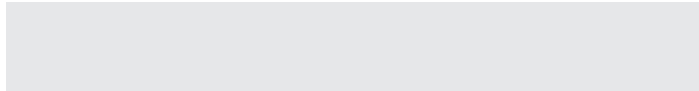


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Made in China



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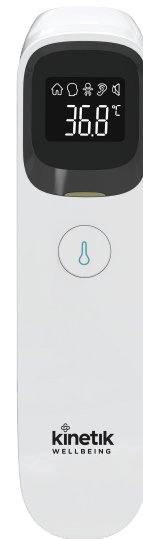


JPD-FR409-BT_UK_IB_20240812_v8




kinetik
WELLBEING

CE 0598



Smart Ear & Forehead Thermometer

Instruction Manual

REF JPD-FR409-BT

Product Information

Product Name: Smart Ear & Forehead Thermometer

Model: JPD-FR409-BT

Introduction

Thank you for purchasing this Smart Ear & Forehead Thermometer. Please read the User Manual carefully to make sure safe and proper use of this thermometer.

Please read and fully understand the Safety Precautions before use.

Keep the Instruction Manual with this thermometer for future reference.

■ Support

Our manual should provide you with all the information you need to set up and use this product.

If you have a question, have a look at our Troubleshooting page!

For further assistance, why not contact our Customer Care team directly? We're here to help!

Our Customer Care team are available from 9am-5pm, Monday to Friday (excluding bank holidays).

We promise to respond to all queries and will ensure to resolve any issue you may be having.

You can reach us by...

Phone:

+44 (0)1483 937967

Live Chat:

Simply visit www.kinetikwellbeing.com and send us a message.

Email:

customercare@kinetikwellbeing.com

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Kinetik Medical Devices Limited
Unit 11, Perrywood Business Park, Honeycrock Lane,
Salfords, Redhill, RH1 5JQ

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■ Package Contents

No.	Name	Quantity
1	Smart Ear & Forehead Thermometer	1
2	Pouch	1
3	Battery (AAA)	2
4	Instruction Manual	1


■ Safety Precautions

Read the following precautions carefully before using the thermometer.




















 Attention	
◆	Take care of the temperature probe lens, which is fragile.
◆	Dispose used batteries with care. To protect the environment, you are recommended to send the used batteries to a designated collection point.
◆	Remove the batteries if the thermometer will not be used for more than two months.
◆	Do not immerse the thermometer in water or expose it to direct sunlight.
◆	Do not subject the thermometer to vibration or impact.
◆	The normal body temperature varies from person to person. Tracking a person's body temperature will help determine whether they have fever.
◆	Do not take body temperature readings within 20 minutes after you do physical exercises or get excited.
◆	Clean the thermometer probe after each use.
◆	Do not use the thermometer on newborns or for continuous temperature monitoring purposes.
◆	Do not use the thermometer for purposes that are not specified in this User's Manual. Follow the instructions in the "Measurement

	Process" chapter and carefully operate the thermometer when measuring children's temperature.
◆	Do not immerse the thermometer in water or other liquid, as it is not waterproof. Clean and disinfect the thermometer as described in the "Cleaning and Disinfection" chapter.
◆	Do not touch the tip of the temperature probe, on which a precise temperature sensor resides.
◆	Keep the temperature probe clean to make sure accurate readings.
◆	Before measuring the temperature from the ear canal, clean the earwax, if any.
◆	The ambient temperature must not be extremely high or low. To make sure accurate readings, keep the thermometer under room temperature for more than 30 minutes before use.
◆	Do not use the thermometer under an ambient temperature higher than 40°C (104°F) or lower than 10°C (50°F), which is beyond the operating temperature range of the thermometer.
◆	Risk of pollution! The user is recommended to send the overdue thermometer to local garbage disposal site or send it back to us.
◆	2 AAA batteries of 1.5V are the only replaceable accessories of the thermometer. Please do not use the batteries of other voltages or specifications.

