SMDT-JPD-FR409

$C\epsilon$ 0598

iDigiTemp

Infrared Thermometer
Instruction Manual
Smart Meter, LLC

Product Information

Product Name: iDigiTemp Infrared Thermometer

Model: SMDT-JPD-FR409

Manufactured for:

SMART METER, LLC

6005 Benjamin Rd, Suite A, Tampa, FL 33634

Manufacturer: Shenzhen Jumper Medical Equipment Co., Ltd

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Statement

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Introduction

Thank you for purchasing iDigiTemp. 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.

Contents

Unpacking Check

Please open the package carefully before use, check that all accessories are included if any component is damaged. Perform device set up and operational instructions following this user manual. In case of any damage or operation problem, please contact Smart Meter Customer Support Mon - Fri, 9am - 5pm EST at 1-844-445-8267 or email us at support@iglucose.com.

Package Contents

No.	Name	Quantity
1	Infrared Thermometer	1
2	Pouch	1
3	Battery (AAA)	2
4	Instruction Manual	1
5	Quick Start Guide	1

Safety Precautions

**Read the following precautions carefully
before using the thermometer.**

⚠ **Attention**
◆ Take care of the temperature probe lens, which is fragile.
◆ No service /maintenance while the equipment is in use.
◆ Dispose used batteries with care. To protect the environment, you are recommended to send the used batteries to a designated collection point.
◆ The thermometer doesn't need recalibration.
◆ Make sure that the thermometer is not exposed to lint, dust, light (including sunlight), etc. - Please note the effects of degraded sensors that can degrade performance or cause other problems. - Make sure that the thermometer is not exposed to pets or pests.
◆ If the thermometer is soiled or its infrared optical components are damaged, please stop using it.
◆ The lay operator or lay responsible organization should contact the manufacturer or manufacturer's representative on the following issues: assistance in setting up,

using, or maintaining the equipment or system when needed, or to report unexpected operation or events.
◆ The IR thermometer is identified as intended for consumer use. The patient is an intended operator.
◆ The effect that the following actions could be unsafe as applicable: use of accessories, detachable parts, and materials not described in the instructions for use or modification of the equipment.
◆ The hazards that can result from unauthorized modification of the ME equipment.
◆ The manufacturer can provide the circuit diagram, component part list, description and calibration instructions to assist service personnel for parts repair.
◆ Do not subject the thermometer to vibration or impact.
◆ Do not take body temperature readings within 20 minutes after you do physical exercises or get excited.
◆ Do not use the thermometer for continuous temperature monitoring purposes.
◆ Do not use the thermometer for purposes that are not specified in this User 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. 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 ensure 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 an expired thermometer to local garbage disposal site.
◆ 2 AAA batteries of 1.5V are the only replaceable accessories of the thermometer. Please do not use 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.
● Do not use the thermometer if the ear is infected with otitis or suppuration.
● Keep the thermometer out of the reach of children.
● The result may be inaccurate if you use an expired 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.
⊘	Do not open the battery cover when using the thermometer.

Symbols

Symbol	Description
🖈	Type BF applied part.
⚠	Attention must be paid.
⊘	The action is prohibited.
🏭	Information about the manufacturer.
�	Date of manufacture.
👁	Consult the instructions for use.
MD	Medical Device
EC REP	Authorized European Representative

Symbol	Description
$C\,\epsilon$ 0598	This product complies with the Regulation (EU) 2017/745 requirements.
	Waste electrical materials should be sent to a dedicated collection point for recycling.
IP22	Degree of protection against the Ingress of water.
	Humidity
	Temperature limitation
	Atmospheric Pressure
⚠ 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.

Measuring Site vs. Reference Body Site

The iDigiTemp infrared thermometer measure temperature at external sites and is intended for use with the forehead or ear canal. However, the accuracy is clinically validated by comparing readings to an internal reference site (armpit) in accordance with ISO 80601-2-56 or ASTM E1965-98 standards.

Body Temperature Basics

• The normal body temperature is a range.
• The normal range varies from person to person and can fluctuate throughout the day.
• The normal range also varies by body site. Therefore, measurements from different sites should not be compared directly.
To determine if an individual is experiencing an elevated body temperature and/or having a fever, it is critical to know the individual's normal body temperature when he or she is well. Take multiple readings to obtain the

normal body temperature range and note the specific body site measured, for example: the forehead or eardrum temperature.

