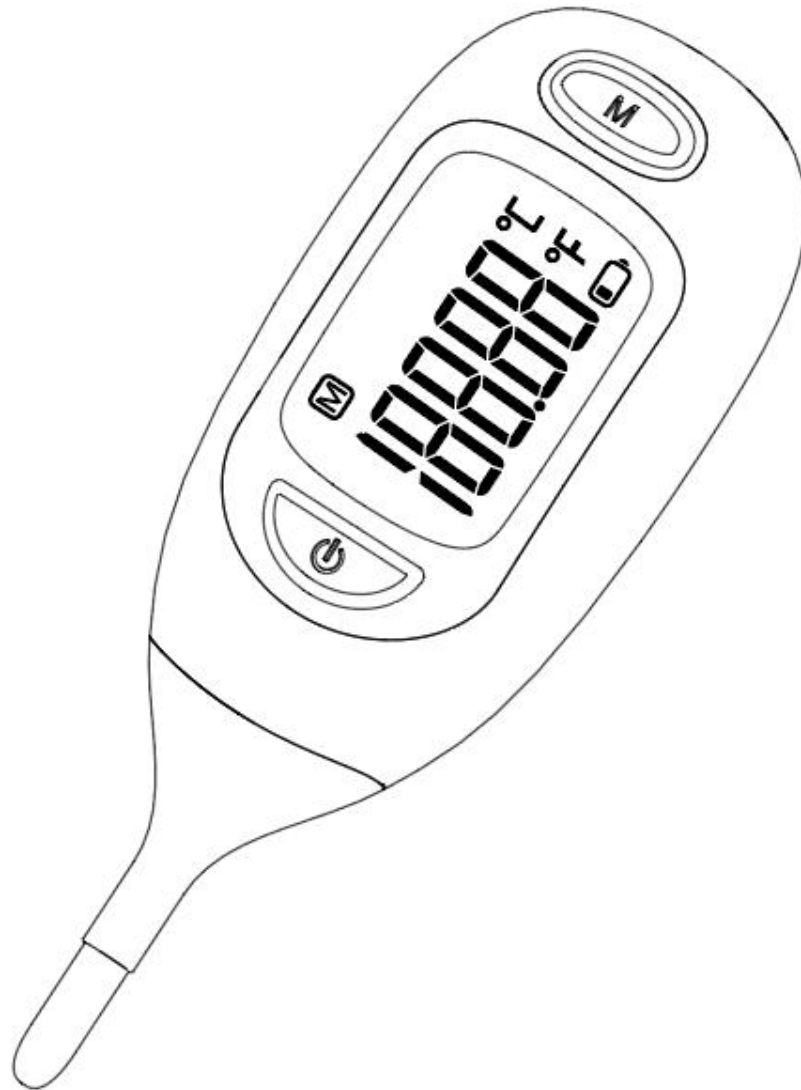


# Instruction Manual

## Electronic Thermometer

Model No.: FC-TM121



Manual Ver.: 1.0

Software Ver.: FC-TM121-V1.0

Issuing Date: 2023/04/20

- Please read this instruction manual carefully before using your unit.
- Please keep this instruction manual well for future use.
- Thanks for choosing the Electronic Thermometer.
- The PATIENT is the intended OPERATOR.

## WARNING

- ⚠ Read instructions thoroughly before using electronic thermometer.
- ⚠ Choking Hazard: Thermometer cap and battery may be fatal if swallowed. Do not allow children to use this device without parental supervision.
- ⚠ Do not place thermometer battery near extreme heat as it may explode.
- ⚠ Note: Use of the probe cover may result in a 0.1°C (32.2°F) discrepancy from actual temperature.
- ⚠ It is recommended the performance should be checked every two years.
- ⚠ Remove battery from the device when not in operation for a long time.
- ⚠ The performance of the thermometer may be degraded if one or more of the following occur:
  - 1) Operation outside stated temperature and humidity range;
  - 2) Storage outside stated temperature and humidity range;
  - 3) Mechanical shock;
  - 4) Patient temperature is below ambient temperature.

## INTENDED USE

The electronic thermometer is a contact thermometer intended for the measurement of human body temperature for people of all ages. The device is reusable for home use and clinical use. Indication: Temperature measurement of the rectum.

### Contraindications:


- Inflammation of rectum
- Trauma of target site
- After surgery of target site

Intended users: Professional medical staff, or lay persons.