■ Warning

 Warning	
●	Do not force the temperature probe of the thermometer into an ear canal. Otherwise, the ear canal may get injured.
●	Keep the thermometer out of the reach of children.
●	The result may be inaccurate if you use the overdue thermometer.
●	The thermometer is not intended to diagnose or treat any health problem or disease. The measurement results are for reference only.
●	It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For such purposes, please consult a doctor.
⊘	Do not charge an alkaline dry-cell battery or throw it in fire. Otherwise, the battery may explode.
⊘	Do not disassemble the thermometer or attempt to repair it. Otherwise, the thermometer may be damaged permanently.
⊘	Do not take temperature measurements on body parts other than forehead and ears. Otherwise, the temperature readings may be inaccurate.
⊘	During measurement, do not use a mobile phone or any other device that may cause electromagnetic interference.
⊘	Do not use the thermometer in an environment where flammable anesthetic mixture with air or with oxygen or nitrous oxide is available.

■ Symbols

Symbol	Description
	Type BF applied part
	Attention must be paid.
	The action is prohibited.
	Information about the manufacturer.
	Date of Manufacture and Made in China
	Read the instructions (actual symbol colours are white on a blue background)
	This product complies with the Regulation (EU) 2017/745 requirements.
	Authorized European Representative
	Medical Device
	Waste electrical materials should be sent to a dedicated collection point for recycling.
IP22	The degree of protection against harmful ingress of water and particulate matter
	Lot Number
	Symbol for 'Serial Number'
	Symbol for 'Commercial Product Code / Model Number'
	Symbol for 'Importer'
	Symbol for 'Recycle'
	Unique Device Identifier
	The UDI-DI is a unique code specific to a model of device that is also used as the access key to information stored in a UDI database
 Warning	A personal injury or damage to the thermometer may occur if the thermometer is not used correctly.
 Attention	Inaccurate reading or damage to the thermometer may occur if the thermometer is not used correctly.

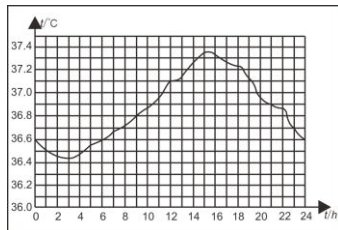
■ Body Temperature Basics

Generally, you can take a body temperature on the forehead, in the ear canal, under the armpit, in the mouth, or in the anus. The temperature measured at different parts of the body may differ slightly.

Body Site	Normal Temperature Range
Forehead	34.7°C-37.3°C (94.5°F- 99.1°F)
Eardrum	35.8°C-38.0°C (96.4°F-100.4°F)
Mouth	35.5°C-37.5°C (95.9°F- 99.5°F)
Armpit	34.7°C-37.3°C (94.5°F- 99.1°F)
Rectal	36.6°C-38.0°C (97.9°F-100.4°F)

The normal body temperature range slightly varies with age and gender. Generally, newborns or children have higher body temperature than adults, and adults have higher body temperature than the elderly. Women's body temperature are appropriately 0.3°C higher than men's.

■ Variation in body temperature



Normal body temperature fluctuates throughout the day and is also affected by external factors. The body temperature of an individual is the lowest between 2:00 a.m. and 4:00 a.m. and the highest between 2:00 p.m. and 8:00 p.m. An individual's body temperature typically changes by less than 1°C (1.8°F) each day.

Product Description

■ 1) Overview

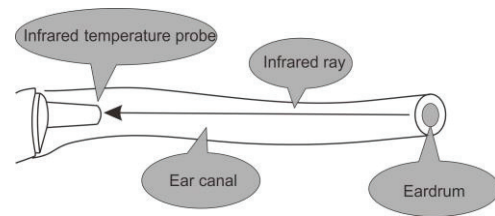
The Smart Ear & Forehead Thermometer measures the body temperature based on the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the temperature probe in the ear canal or forehead.

■ 2) Structure

The thermometer consists of a shell, an LCD, a measure button, a beeper, an infrared temperature sensor, and a Microprocessor.

