



## **iProven** iProven NCT-336 Non Contact Infrared Body Thermometer Instruction Manual

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## Introduction

Thank you for choosing the iProven Non Contact Body Infrared Thermometer. The NCT-336 can be used to measure your body temperature via the forehead. It can also be used to measure the room or object temperature.

Please read the instructions carefully in order to accurately utilize this equipment. Temperature measurements may not be valid or accurate if they are not performed in accordance with the instructions provided in this manual. Please keep these instructions handy for future reference.

You can also find the latest digital version of this manual at [www.iproven.com](http://www.iproven.com).

It is our passion to develop high quality products for home use. Our products are manufactured at the highest technical standards of professional quality, durability, and consistency. They are also designed with elegant simplicity in mind, making them easy to use at home.

To help you get the most from our products, we provide clear instructions with each device. The manual also includes helpful information that contributes to your overall health awareness.

In order to make sure that our products are tailored to your needs, we welcome your feedback. If you have any issues, questions or recommendations, please share your thoughts with us at [www.iproven.com](http://www.iproven.com)

iProven - Professional Care Brought Home

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01

## Safety Instructions and Precautions

This device may only be used for the purposes described in these instructions. The manufacturer cannot be held liable for damage caused by incorrect application.

The Non Contact Infrared Body Thermometer is designed to minimize the possibility of hazards from errors in the software program by following sound and light engineering design processes, Risk Analysis and Software Validation.

- The Non Contact Infrared Body Thermometer is to be operated by consumers in the home setting as screening tool. This manual, accessories, Directions for Use, all precautionary information, and specifications should be read before use.
- This product is designed to measure human body temperature on the forehead. Do not use it for any other purpose.
- This product is intended in the home setting as screening tool.
- Do not use the thermometer if it malfunctions or has been damaged in any matter.
- The thermometer has to acclimatise to a change in ambient temperature. If the ambient temperature changes, you get the most accurate results if you allow the thermometer to remain in that room for 30 minutes in a stable temperature (between 59°F - 95°F or 15°C - 35°C).
- Remove primary batteries if equipment is not likely to be used for long time.
- This product is not waterproof, do not immerse it in water or other liquid; If cleaning and disinfecting, please follow the "Care and Storage" section requirements.
- Do not touch the infrared sensor with your fingers.
- Prevent measuring a patient's temperature via the forehead if the patient's forehead or body has been recently cooled with a cold compress or any other measure. Readings may be inaccurate.
- When measuring the temperature via the forehead, please select "body" mode; when measuring the ambient temperature, objects, liquids, food and other temperatures, please select "surface" mode.

02

- This product must be operated in an environment that has a stable temperature. If the temperature of the ambient environment has changed, please check whether there is condensation on the sensor. If any condensation is detected, please remove it before use in accordance with the "Care and Storage" section.
- Do not use near strong electrostatic fields or strong magnetic fields, avoiding the impact on the accuracy of the measurement data.
- Do not mix old and new batteries to avoid damage to the product.
- It may affect the accuracy of measurements when the forehead is covered by hair, perspiration, a cap or a scarf.
- The measuring results of this product are for your reference only. If you have any doubt, please measure the temperature with other methods.

03

## ⚠ Warnings

- ⚠ The device should be kept out of the reach of children/pets. When not in use, store the device in a dry room and protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on the device.
- ⚠ Do not throw the batteries into a fire.
- ⚠ Only use recommended batteries. Do not use rechargeable batteries.
- ⚠ This thermometer is not intended to replace a diagnosis in the hospital.
- ⚠ Do not drop, disassemble or modify the device.
- ⚠ Do not use this device if you think it is damaged or if you notice anything unusual.
- ⚠ This device contains sensitive components, hence it must be treated with caution. Observe the storage and operating conditions described in the 'Technical Specifications' section.
- ⚠ Do not service or maintain your device while the thermometer is in use.
- ⚠ When you use the device, do not touch the battery and the patient simultaneously.
- ⚠ Do not use the device if it is damaged in any way. The continuous use of a damaged unit may cause injury, inaccurate results, or serious danger.
- ⚠ Based on the current science and technology, potential allergic reactions are unknown.
- ⚠ This equipment needs to be installed and put into service in accordance with the information provided in the accompanying documents.