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)

The normal body temperature range varies slightly with age and gender. Generally, newborns or children have higher body temperatures than adults, and adults have higher body temperatures than the elderly. Women's body temperatures are approximately 0.3°C (0.5°F) higher than men's.

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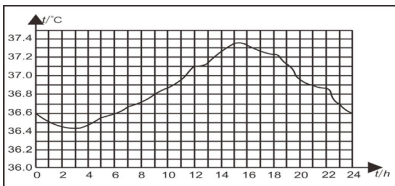
Normal body temperature fluctuates throughout the day and is also affected by external factors. The body temperature of an individual is the lowest between 2:00 a.m. and 4:00 a.m. and the highest between 2:00 p.m. and 8:00 p.m. An individual's body temperature typically changes by less than 1°C (1.8°F)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

Product Description

1) Overview:

Infrared Thermometer SMDT-JPD-FR409 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.
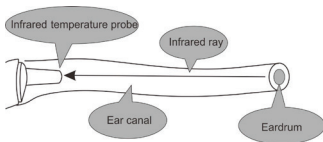
4) Intended use:

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

5) Contraindications:

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

Features

01 Safety
- ● Passive infrared receiving technology

02 Easy operation
- ● Ergonomic design
- ● One button measurement
- ● Automatic switching mode

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   Connecting to the cellular network

● Automatically assess the network

● Automatically store and upload

data

07   Intended patient population

● Forehead mode applies to all age

groups

● Ear mode applies to people over

the age of 3 months

08   **Cellular Signal**
iDigiTemp is a cellular device. Each
time you perform a temperature
test, the meter will automatically
connect to the cellular network and
transmit your test result back to
your healthcare provider or care
team. The SIM card in iDigiTemp is
equipped with the capability to scan
and connect to multiple cellular
carrier networks and will allow the
device to operate on the strongest
available network in the device's
geographic area. In the event there
is a service interruption, the SIM
card will switch to another available
network, maintaining an
uninterrupted connection. In the

rare instance where your meter is not connecting to a cell network, you can call the Smart Meter Customer Support at 1-844-445-8267, and they will assist you in the use of the signal quality function.

Product Structure
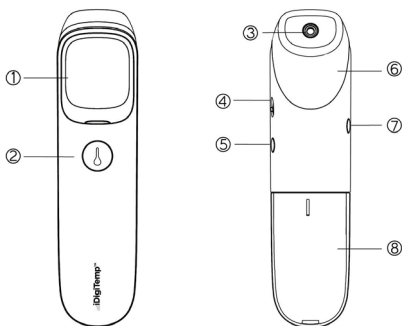
(1) LCD display screen
(2) Power button/Measure button
(3) Probe
(4) Unit switch (°C/°F)
(5) Mute button
(6) Probe cap (put the cap on automatic switching to the Forehead mode) (take the cap off automatic switching to the Ear mode)
(7) Memory button
(8) Battery cover

WARNING
This device is not compatible with ear probe covers.
Using a probe cover may result in inaccurate measurements or prevent the thermometer from operating.

Display Description
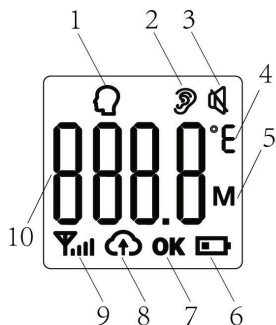
1.Forehead temperature mode
2.Ear temperature mode
3.Mute / un-mute
4.Fahrenheit / Celsius degrees
5.Memory recall
6.Low battery
7.Transmit successfully Icon
8.Data transmit Icon
9.Signal indication Icon
10.Temperature value