■ 3) Operating principle

The infrared temperature sensor collects infrared energy emitted by the eardrum or the skin surface. After being focused by a lens, the energy is converted into a temperature reading by the thermopiles and measurement circuits.



■ 4) Intended use

The Infrared Thermometers take human body temperature via the eardrum or forehead for both professional and home use.

The forehead mode is indicated for use by people of all ages and the eardrum mode is indicated for use by people above three months old.

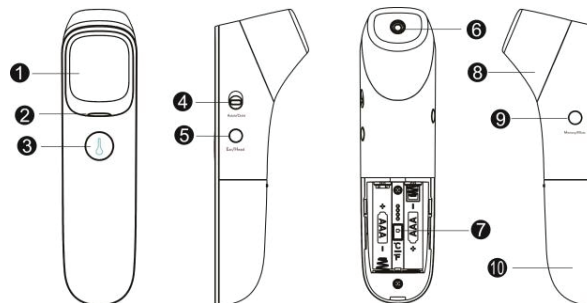
■ 5) Contraindications

The device has no side-effects if administered correctly and residual risk is acceptable.

■ Features

- 01 Good safety
 - Passive infrared receiving technology.
- 02 Easy operation
 - Ergonomic design
 - One button measurement
- 03 Quick measurement
 - 1-second measurement
- 04 High accuracy
 - Advanced infrared temperature sensor, with high sensitivity
 - High accuracy with automatic temperature calibration
- 05 Diverse functions
 - 20 reading recalled
 - Fever alert
 - Switching between °C and °F
 - Automatic power-off, power saving
- 06 Extensive application scope
 - Forehead temperature measurement applicable to all age groups
 - Ear temperature measurement applicable to children older than three months, adults, and the elderly
- 07 Child mode
 - This mode is recommended for people under 12 years of age.

■ Product Structure



- (1) LCD display screen
- (2) Indicator
- (3) Power button / Measure button
- (4) Adult mode / Child mode
- (5) Mode button (Forehead / Ear / Object)
- (6) Probe (take off the cover when measuring the ear temperature)
- (7) Unit switch button(°C/°F)
- (8) Probe cover (put the cover on when measuring the forehead temperature)
- (9) Memory button / Sound switch
- (10) Battery cover

■ Display Description

- 1. Object temperature mode
- 2. Forehead temperature mode
- 3. Child mode
- 4. Ear temperature mode
- 5. Mute / un-mute
- 6. Fahrenheit / Celsius degrees
- 7. Low battery
- 8. Memory recall
- 9. Temperature value



■ Sounds and indicator Color instructions

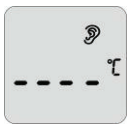



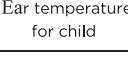
Range	Sounds	Indicator color
Forehead temperature (Adult / Child)		
22.0°C-37.5°C / 71.6°F-99.5°F	A long beep	Green
37.6°C-43°C / 99.6°F-109.4°F	3 short double beeps	Red
Ear temperature (Adult / Child)		
34.0°C-37.5°C / 93.2°F-99.5°F	A long beep	Green
37.6°C-43.0°C / 99.6°F-109.4°F	3 short double beeps	Red
Object temperature		
0°C-100°C / 32.0°F-212°F	A long beep	Green

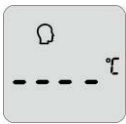



Note: When the forehead temperature is between 22.0°C/71.6°F and 37.5°C/99.5°F, the ear temperature is between 34.0°C/93.2°F and 37.5°C/99.5°F, there will be a long beep and a green indicator.

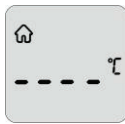



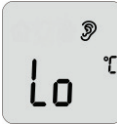
This indicates that your body temperature is normal.

When the forehead and ear temperature is between 37.6°C/99.6°F and 43°C/109.4°F, there will be 3 short double beeps and a red indicator. This indicates that your body temperature is a little high. You may have a fever. Please consult your doctor if you are not sure.