## 1- Overview

### Intended Use

The iProven NCT-336 Non Contact Infrared Body Thermometers are designed to be used for intermittent measurement and monitoring of human body temperature by consumers in the home setting as screening tool.

04

## Description of the Non Contact Infrared Body Thermometer

- The iProven NCT-336 Non contact Thermometer is a hand-held, reusable, battery operated device, that can measure human body temperature via the forehead.

The operating principle is based on Infrared Sensor technology. The IR sensor is calibrated to give a different signal when measuring an object temperature or an ambient temperature. The ASIC can turn the signal from the IR Sensor to a digital value and display it on the LCD.

- Description of Controls, Indicators, and Symbols

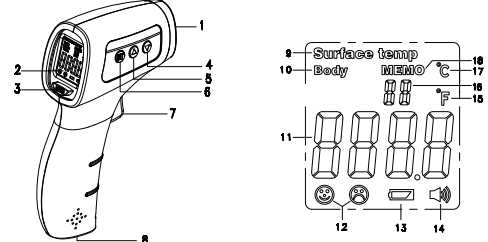


Figure 1: NTC-336 Non contact Thermometer

- |                                |                                     |
|--------------------------------|-------------------------------------|
| 1. IR sensor                   | 10. Body mode                       |
| 2. Liquid crystal display(LCD) | 11. Data indicator                  |
| 3. MODE button                 | 12. Indicator of measurement result |
| 4. Down Arrow button           | 13. Low Battery indicator           |
| 5. Up Arrow button             | 14. Volume on/off indicator         |
| 6. Set button                  | 15. Fahrenheit                      |
| 7. ON/measure button           | 16. Memory Number                   |
| 8. Battery Cover               | 17. Celsius                         |
| 9. Surface mode                | 18. Memory indicator                |

05

## 2- Operation

### 2.1 Battery installation

**Caution:** When the batteries are low or empty, the Non Contact Infrared Body Thermometer will not operate correctly. When the low battery indicator displays, please install new batteries.

- The battery door is under the handle of the thermometer
  - Slide it open
  - Insert two AAA batteries according to the + and -
  - Close battery cover again

### 2.2 How to perform a forehead or surface measurement

Be sure to read and understand all warnings listed of the instructions before use.

- Make sure thermometer has been in the same room as you or the object you want to measure for a while
- Aim thermometer at the middle of the forehead, above the eyebrows (see figure 2) or at the object surface you want to check
- Make sure thermometer is at 2-6 inch distance
- Press on-button. Thermometer will do a self-test with all segments displayed for 2 seconds
- Press on-button again to start measurement and read the data

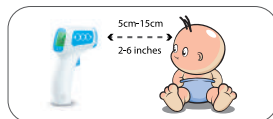


Figure 2: Measuring position and distance

06

### Please note:

- For best accuracy, the ambient temperature should be stable.
- Wait at least 1 second between consecutive measurements. After 5 consecutive measurements, wait at least 30 seconds.
- Do not use in a place with very bright sunlight
- If it's not possible to perform a forehead measurement, you can aim at the ear, see figure 3.
- After a measurement, you will hear a signal which means the measurement has been completed. The target value of the measured temperature is displayed on the display, that will light up in green, yellow or red, depending on the temperature measured. When the temperature is between 99.3°F - 100.4°F (37.4°C-38.0°C), it's yellow. This means your temperature is slightly elevated. When the body temperature is above 100.4°F (38.1°C), it's red. This means you have a fever. Please take good care of yourself or go visit a doctor

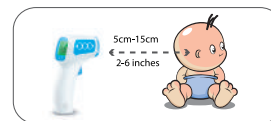


Figure 3: Align behind the ears to measure

07

### 2.3 Switch between Head and Surface Mode

When the device is running, press the MODE button to switch between "body" mode and "surface" mode.

"Body" mode is used for measuring human body temperature, the "surface" mode is used to measure the surface temperature. (The

### 2.4 Use the Memory

The last temperature taken before the thermometer powers off is stored in memory. The memory can save up to 50 readings.