Sounds and Indicator Color Instructions
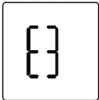
Range	Sounds	Indicator Color
Forehead temperature		
22.0°C-37.5°C/ 71.6°F-99.5°F	A long beep	Green
37.6°C-43°C/ 99.6°F-109.4°F	3 short double beeps	Red
Ear temperature		
34.0°C-37.5°C/ 93.2°F-99.5°F	A long beep	Green
37.6°C-43.0°C/ 99.6°F-109.4°F	3 short double beeps	Red
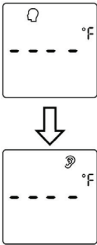
Note: When the forehead temperature is between 22.0°C/71.6°F and 37.5°C/99.5°F, the ear temperature is between 34.0°C/93.2°F and 37.5°C/99.5°F, there will be a long beep and a yellow light. This indicates that your body temperature is normal. When the forehead and ear temperature is between 37.6°C/99.6°F and 43.0°C/109.4°F, there will be 3 short double beeps and a red light. 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
Connecting to the cellular network		
	When the device is turned on for the first time or after battery replacement, the device will automatically connect to the cellular network. The icon "**OK**" appears and on the screen confirms connection to the cellular network is successful. Note: (1) After successful connection,	Silent

	the device will automatically shut down if there is no operation for about 10 seconds.	
	(2) Network connection varies based on signal strength. With a strong signal, connecting typically takes about 15 seconds. In the case of abnormal connection or poor signal, the connection process will be repeated and the time extended.	
Connecting to the network fails		
[3]	If network connection fails, the Error symbol "E3" will appear on the screen, press the Measure button again to start	Silent

	measurement.	
	Note:	
	(1) The device can measure the temperature in an offline state.	
	(2) All the measurement data is automatically stored. Once the network connection is successful, the device will automatically upload all the data.	
Measurement mode switch		
	(1) Put on the probe cap, the device will automatically switch to Forehead mode and the Head icon "⌂" appears.	Silent
	(2) Take off the probe cap, the device will automatically switch to Ear mode and the Ear icon "𝒟"	

	will appear on the screen.	

Measuring Ear temperature		
	Take off the probe cap, the ear icon "𝒟" will appear on the screen.	See the table in the "Sounds and indicator color instructions" section
	Press the Measure button to start a measurement.	
	After the measurement, the data transmission automatically starts.	
	Note:	
	(1) After measurements, three sets of data can be uploaded at a time, until all data is uploaded.	

Measuring Forehead temperature		
Put probe cap on and the head icon "Ω" will appear on the screen.		
	Press the Measure button to start a measurement.	See the table in the "Sounds and indicator color instructions" section
	After the measurement, the data transmission will automatically start.	
	Note:	
	(1) After measurements, three sets of data can be uploaded at a time, until all data is uploaded.	
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	A long beep, the indicator light is red.

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	temperature reading of more than 43.0°C (109.4°F)	
Lo °F	In Ear mode, a temperature reading of less than 34.0°C (93.2.0°F) In Forehead mode, a temperature reading of less than 22.0°C (71.6°F)	A long beep, the indicator light is red.
Switching between °F/°C		
---- °C ---- °F	Switching Unit by the side °C/°F switcher	Silent

Recall 20 memories		
	In a power-on state, press the **Memory button** to enter the memory mode.	
`01`	When the **Memory button** is released, **01** will be shown, followed by the recorded reading.	
⬇		
`98.4°F`	Press the **Memory button** again for the next recorded data. **02** will be shown, followed by the recorded reading.	Silent
⬇		
`02`		
⬇	A maximum of 20 temperature readings can be recalled.	
`98.4°F`	When the maximum number of records is exceeded, the earliest memory data will be	
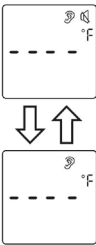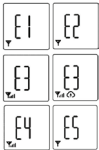
22

	overwritten.	
	Note:	
	1 represents the newest data.	
No memory data / Clear memory data			
	The display is as shown when there is no more data checked while recalling memories. 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 yellow, then turns red.
Switching between mute and un-mute			
	Press Mute button to turn the sound on or off. When the sound is turned off, the "🔇" appear. When the sound is turned on, it will beep once and the "🔇" will disappear.	When the sound is turned on, a long beep.

