two 1.5V triple A batteries
18.Battery life	More than 1000 times

19.Accuracy for clinical test	<p>The maximum allowable error for clinical test is specified in the formula below:</p> $\text{Error} = \frac{ T1-T_{ref}  +  T2-T_{ref} }{2}$ <p><math>\leq 0.3^{\circ}\text{C}/0.6^{\circ}\text{F}</math> (for 95%)</p> <p>Among which: T1 and T2 represent temperature value for thermometer under test respectively, Tref represents the constant reference temperature</p>
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※ It is recommended that professional users and clinics conduct a technical inspection once every two years in accordance with the Medical Products User Law

### 8.Warranty Service

The device is under warranty for two years after the date of purchase. Application for repairing should be presented during the warranty period. Any damage caused by improper use is not under the scope of the warranty. Batteries and packaging are not under warranty scope as well.

Please return the unit to: Ginger Hill Creations, 16238 Highway 620 N., Suite F-104, Austin TX 78717 for repair or replacement.

### 9.Security type



The signal indicates that the thermometer is a BF type device with internal power supply.

### 10. Correspondence

Ginger Hill Creations  
16238 Highway 620 N.  
Suite F-104  
Austin, TX 78717

### 11. Additional Use & Care Videos, **Coupons**, books and Special Features:

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