■ Display and Operating Instructions

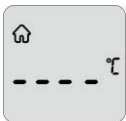

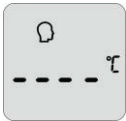

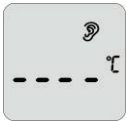
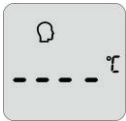
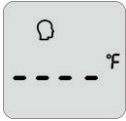
Screen Display	Operating Instructions Displayed State	Sound and Indicator color
Measuring Ear temperature (Adult / Child)		
   Ear temperature for adult	Take off the probe cover, press and release the Power button for 1 second to power on the thermometer. Press the Mode button , the thermometer enters the Ear mode . The symbol "Ear" is displayed on the screen.	See the table in the "Sounds and indicator color instructions" section.
 Ear temperature for child	Switch to the adult or child measurement mode by dialing the side adult/child switcher according to your measurement needs.	
 Ear temperature for child	Insert the temperature probe into a proper position in the ear canal. Press the Measure button to start a measurement.	
Measuring Forehead temperature (Adult / Child)		




Screen Display	Operating Instructions Displayed State	Sound and Indicator color
   Forehead temperature for adult	Put the cover on the probe, press and release the Power button for 1 second to power on the thermometer. Press the Mode button , the thermometer enters the Forehead mode . The "Head" symbol is displayed on the screen. Switch to the adult or child measurement mode by dialing the side adult/child switcher according to your measurement needs. Point the thermometer to the sides of the forehead about 0.1" to 1" (1-3cm) away from the skin surface. Press and release the Measure button . The temperature will be displayed on the screen.	See the table in the "Sounds and indicator color instructions" section.
 Forehead temperature for child		
Measuring Object temperature		

Screen Display	Operating Instructions Displayed State	Sound and Indicator color
  	Press and release the Power button for 1 second to power on the thermometer. Then press the Mode button . The thermometer enters the Object mode . The "House" symbol is displayed on the screen. Point the thermometer to the center of the object. Press and release the Measure button . The temperature will be displayed on the screen.	See the table in the "Sounds and indicator color instructions" section.
Out of the measuring range display		
	In Ear mode, a temperature reading of more than 43.0°C (109.4°F) In Forehead mode, a temperature reading of more than 43°C (109.4°F) In Object mode, a temperature reading of more than 100°C (212.0°F)	A long beeps, the indicator light is red.
	In Ear mode, a temperature reading of less than 34.0°C (93.2°F) In Forehead mode, a temperature reading of less than 22.0°C (71.6°F) In Object mode, a temperature reading of less than 0°C (32.0°F)	
Recall 20 memories		

Screen Display	Operating Instructions Displayed State	Sound and Indicator color
	In a power-on state, press the Memory button enter the memory mode.	Silent ,the indicator light is green.
	When the Memory button is released, 1 will be shown, followed by the recorded reading.	
	Press the Memory button again for the next recorded data. 2 will be shown, followed by the recorded reading.	
	A maximum of 20 temperature readings can be recalled.	
	When the maximum number of records is exceeded, the oldest memory data will be overwritten.	
	Note: 1 represents the newest data.	
No memory data / Clear memory data		

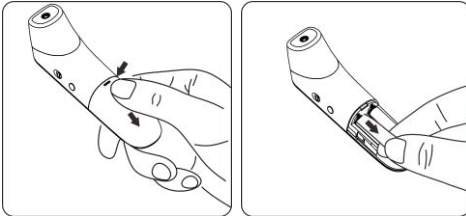
Screen Display	Operating Instructions Displayed State	Sound and Indicator color
	When the memory data is queried, when there is no memory data under the current serial number, the display is as shown. Remove 2 dry batteries and re-install the power to clear all memory data.	When the power is turned back on, a long beep, the indicator light is green, then turn red.
Switching between mute and un-mute		
	In the power-on state, press and hold the sound switch button for about 2 seconds to switch the sound on or off. When the sound is turned on, it will beep once and the mute symbol will be displayed when the sound is off.	When the sound is turned on, it sounds a long beep and the indicator light is green.
	The symbol is displayed in Mute mode and disappears in Un-mute mode.	
Switching between object temperature and body temperature		