Error information & low battery		
ErI ErC	●The ambient temperature is higher than 40.0°C (104.0°F) or lower than 10.0°C (50.0°F). ●An error occurs when data is being read from or written to the memory, or the temperature correction is not complete.	A long beep, the indicator light is red.
E1 E2 E3 E3 E4 E5	Error message in 4G status display. Follow the instructions in Troubleshooting.	Silent
▬	When the battery voltage is lower than 2.7V ± 0.1V, the low battery symbol will appear. Please replace the batteries.	Silent

Measuring Ear Temperature

(1) When using the thermometer for the first time, move the battery's insulating piece away.
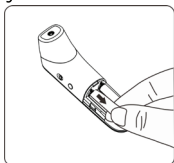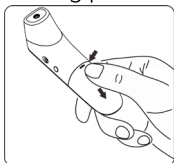
(2) Press the Power button to power on the thermometer.
(3) Take the probe cover off from the thermometer before measuring the ear temperature.

The device will automatically switch to Ear mode and the Ear icon "" appears on the screen.

Note:

1. If network connection fails, the Error symbol "**E3**" appears on the screen. The device can still be used in this state and the reading will be stored until the device is able to connect the cellular network.
2. When a network connection is

successful, the device will automatically upload all measurement data.

- Insert the temperature probe into the ear canal.
- Press and release the Measure button. The ear temperature reading will appear on the screen instantly.

Note: For children under the age of 1: Pull the ear straight back.

For children age 1 to adult: Pull the ear up and back.

⚠ Do not force the thermometer into the ear canal, this could result in injury to ear canal.

⚠ When taking the temperature on an adult, gently pull the ear up and back to ensure the ear canal is straight, this will allow for the temperature probe to receive an infrared ray from the eardrum.

⚠ Use caution when taking a child's temperature, as their ear canal is smaller.

Measuring Forehead Temperature

(1) Turn on the thermometer, the device will automatically switch to Forehead mode.

(2) The Forehead icon "⋂" will appear on the screen.

(3) Point the thermometer probe to the sides of the forehead, about 1-3cm away from the skin surface.
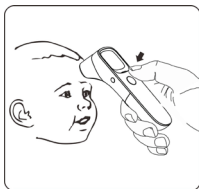
(4) Press and release the **Measure button**. The temperature reading will be displayed on the screen instantly.

After measurement

(1) After each measurement the readings stored in the device will be automatically uploaded. Three sets of data can be uploaded at a time, until all measurement data is uploaded.

(2) After successful measurement

upload, press the button to continue with the next measurement. The device will automatically power off after 10 seconds when not in use.

(3) If the measurement data is not uploaded promptly or fails to upload, it will be saved on the device and will be sent when a cellular connection is established successfully. The device can store up to 20 readings.

(4) If the thermometer is used without being connected to the cellular network, the device will automatically connect to the network when a cellular signal becomes available, and the measurement data will be uploaded.

(5) After each measurement, you can enter the recall mode and access earlier temperature readings. For more details, see "Recall 20 memories" in the preceding table.

(6) After each measurement, clean the temperature probe with a soft cloth, and store the thermometer in a dry and well-ventilated place.

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 debris exists. Otherwise, the temperature probe may be polluted, and temperature readings may be inaccurate.

3. The thermometer is sensitive to ambient temperature, avoid holding the thermometer for a period of time longer than what is needed to successfully take a measurement.

4. Make sure the sensor head is free of foreign materials before use.

5. Make sure the forehead has no items like sweat or hairs covered before measuring the forehead temperature, otherwise the result could be incorrect.

6. Do not perform intense exercise

before taking a measurement.

7. After taking a measurement, wait for the indicator to turn off before taking another reading.

Replacing Batteries

(1) Slide the battery cover off along the marked direction and remove.

(2) Insert two AAA batteries into the compartment according to the direction guidance in the compartment.
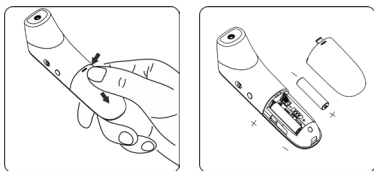
⚠ Make sure that the batteries are installed correctly. Incorrect battery placement may result in damage to the device.

⚠ If the low-battery symbol appears on the screen, replace the batteries.

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

⚠ The thermometer is shipped with the batteries pre-installed, pull the plastic insulating strip before first use.

Cleaning and Disinfection

Cleaning

Recommended detergents:

* Medical detergents

* Home use mild detergents

Cleaning steps:
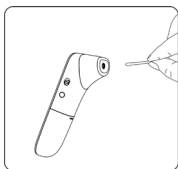
(1) Remove batteries before cleaning.