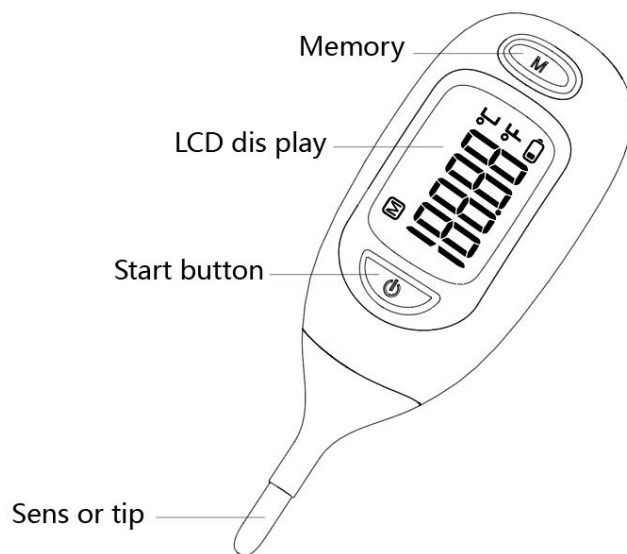
## BUTT FIRST, LET ME TAKE A TEMP

Fevers and newborn are not a good mix. But, knowing their temp, and knowing it quickly, is. The Quick-Read Rectal Thermometer gives you fast and accurate rectal temperature readings in just 10 seconds. Safe flexible tip and stopper make it parent-proof.

## FRATURES

- Fast measurement of oral temperature in approximately 5 minutes.
- Very sensitive device;best for quick oral ,armpit and rectal measurement.
- Easy to read the results on digital LCD screen.
- Flexible soft tip fits naturally under tongue or under arm.Flexible probe adapts to human mouth.
- Compact,accurate,and durable shuts off in about 3 minutes.
- Small and light device.Suitable for home-care use.
- Compared to mercury glass thermometers,it is no dangerous.
- Low battery indicator :when the symbol “  ”appears,the battery needs to be replaced.

## SCHEMATIC DIAGRAM




## NOTICE

- During the measurement, do not walk, run or talk.
- The thermometer should only be used under the supervision of an adult.
- Do not store the thermometer where it will be exposed to direct sunlight, dust or humidity. Avoid extreme temperature.
- Dropping or subjecting your thermometer to strong shocks should be avoided.
- Do not disassemble the thermometer, except to replace the battery.

## CAUTION

- The thermometer contains small parts (e.g. battery), which could be swallowed by children. Therefore, keep the thermometer inaccessible for children.
- If the device will not be used for an extended period of time, make sure you remove the battery when you store it.

## RECTAL MEASUREMENT OPERATING

- Press to turn on the thermometer, the “” button. After a short beep indicates that the thermometer is now switched on. Simultaneously, a test display is performed in which all the symbols to illuminate the display.


- The thermometer is ready to use when the "Lo" and a flashing "°C" appears in the display.

Notes: In an ambient temperature below 25°C will show "Lo °C" appears in an ambient temperature above 45 °C will show "Hi °C", 5 short di-di-di and red indicator light .

During the measurement, the current temperature will be displayed continuously.

During this period, the symbol "°C" blinks.

After approximately 8 seconds, the predicted result will be displayed, accompanied by a corresponding sound and indicator light. For greater measurement accuracy, we recommend continuing to measure for an additional 3 minutes. To extend battery life, turn off the

thermometer after use by pressing the “” button again. Otherwise the

thermometer will automatically turn off after approximately 3 minutes.

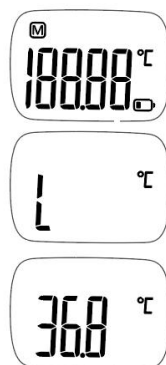
Note: 1.If the temperature falls within the range of  $25^{\circ}\text{C} \leq T \leq 37.6^{\circ}\text{C} / 77^{\circ}\text{F} \leq T \leq 99.68^{\circ}\text{F}$ , a green indicator light will turn on and emit 3 "di-di" sounds.

2.If the temperature falls within the range of  $37.6^{\circ}\text{C} < T \leq 38.5^{\circ}\text{C} / 99.68^{\circ}\text{F} < T \leq 101.3^{\circ}\text{F}$ , an orange indicator light will turn on (with red and green backlighting), and 3 "di-di" sounds will be emitted while the measurement result blinks.

3.If the temperature falls within the range of  $38.5^{\circ}\text{C} < T \leq 45^{\circ}\text{C} / 101.3^{\circ}\text{F} < T \leq 113^{\circ}\text{F}$ , a red indicator light will turn on and emit a rapid 5 "di-di" sounds while the measurement result blinks.

#### Directions

1. When the thermometer is powered off, press the measurement button and 1 beep sound is heard, the LCD screen enters the full display for 1 second (the green, orange and red backlight lighting in turn) to enter the measurement mode.
2. When the measurement time is kept with 10s, the measurement will end, while the buzzer emits beeps and warning light flickers.
3. It is recommended that take a measurement for 5 minutes continuously for a more



accurate measurement result.