Screen Display	Operating Instructions Displayed State	Sound and Indicator color
    	<p>Press the Mode button to switch between object temperature and body temperature.</p> <p>Body temperature contains the Forehead temperature and Ear temperature.</p>	Silent, the indicator light is green.
Switching between °F/°C		
 	<p>In the power off state, remove the battery cover, and toggle the °C/°F unit in the battery compartment to switch the toggle device.</p> <p>Toggle switch for °C upwards and downwards toggle switch as the °F unit.</p>	Silent

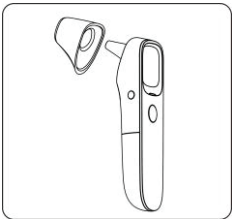
Screen Display	Operating Instructions Displayed State	Sound and Indicator color
Error information & low battery		
	The ambient temperature is higher than 40.0°C (104.0°F) or lower than 10.0°C (50.0°F).	A long beeps, the indicator light is red.
	An error occurs when data is being read from or written to the memory, or the temperature correction is not complete.	A long beeps, the indicator light is red.
	When the battery voltage is lower than 2.5V ± 0.1V, the low battery symbol will appear on the display. Please replace the batteries.	Silent

■ Measuring Ear Temperature

1. When using the thermometer for the first time, move the battery cover and install the batteries.



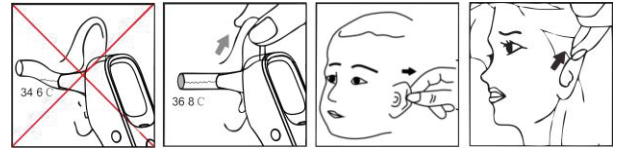
2. Take the probe cover off from the thermometer before measuring the ear temperature.



3. Press the **Power button** to power on the thermometer.
4. Press the **Mode button**, the thermometer enters the **Ear mode**. The "Ear" symbol is displayed on the screen.
5. When measuring an adult, place the switching device in the "adult" mode. When measuring children, place the switching device in the "child" mode and the symbol is displayed on the screen.
6. Insert the temperature probe into the ear canal.
7. Press and release the **Measure button**. The ear temperature reading will be displayed on the screen instantly.

Note: Children under 1 year: Pull the ear straight back.

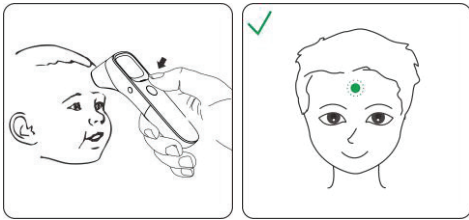
Children aged 1 year to adult: Pull the ear up and back.



- ⚠ Do not force the thermometer into the ear canal. Otherwise, the ear canal may get injured.
- ⚠ When taking the temperature on an adult, gently pull the ear up and back to make sure the ear canal is straight, so that the temperature probe can receive an infrared ray from the eardrum.
- ⚠ Be careful when taking temperature on a child, whose ear canal is small.

■ Measuring Forehead Temperature

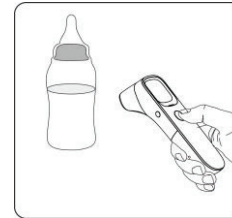
1. Put the cover on the probe of thermometer.
2. Press the **Power button** to power on the thermometer.
3. Press the **Mode button**, the thermometer enters the **Forehead mode**, the “Head” symbol is displayed on the screen.
4. When measuring adults, place the switching device in the “adult” mode. When measuring children, place the switching device in “child” mode and the symbol is displayed on the screen.
5. Point the thermometer probe to the sides of the forehead, about 0.1” to 1” (1-3cm) away from the skin surface.



6. Press and release the **Measure button** for 1 second. The temperature reading will be displayed on the screen instantly.
7. If no activity is detected, the thermometer will power off automatically in 10 seconds.