To access and clear the data from the memory, follow these steps:

- 1) When the device is off, press the down "▼" function key, or press the up "▲" function key to view the history of measured values.
- 2) An empty memory cell shows "--C" or "--F".
- 3) Temperature readings can be stored in the memory. There's room for 50 measurements that will be automatically overwritten when the memory is full.
- 4) If you want to clear the saved measurements, switch on the thermometer. Enter the boot mode by pressing the mode button for a few seconds. Release the button when "RST" or "CLR" appears on the display. All stored data will be removed completely.

### 2.5 Change Settings

Some settings of this thermometer can be adapted according to specific wishes of the users, depending on their individual characteristics or environments.

08

### Follow the steps below:

#### 2.5.1 Switch between °C and °F (F1)

Switch thermometer on. Press SET for several seconds to enter F1, press the up "▲" or down "▼" arrow keys to switch between Celsius and Fahrenheit. Press the SET button to confirm the unit settings (factory default is Celsius).

#### 2.5.2 Fever alarm settings (F2)

Switch thermometer on and press SET button twice to enter F2. Press the down "▼" key to decrease 0.1 °C / °F, press the up "▲" key to increase with 0.1 °C / °F. Hold the button longer to accelerate the speed of temperature regulation, and finally press the SET button to save. (The factory default is 38.1 °C)

#### 2.5.3 Switch between mute/unmute (F3)

Switch thermometer on and press SET button three times to enter F3. Press the down "▼" key or up "▲" key button to select the choice of your preference. Then press SET button to confirm the settings. (The factory default is with the sound on).

#### 2.5.4 Set temperature offset value (F4)

To meet the differences in individual characteristics and environments, it is possible to change the offset value of this thermometer.

Switch on the thermometer, press the SET button four times to enter F4. Press the down "▼" key to decrease 0.1 °C / °F, press the up "▲" key to increase with 0.1 °C / °F, then press the SET button to confirm the parameter setting.  
Parameter adjustment range: -5°C and +5°C (factory default is 0).

#### 2.5.5 Exit setting mode (F5)

In the F4 mode, press the SET button to automatically turn off the screen, exit setting.

09

## 3 - Replacing the Battery

1) Open and release battery cover following indicator on the surface of the battery cover. Before changing the battery be sure the system is already powered off.

2) Remove the battery and replace with 2 new AAA batteries of the same type. Make sure to align them properly, as indicated inside the battery cover.

3) Slide the battery cover back in until it snaps into place. Do not dispose of used batteries in household waste. Take them to special local collection sites.

4) If the system doesn't work properly after changing battery, take off the batteries and wait for 30 seconds. Then try again.

### Warning

Do not recharge, disassemble or dispose of in fire.

1) The typical service life of the new and unused batteries is 2000 measurements when the operating time is 18 seconds.

2) Only use the recommended batteries, do not recharge non-rechargeable batteries and do not burn them.

3) Remove the batteries if the thermometer is not to be used for a long period.

## 4-Cleaning, Care and Storage

The lens is very delicate.

It is very important to protect the lens from dirt and damage. You may use a cotton swab dampened with isopropyl (rubbing alcohol) or warm water to gently clean the lens if dirty.

Use a clean, soft cloth to clean the surface of the device and the screen. Do not use solvents or immerse the device into water or other liquids.

10

Cleaning or disinfection is necessary after every use, especially when the device is used for different people. To disinfect the device, use a cloth or swab with 70%~75% alcohol on it to clean the thermometer shell, surface of the device and LCD. Do not use solvents or immerse the device into water or other liquids.

Always keep the thermometer within the storage temperature range (-20°C to 55°C or -4°F to 131°F) and humidity range (≤93% non-condensing)

It is recommended to store the thermometer in a dry location free from dust. Do not expose the thermometer to direct sunlight, high temperature/humidity or any extreme environment, otherwise the function will be reduced.

The thermometer has to acclimatise to a change in ambient temperature. If the ambient temperature changes, you get the most accurate results if you allow the thermometer to remain in that room for 30 minutes before taking a measurement. Make sure the thermometer is in a room with a stable ambient temperature (between 59°F to 95°F or 15°C to 35°C).