4. Wait a minimum of one minute before attempting a new measurement.
5. Press the Power Button to turn off. This can be done at any point during a reading.
6. Remember to sanitize the thermometer before and after all readings.









## MEMORY FUNCTION













- When the thermometer is turned on or off, by short pressing the M button and the device will enter the memory mode. The last measured temperature is automatically saved is displayed. The temperature appears with a small "M" in the display.
- You can now perform another measurement or turn off the power by pressing the on / off key.
- The stored value is automatically overwritten when a new measurement is started.

## Conversion between °C and °F

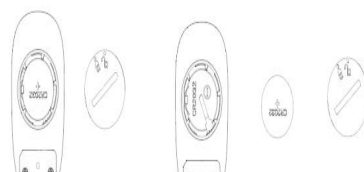
Press the memory button for 3 seconds while the device is turned on to switch between °C and °F. (Note: A beep will be heard after turning on.)

### Symbols:

SYMBOLS USED IN THIS INSTRUCTION MANUAL	
Symbol	Description
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.
	Please read this instruction manual thoroughly before using the unit. Please keep for future reference. For specific information about your own blood pressure, CONSULT YOUR DOCTOR.
	Transport package shall be kept away from rain.
	Keep away from sunlight.
	Fragile, handle with care.
	AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY
	Refer to instruction manual/booklet

	MANUFACTURER
	Unique device identifier
	SERIAL NUMBER
	Type BF application part
	Date of manufacture
	Model number
	Medical device
	Made in China
	<p>The marking of electrical and electronics devices according to Directive 2002/96/EC.</p> <p>The device accessories and the packaging have to be disposed of as waste correctly at the end of its service life.</p> <p>Please follow Local Laws or Regulations for disposal.</p>
	CE mark
	Importer
IP67	<p>6 Protected against solid foreign objects of 12,5 mm Ø and greater;</p> <p>7 If keep the thermometer in 15 degree angle, it still can prevent the water drop.</p>
	Device used within the Magnetic Resonance (MR) environment is prohibited.
IP22	<p>2 Protected against solid foreign objects of 12,5 mm Ø and greater;</p> <p>2 If keep the thermometer in 15 degree angle, it still can prevent the water drop.</p>
LOT	Batch number

## BATTERY REPLACEMENT



Replace the battery when the battery level indicator shows low battery status.

Battery: 3V DC, CR2032

1. Pull up the back of the thermometer and pull out the battery compartment cover.
2. Take out the battery.
3. Use a suitable tool to take out the battery and replace it with a new one.

Note: the positive pole of the battery must be upward.

4. Close the battery compartment cover.

## INSTRUCTIONS FOR MAINTENANCE

It's valid for 3 years,(Do not contain batteries,Until the expiration date is due.

It is recommended to be used after calibration by a third party qualification institution)



### PACKING

Your device is safe from damage during transportation, and the packaging materials can be reused or recycled.



### DEVICE

Do not dispose of the device with your normal household waste at the end of its service life. Enquire about the options for environmentally friendly disposal.



### BATTERY

Used batteries do not belong to household waste. The batteries must be returned to a collection point for used batteries.



## PRECAUTION

- The thermometer should only be used under the supervision of adult.
  - Clean the thermometer probe before using it.
  - Avoid dropping or colliding thermometer.
  - Do not bend or bite the probe.
  - Do not store this device under direct sunlight, high humidity, or dust. Avoid extreme temperature.
  - When storing the thermometer is below freezing temperature.
  - Do not attempt to disassemble the device except replacing battery.
- Stop using the thermometer if it operates erratically or the display shows malfunction.

## CLEANING INSTRUCTIONS

To prevent infections the thermometer should be cleaned thoroughly after each use.

We therefore recommend the use of commercially available disinfectants (e.g. a mild solution containing alcohol).




To clean the thermometer, wash the tip with a solution of mild detergent and cool water. Disinfect the thermometer by wiping the sensor and lower stem with a cloth dipped in a household antiseptic solution such as rubbing alcohol.


Use an alcohol swab or cotton swab moistened with 75% alcohol to clean the thermometer casing and the measuring probe.

After the alcohol is completely dried out, you can take a new measurement.

Ensure that no liquid is left in the interior of the thermometer. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the LCD screen.