■ Measuring Object Temperature

1. Put the cover on the probe of thermometer.
2. Press the **Power button** to power on the thermometer.
3. Press the **Mode button**, the thermometer enters the **Object mode**. The “House” symbol is displayed on the screen.
4. Point the thermometer probe to the center of the object, about 0” to 1” (1-3cm) away from the object surface.
5. Press and release the **Measure button** for 1 second. The temperature reading will be displayed on the screen instantly.
6. If no activity is detected, the thermometer will power off automatically in 10 seconds.



■ After a Measurement

- (1) After each measurement, you can enter the recall mode and query earlier temperature readings. For more details, see "Recall 20 memories" in the preceding table.
- (2) After each measurement, clean the temperature probe with a soft cloth, and put the thermometer in a dry and well-ventilated place.

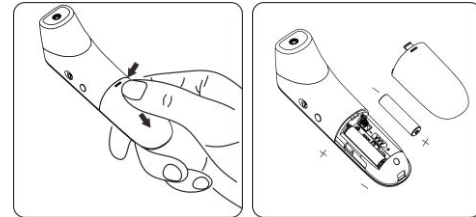
 It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For such purposes, please consult a doctor.


Notes:


- (1) The thermometer is suitable for an indoor environment without strong air convection (for example, winds from a fan, an air -conditioner, or a heater) between the thermometer and the person.
- (2) Make sure that the ear canal is clean and dry before starting a measurement. It is recommended to clean the ear canal with a cotton swab if any dirt exists. Otherwise, the temperature probe may be polluted and temperature readings may be inaccurate.
- (3) Do not hold the thermometer for a long time, because it is sensitive to the ambient temperature.
- (4) Make sure the sense head is free of foreign matters before use;
- (5) Make sure the forehead has no sweat and no hairs covered before measure the forehead temperature; otherwise, the result could be incorrect;
- (6) No intense emotion or strenuous exercises before measuring;
- (7) After measuring the data once, you should wait for the indicator to turn off and measure the next data.


■ Replacing Batteries

1. Slide the battery cover off along the marked direction and take it off.
2. Insert the two AAA batteries into the compartment according to the stated polarities.



 Make sure that the batteries are installed correctly. Otherwise, the thermometer may be damaged.

 If the low -battery symbol is displayed on the screen, replace the batteries.

 Batteries of a same type should be used. Dispose the used batteries in accordance with the local environmental policies.

 The thermometer is shipped with batteries. First open the battery cover, then remove the insulating piece.

■ Connecting the Instrument to a Smartphone via Bluetooth

Download the **Temperature Diary by MedM** app or the **MedM Health** app from the App store or Google Play.

Install the app and register an account.

Enable Bluetooth and the MedM app on your smart device. Make sure both Bluetooth and app are ON when pair-up is proceeding.

In the app, select the menu in the top left corner of the screen. Then select **My Devices**.

At the bottom of this screen, select **Add New**. The app will automatically start scanning for a new device.

While the scan is underway turn on your thermometer.

Ensure that batteries have been inserted into thermometer before doing so.

When detected select the **Kinetik Thermometer**.

Once selected you will be asked if you would like to receive data automatically.

To transmit and store each reading automatically you will need to select

Yes on this screen. If you select **No** you will need to manually input your results.

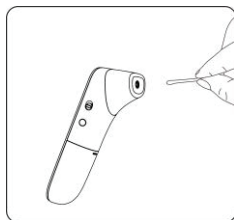
■ Cleaning


Recommended detergents:


- * Medical detergents;
- * Home use mild detergents;


Cleaning steps:

- (1) Take the batteries out before cleaning.
- (2) Clean the temperature probe with a soft cloth. Clean the lens of the temperature probe with a cotton swab.
- (3) Wipe the thermometer body with a slightly damp soft cloth .



 Keep water out off the lens during the cleaning process. Otherwise, the lens may be damaged.

 The lens may be scratched if it is cleaned with a hard object , which might result in inaccurate readings.