11

## 5-Trouble shooting

| MESSAGE | SITUATION   | SOLUTION  |
|---------|---|---|
| Hi      | Temperature taken in not within Typical human temperature range. (34.0°C~42.9°C or 93.2°F~109.2°F).   | Make sure the forehead thermometer is for forehead measurement, not other human body site.  |
| Lo      | Measured over the distance 5-15 cm(2-5.9in).<br>Incorrect test position.  | Optimum measurement distance is 1cm.<br>See figure 6 Measuring position and distance.   |
| Lo      | Subjects forehead hair, Antipyretic stickers, head with sweat, etc.<br>Some people's body temperature is lower than the general population.<br>F4 overall temperature offset is set incorrectly | Subjects sit quietly 5-10 minutes before the test.<br>The main concern fever temperature<br>Adjust the temperature offset value                 |
| Err     | Operating temperature exceeds the range of specified temperature.   | Move to a room within the operating range wait 30 minutes before taking temperature.  |
|         | The screen flicker, automatic turn off.   | Replace battery or the product has been damaged, needs repairs.   |
|         | Battery capacity is too low. Taking Temperature is not allowed.   | Install a new battery   |
| POS     | Ambient temperature changes too fast  | Wait until the ambient temperature is stable.   |
|         | (1) Power is off.<br>(2) Improper battery installation.<br>(3) The battery is exhausted.<br>(4) Display remains blank.  | (1) Press ON button again.<br>(2) Check the battery polarity.<br>(3) Replace with a new battery.<br>(4) Contact the retailer or service center. |

## 6-Disposal

- Used batteries should not be disposed of in the household waste. Used Batteries should be deposited at a collection point.
- At the end of its life, the appliance should not be disposed of in household waste. Enquire about the options for environment-friendly and appropriate disposal. Take local regulations into account.

12

## 7-Warranty

What does this limited warranty cover? This Limited Warranty covers any defects in materials or workmanship under normal use during the Warranty Period.

What will we do to correct problems? iProven will either replace the product or repair the product at no charge, using new or refurbished replacement parts.

How long does the coverage last? The Warranty Period of this iProven product is 2 years from the date of purchase. A replacement product or product part assumes the remaining warranty of the original product purchase.

What does this limited warranty not cover? This Limited Warranty does not cover batteries and packaging, nor any problem that is caused by conditions, malfunctions, or damage not resulting from defects in material or workmanship.

What must be done to obtain Warranty Service? To obtain warranty service, contact our customer support at [www.iproven.com](http://www.iproven.com) to determine the problem and the most appropriate solution for your situation.

## 8-Calibration

The thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the use instructions, periodic re-adjustment is not required. If at any time you question the accuracy of temperature measurements, please contact us timely.

13

## EMC Declaration

1) This equipment needs to be installed and put into service in accordance with the information provided in the ACCOMPANYING DOCUMENTS;

This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.

2) Caution: Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.

3) Caution: This unit has been thoroughly tested and inspected to assure proper performance and operation.


4) Caution: this machine should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, this machine should be observed so you can verify if it operates properly.

| Guidance and manufacturer's declaration – electromagnetic emission  |                |  |
|---|----------------|--|
| The Non Contact Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer of the user of the Non Contact Infrared Body Thermometer should assure that it is used in such an environment. |                |  |
| Emission test   | Compliance     | Electromagnetic environment – guidance   |
| RF emissions CISPR 11   | Group 1        | The Non Contact Infrared Body Thermometer use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.                            |
| RF emission CISPR 11  | Class B        | The Non Contact Infrared Body Thermometer is suitable for use in all establishments, other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| Harmonic emissions IEC 61000-3-2  | Not applicable |  |
| Voltage fluctuations/ flicker emissions IEC 61000-3-3   | Not applicable |  |