## Error and Troubleshooting

Sympton	Possible Cause	Description & Solution
	$T < 25\text{ }^{\circ}\text{C}$ ( $77\text{ }^{\circ}\text{F}$ )	Not an error, ignore it and continue measuring
	$T > 45\text{ }^{\circ}\text{C}$ ( $113\text{ }^{\circ}\text{F}$ )	Cool down the probe, then measure the temperature
	The power voltage is lower than $2.5\text{V} \pm 3\%$	Please replace with a new battery
Temperature Display	In Object mode, $T > 32\text{ }^{\circ}\text{C}$	Not an error, ignore it and continue measuring
Readings fluctuate	● Place the detectors of the thermometer in different positions,	Measure the temperature with correct instruction of operating

widely	resulting in different readings ●Move the thermometer when taking the temperature ●Open during temperature measurement	
Press ON/OFF Button, without any display	 Polarities of the batteries are reversed	Remove the battery and place it correctly to ensure the batteries are in the right position
	The battery level is too low	Please replace with a new battery
37.0 °C is not displayed during measurement preparation	Display 36.9°C ~ 37.0°C	Not an error, ignore it and continue measuring
	Displays temperatures outside the 36.9 °C to 37.0 °C range, even after turning the thermometer on and off several times.	Contact dealer

## TECHNICAL SPECIFICATIONS

Product name	Electronic thermometer
Model	FC-TM121
Power supply	DC3.0 V
Measuring range	25°C ~ 45°C  25.0 °C(77.0°F) ~ 45.0 °C(113.0°F) Below 25°C/77.0°F displays Lo°C(Lo°F) Above 45.0°C/113.0°F displays Hi°C(Lo°F)
Accuracy	±0.1 °C from 35 °C to 43 °C ±0.2 °C in the rest measuring range +/- 0.1°C(32.2°F) from 35.5°C(95.9°F)to 42°C(107.6°F) +/- 0.2°Cin the rest measuring range
Display resolution	0.1°F/0.1°C
Measuring time	Predict Temperature about 8s; Measured Temperature about 30s

Transient Response Time	about 8s
Automatic shutdown	3 minutes
Memory	last measured temperature value <a href="#">Built-in memory can track previous results.</a>
Operational conditions	Operating environment: +5°C~+40°C Relative Humidity: ≤85% moisture condensation Atmospheric pressure: 70-106 kPa
Storage and transport conditions	Temperature - 20°C ~60°C Relative Humidity: 10% RH ~ 95% RH Atmospheric pressure:70-106 kPa
Battery	Cell, 3.0V, 1*CR2032
Weight & Dimension	11.65g (without batteries), 90.7*32.9*15.4mm(L x W x H)
Service Life	5 Years

## IEC 60601-1-2: 2014 ME EQUIPMENT and ME SYSTEMS identification, marking and documents for Class B product

### Instructions for use

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

**Warning:** Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

**Warning:** Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

**Warning:** Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."

**Warning:** Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Electronic Thermometer (FC-TM121), including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

**If any:** a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be specified either generically (e.g. shielded cable, load

impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

**If any:** the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term “ESSENTIAL PERFORMANCE” need not be used).

### Technical description

1.all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the expected service life.

2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity.

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	N/A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N/A

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Power supply lines: ±2 kV input/output lines: ±1 kV 100 kHz repetition	N/A

	frequency	
Surge IEC 61000-4-5	line(s) to line(s): $\pm 1$ kV. line(s) to earth: $\pm 2$ kV.	N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 250 cycle	N/A
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conducted RF IEC61000-4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	N/A
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE $U_T$ is the a.c. mains voltage prior to application of the test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity							
Radiated RF IEC61000-4-3 (Test	<b>Test Frequenc y (MHz)</b>	<b>Band (MHz)</b>	<b>Service</b>	<b>Modulatio n</b>	<b>Modulati on (W)</b>	<b>Distan ce (m)</b>	<b>IMMUNITY TEST LEVEL (V/m)</b>

specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	385	380 –390	TETRA 400	Pulse modulation 18 Hz	1,8	0.3	27
	450	430–4 70	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	2	0.3	28
	710	704 – 787	LTE Band 13, 17	Pulse modulation 217 Hz	0,2	0.3	9
	745						
	780						
	810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28
	870						
	930						
	1720	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28
	1845						
	1970						
	2450	2 400 – 2 570	Bluetooth , WLAN, 802.11 b/g/n, RFID 2450,	Pulse modulation 217 Hz	2	0.3	28

			LTE Band 7				
	5240	5 100	WLAN	Pulse	0,2	0.3	9
	5500	–	802.11	modulation			
	5785	5 800	a/n	217 Hz			



U.S.Agent  
CTI U.S. INC  
Suite 230,1455 CTI U.S.Ins.  
Lincoln Parkway, Atlanta, Ga, 30346

Manufacturer:  
Shenzhen Finicare Co., Ltd



201, No.50, the 3rd Industrial Park, Houting Community,  
Shajing Street, Bao'an District, Shenzhen 518104 China

Website: <https://www.fincare.com/>

Made in China