 Do not clean the thermometer with corrosive cleansers. During the cleaning process, do not immerse any part of the thermometer into liquid, or allow liquid to penetrate the thermometer.

■ Disinfection

Recommended disinfectants:

- * Isopropyl alcohol solution (concentration: 70%)
- * Medicinal alcohol (concentration: 75%)
- * Sodium hypochlorite solution (concentration: 3%)

Disinfecting steps:

- 1) Wet the clean soft cloth with a small quantity of disinfectant, wipe the thermometer and quickly dry it.
- 2) Disinfect the thermometer body and the area around the temperature probe with a cloth slightly moistened with 75% medical alcohol.



Do not use hot steam or ultraviolet radiation for disinfection. Otherwise, the thermometer may be damaged or quickly aged.



Clean and disinfect the thermometer under the temperature of +10°C-+40°C (50°F-104°F), the relative humidity of 15%-85%RH (no condensation) and the barometric pressure of 86kPa-106kPa.

■ Maintenance

Preventive inspection & maintenance period

- 1) Ensure the safety of thermometer, and check whether it has potential safety hazards in normal use each week, e.g. whether the lens is broken, the shell has cracks and the sensing head is polluted. Do not use the thermometer with potential safety hazard. Clean the thermometer if not used for a long time.
- 2) After each use, clean the temperature probe as described in the "Cleaning and Disinfection" chapter.
- 3) Store the thermometer in a dry, dust-free, and well-ventilated place. Make sure that the thermometer is not exposed to sunlight. Make sure that the storage and transportation environments meet the requirements.

- 4) Check regularly whether safety risks exist.
- 5) Remove the batteries if the thermometer will not be used for more than two months.

■ Troubleshooting

Problem	Possible Cause	Solution
The thermometer fails to power on.	Low battery	Change the batteries.
	Polarities of the batteries are reversed.	Make sure that the batteries are installed correctly.
	The thermometer is damaged	Contact the manufacturer.
"Er1" is displayed.	The ambient temperature is lower than 10°C (50.0°F) or higher than 40°C (104°F).	Take a measurement under an ambient temperature between 10°C (50.0°F) and 40°C (104°F).
The temperature reading is lower than the typical body temperature range.	The lens of the temperature probe is dirty.	Clean the lens using a cotton swab.
	The thermometer probe is not aligned to the eardrum.	Reposition the thermometer probe so that it is aligned to the eardrum.
	The thermometer is used within 30 minutes after being taken from a cold environment.	Wait for more than 30 minutes after the thermometer is moved into the measurement environment.
The temperature reading is higher than the typical	The temperature probe is damaged	Contact the manufacturer.

body temperature range.		
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■ Specification

Product Name	Infrared Thermometer
Product Model	JPD-FR409-BT
Power Supply Mode	Internal power supply
Operating Voltage	DC 3V
Battery Model	AAA x 2
Battery Life	Alkaline dry battery for around 20,000 measurements
Operating Mode	Continuous operating
Display	Segment LCD
Measure time	About 1 second
Latency Time	About 3 second
Measuring Range	Forehead mode: 22.0°C–43.0°C (71.6°F–109.4°F)
	Ear mode: 34.0°C–43.0°C (93.2°F–109.4°F)
	Object mode: 0.0°C–100.0°C (32.0°F–212.0°F)
Accuracy (Laboratory)	Forehead: ±0.2°C (36.0°C–39.0°C) ; ±0.3°C (22.0°C–36.0°C / 39.0°C–43.0°C);
	Ear mode: ±0.2°C (36.0°C–39.0°C) ; ±0.3°C (34.0°C–36.0°C / 39.0°C–43.0°C); Object mode: ±1.0°C/ ±2.0°F
Resolution	0.1°C (0.1°F)
Memory	20 temperature readings
Low-battery Alert	The low-battery symbol is displayed if the power voltage is lower than 2.5V ±0.1V
Automatic Power-off	The thermometer automatically powers off if it is not used in 10 ±1 seconds.
Outer dimensions (mm)	155.2x39.6x49.1mm
Weight (g)	Thermometer (with batteries): 101 g
Operating	Temperature: 10°C–40°C (50°F–104°F)

Environment	Humidity: 15%- 95% RH, non-condensing
	Atmospheric pressure: 86 - 106 kPa

The infrared thermometer has been tested and conforms to the standard ASTM E1965-98. ASTM laboratory accuracy requirements in the display range of 96.8°F to 102.2°F (36°C-39°C) for ear canal IR thermometers is $\pm 0.4^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$). Note that for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is $\pm 0.2^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$).