14















| Guidance and manufacturer's declaration – electromagnetic immunity  |   |                            |  |
|---|---|----------------------------|--|
| The Non Contact Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of Non Contact Infrared Body Thermometer should assure that it is used in such an environment. |   |                            |  |
| Immunity test   | IEC 60601 test level  | Compliance level           | Electromagnetic environment - guidance   |
| Electrostatic discharge (ESD) IEC 61000-4-2   | ±6 kV contact<br>±8 kV air  | ±6 kV contact<br>±8 kV air | Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.   |
| Electrical fast transient/burst IEC 61000-4-4   | ±2kV for power supply lines<br>±1kV for input/output lines  | Not applicable             | Mains power quality should be that of a typical commercial or hospital environment.  |
| Surge IEC 61000-4-5   | ±1kV(line)to(line)<br>±2kV(line)to earth  | Not applicable             | Mains power quality should be that of a typical commercial or hospital environment.  |
| Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11   | <5% U <sub>i</sub><br>(>95% dip in U <sub>i</sub> )<br>for 0.5 cycle<br><br>40% U <sub>i</sub><br>(60% dip in U <sub>i</sub> )<br>for 5 cycles<br><br>70% U <sub>i</sub><br>(30% dip in U <sub>i</sub> )<br>for 25 cycles<br><br><5% U <sub>i</sub><br>(>95% dip in U <sub>i</sub> )<br>for 5 sec | Not applicable             | Mains power quality should be that of a typical commercial or hospital environment. If the user of the Non Contact Infrared Body Thermometer requires continued operation during power mains interruptions, it is recommended that the Non Contact Infrared Body Thermometer be powered from an uninterruptible power supply or a battery. |
| Power frequency (50 Hz / 60 Hz) 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.  |
| NOTE U <sub>i</sub> is the a.c. mains voltage prior to application of the test level.   |   |                            |  |

15

| Guidance and manufacturer's declaration – electromagnetic immunity  |                             |                  |   |
|---|-----------------------------|------------------|---|
| The Non Contact Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Non Contact Infrared Body Thermometer should assure that it is used in such an environment.   |                             |                  |   |
| Immunity test   | IEC 60601 test level        | Compliance level | Electromagnetic environment - guidance  |
| Conducted RF<br>IEC 61000-4-6   | 3 Vrms<br>150 kHz to 80 MHz | Not applicable   | Portable and mobile RF communications equipment should be used no closer to any part of the Non Contact Infrared Body Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.<br>Recommended separation distance<br>$d=1.2\sqrt{P}$<br>$d=1.2\sqrt{P}$ 80 MHz to 800 MHz<br>$d=2.3\sqrt{P}$ 800 MHz to 2.5 GHz<br>Where 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 metres (m).<br>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey should be less than the compliance level in each frequency range.<br>Interference may occur in the vicinity of equipment marked with the following symbol:  |
| Radiated RF<br>IEC 61000-4-3  | 3V/m<br>80 MHz to 2.5 GHz   | 3V/m             |   |
| NOTE 1 At 80 MHz and 800 MHz, 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.  |                             |                  |   |
| a 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 Non Contact Infrared Body Thermometer is used exceeds the applicable RF compliance level above, the Non Contact Infrared Body Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Non Contact Infrared Body Thermometer. |                             |                  |   |
| b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.   |                             |                  |   |

| Recommended separation distances between portable and mobile RF communications equipment and the Non Contact Infrared Body Thermometer.   |   |                                      |                                       |
|---|---|--------------------------------------|---------------------------------------|
| The Non Contact Infrared Body Thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Non Contact Infrared Body Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Non Contact Infrared Body 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) |                                      |                                       |
|   | 150 kHz to 80 MHz<br>$d=1.2\sqrt{P}$                          | 80 MHz to 800 MHz<br>$d=1.2\sqrt{P}$ | 800 MHz to 2.5 GHz<br>$d=2.3\sqrt{P}$ |
| 0.01  | 0.12  | 0.12                                 | 0.23                                  |
| 0.1   | 0.38  | 0.38                                 | 0.73                                  |
| 1   | 1.2   | 1.2                                  | 2.3                                   |
| 10  | 3.8   | 3.8                                  | 7.3                                   |
| 100   | 12  | 12                                   | 23                                    |
| For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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 80 MHz and 800 MHz, 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.   |   |                                      |                                       |

### Equipment Symbols

|   |  |   |  |
|---|--|---|--|
|  | Warning  |  | Restriction of Hazardous Substances            |
|  | Non sterile packaging  |  | Serial number                                  |
|  | Refer to operating instructions  |  | Compliance with WEEE Standard                  |
|  | Operating Temperature  |  | DO NOT THROW AWAY<br>Intended for multiple use |
|  | Operating Humidity   |  | Operating atmospheric pressure                 |
|  | This device complies with Part 15 of FCC (Federal Communications Commission) Rules.  |   |  |
|  | Manufacturer   |   |  |
|  | Recyclable   |   |  |
|  | IP22: The first number 2: Protected against solid foreign objects of 12.5 mm $\Phi$ and greater. The second number: Protected against vertically falling water drops when enclosure tilted up to 15°. cond number: Protected against vertically falling water drops when enclosure |   |  |