(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, this can 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 a 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:

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 period of 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 Smart Meter Customer Support at 1-844-445-8267.
"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 body temperature range.		The temperature probe is damaged.	Contact Smart Meter Customer Support at 1-844-445-8267.
Error message in 4G status display	"E1" displayed	Communication failure	Contact Smart Meter Customer Support at 1-844-445-8267.
	"E2" displayed	SIM card is not detected or SIM card is abnormal	Contact Smart Meter Customer Support at 1-844-445-8267.
	"E3" displayed	Data transmission error	●Re-measure at a location where you get a strong cellular signal with your mobile phone. If the issue persists, contact Smart Meter Customer Support at 1-844-445-8267. ●Reinstall the battery.
	"E4" displayed	Network registration error	Re-measure at a location where you get a strong cellular signal with your mobile phone.
	"E5" displayed	No signal detected	Re-measure at a location where you a get strong cellular signal with your mobile phone. If the issue persists, contact Smart Meter Customer Support at 1-844-445-8267.

Specifications

Product Name	iDigiTemp Infrared Thermometer
Product Model	SMDT-JPD-FR409
Power Supply Mode	Internal power supply
Operating Voltage	DC 3V
Battery Model	AAA x 2
Service life	2 years
Battery Life	Alkaline dry battery for around 300 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)

Accuracy (Laboratory)	Forehead mode: ±0.2°C (36.0°C-39.0°C). ±0.3°C (22.0°C-35.9°C / 39.1°C~43.0°C). Ear mode: ±0.2°C (36.0°C-39.0°C). ±0.3°C (34.0°C-35.9°C / 39.1°C~43.0°C).
Accuracy (Clinical)	±0.3°C (±0.6°F)
Resolution	0.1°C (0.1°F)
Measuring site	Ear canal, Forehead (keep distance 1~3 cm from forehead)
Reference body site	Armpit
Mode of operation	Adjusted mode
Software version	4.0
Memory	20 temperature readings

Low-battery Alert	The low-battery symbol is displayed if the power voltage is lower than 2.7 V±0.1V
Automatic Power-off	The thermometer automatically powers off if it is not used in 10 ±1 seconds.
Outer dimensions (mm)	155.2×39.6×49.1mm
Weight (g)	Thermometer (with batteries): about 111 g
Manufacturing date	see the label
Operating Environment	Temperature: 10°C~ 40°C (50°F~104°F)
	Humidity: 15%~95% RH, non-condensing
	Atmospheric pressure: 86~106 kPa
Storage and Transportation	Temperature: -20°C to 55°C (-4°F~133°F)
	Humidity:15%~ 95% RH, non-condensing

	Atmospheric pressure: 50–106 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 ±0.4°F (±0.2°C). Note that for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is ±0.2°F (± 0.1°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 impermanent
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.

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

Immunity test	IEC60601 test level				Compliance level
	Test frequency	Modulation	Maximum power	Immunity level	
Radiated RF IEC	385 MHz	**Pulse Modulation:	1.8W	27 V/m	27 V/m

61000-4-3		18Hz			
	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	**Pulse Modulation: 217Hz	0.2 W	9 V/m	9 V/m

	5785 MHz				

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.

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with

the instructions, may cause harmful
interference to radio communications.
However, there is no guarantee that
interference will not occur in a particular
installation.
If this equipment does cause harmful
interference to radio or television
reception, which can be determined by
turning the equipment off and on, the
user is encouraged to try to correct the
interference by one or more of the
following measures:
-- Reorient or relocate the receiving
antenna.
-- Increase the separation between the
equipment and receiver.
-- Connect the equipment into an outlet
on a circuit different from that to which
the receiver is connected.
-- Consult the dealer or an experienced
radio/TV technician for help.
Caution: Changes or modifications not
expressly approved by the party
responsible for compliance could void
the user's authority to operate the
equipment.

US Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

After-sale service unit:

Smart Meter, LLC

6005 Benjamin Rd, Suite A, Tampa, FL 33634

Tel: 1-844-445-8267

E-mail：support@iglucose.com

Website: www.smartmeterrpm.com

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