■ Security Class

Type of protection against electric shock: internally powered equipment.

Degree of protection against electric shock:  Type BF applied part.

■ Degree of protection against ingress of water: IP22

■ Safety degree of using in flammable anesthetic gas blending with air oxygen or nitrous oxide: Non-AP/APG

■ No application parts of the thermometer prevents defibrillation charge effect.

■ No application parts of the thermometer output signal.

■ The thermometer is permanent installed device.

■ Storage and Transportation

The thermometer can be transported using general transportation tools.

Severe vibration, shock, or rain must be avoided during transportation.

The thermometer must be packaged and then stored in a well-ventilated room without corrosive gas. The ambient temperature must be between -20°C and $+50^\circ\text{C}$ (-4°F - 122°F), the relative humidity must be 0%-95%RH. (non-condensing), and the atmospheric pressure must be 50-106 kPa.

■ EMC Information-Guidance and Manufacture's Declaration

1* 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.

2* 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.

3* 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 ME equipment, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Table 1

Declaration - electromagnetic emission	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not applicable
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable

Table 2

Declaration - electromagnetic immunity		
Immunity test	IEC 60601 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	± 2 kV for power supply lines ± 1 kV for input/output lines	Not applicable
Surge IEC 61000-4-5	± 0.5kV, ± 1 kV line(s) to lines ± 0.5kV, ± 1 kV, ± 2 kV line(s) to earth	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycles	Not applicable
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m
NOTE: UT is the a.c. mains voltage prior to application of the test level.		

Table 3

Declaration - electromagnetic immunity		
Immunity test	IEC 60601 test level	Compliance level
Conducted RF IEC 61000-4-6	3 V 0.15 MHz to 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz	Not applicable
Radiated RF IEC 61000-4-3	10V/m 80 MHz to 2.7 GHz	10V/m

Table 4

Declaration - IMMUNITY to proximity fields from RF wireless communications equipment					
Immunity test	IEC60601 test level				Compliance level
	Test frequency	Modulation	Maximum power	Immunity level	
Radiated RF IEC 61000-4-3	385 MHz	**Pulse Modulation: 18Hz	1.8W	27 V/m	27 V/m
	450 MHz	*FM+ 5Hz deviation: 1kHz sine	2 W	28 V/m	28 V/m
	710 MHz 745 MHz 780 MHz	**Pulse Modulation: 217Hz	0.2 W	9 V/m	9 V/m
	810 MHz 870 MHz 930 MHz	**Pulse Modulation: 18Hz	2 W	28 V/m	28 V/m
	1720 MHz 1845 MHz 1970 MHz	**Pulse Modulation: 217Hz	2 W	28 V/m	28 V/m
	2450 MHz	**Pulse Modulation: 217Hz	2 W	28 V/m	28 V/m
	5240 MHz 5500 MHz 5785 MHz	**Pulse Modulation: 217Hz	0.2 W	9 V/m	9 V/m
<p>Note* - As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case. Note** - The carrier shall be modulated using a 50 % duty cycle square wave signal.</p>					

■ Warranty and After - Sale Service

The device is under warranty for one year from the date of purchase. The batteries, the packaging, and any damage caused by improper use are not covered by the warranty.

Excluding the following user-caused failures:

1. Failure resulting from unauthorized disassembly and modification.
2. Failure resulting from an unexpected dropping during application or transportation.
3. Failure resulting from not following the instructions in the user's manual.