### Technical Specifications

|                                     |  |
|-------------------------------------|--|
| Measurement Unit                    | °C / °F  |
| Operating mode                      | Adjusted mode(Body mode)<br>Direct mode(surface mode)  |
| Measuring site                      | Forehead   |
| Reference Body Site                 | Axillary   |
| Extended output range               | Body mode: 34.0°C - 34.9°C/93.2°F -94.8°F<br>42.1°C - 42.9°C/107.8°F -109.2°F  |
| Range                               | Body mode: 34.0°C - 42.9°C/ 93.2°F -109.2°F<br>Surface mode: 0°C - 100.0°C/ 32°F -212°F  |
| Accuracy                            | Body mode:<br>34.0°C - 34.9°C:±0.3°C/ 93.2°F -94.8°F:±0.5°F;<br>35.0°C - 42.0°C:±0.2°C/95.0°F -107.6°F:±0.4°F;<br>42.1°C - 42.9°C:±0.3°C/107.8°F -109.2°F: ±0.5°F;<br>Surface mode:±2°C/±3.6°F.  |
| Display Resolution                  | 0.1°C / 0.1°F  |
| Three-color Backlight (Color Alarm) | 35.5°C-37.3°C / 95.9°F-99.1°F: Green (Normal Temperature);<br>37.4°C-38.0°C(Abnormal point) / 99.3°F-100.4°F: Yellow (Slight Fever)<br>38.1°C-42.9°C / 100.6°F -109.2°F: Red(High Fever)<br>Note: 1.Surface mode is always with Green backlight.<br>2. In body mode 34.0°C-35.4°C is with green backlight. |
| Facial Indication                   | Happy face:35.5-37.3°C/ 95.9-99.1°F<br>Sad face:37.4-42.9°C/ 99.3-109.2°F  |
| Auto Power Off Time                 | ≤18s   |
| Measuring Time                      | ≤25  |
| Measuring Distance                  | 5CM -15CM(2in -5.9in)  |
| Memories                            | 50   |
| Power Supply Requirements           |  |
| Batteries                           | 1.5V (AAA) Alkaline batteryX2 (IEC Type LR03)  |
| Adaptable Range                     | 2.6V-3.6V  |
| Environmental                       |  |
| Operating Condition                 | Operating Temperature:15°C - 35°C(59°F -95°F),<br>Relative Humidity:≤85%,atmospheric pressure:70 Kpa -106Kpa   |
| Transport and Storage Condition     | Storage Temperature:-20°C -55°C / -4 °F - 131°F,<br>Relative Humidity:≤93%,atmospheric pressure:70 Kpa -106Kpa   |

| Dimension and Weighting       |  |
|-------------------------------|--|
| Weight (without batteries)    | 116g   |
| Size                          | L:150mm X W:95mm X H:44mm                                      |
| Compliance                    |  |
| Item                          | Compliant with   |
| Equipment classification      | Safety Standards: EN 60601-1-1:2006+A1:2013, EN 60601-1-2:2007 |
| Type of protection            | Internally powered equipment (on battery power)                |
| Degree of protection          | Non Applied part   |
| Front panel and case labeling | EN ISO15223-1:2012   |
| Temperature                   | EN ISO80601-2-56:2012  |
| Home healthcare environment   | EN 60601-1-11:2010   |

### Calculated values of the indicators according to ISO 80601-2-56

| Indicators                         | Calculated value |
|------------------------------------|------------------|
| Clinical bias, $\Delta_{cb}$       | -0.027           |
| Standard deviation, $\sigma_j$     | 0.14             |
| Limits of agreement, $L_A$         | 0.26             |
| Clinical repeatability, $\sigma_r$ | 0.07             |

### Safety classification of ME EQUIPMENT

|   |                                 |
|---|---------------------------------|
| Protection against electric shock                                 | Internally powered ME equipment |
| Applied part  | Non Applied part                |
| Protection against harmful ingress of water or particulate matter | IP22                            |
| Mode of operation   | Continuous operation            |

Note: Not intended to be sterilized. Not for use in an OXYGEN RICH ENVIRONMENT

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