1 Important Safety Notes

To ensure the correct usage of the product, basic safety measures should always be followed, including the precautions listed below.The patient is considered the intended operator, and all functions can be safely utilized.

⚠ WARNINGS

- Never use the thermometer for purposes other than those it has been intended for.
- Carefully read and follow the enclosed instructions to ensure accurate temperature readings.
- Keep out of reach of unattended children.
- Please keep still during measurement. Do not allow children to walk or run while taking a temperature.
- A prolonged period of high temperature requires medical attention. Contact a doctor when necessary.
- Do not attempt measurements when the thermometer is wet as inaccurate readings may result.
- Use of this Device adjacent to or stacked with other device should be avoided because it could result in improper operation. If such use is necessary, this Device and the other device should be observed to verify that they are operating normally.
- Please dispose of waste in accordance with national regulations on environmental protection.
- If the product will not be used for a long time, please remove the battery and place it properly.
- This thermometer uses Bluetooth Low Energy 4.0 technology. Keep the Device away from sources of high levels of electromagnetic field (in excess of 30 A/m) to reduce the likelihood of interference.
- Movement from external sources such as being pushed in a bassinet or traveling in a vehicle may be detected by the Device.
- The monitored child must sleep in their own separate bed as the Device may detect the movement of any other person sharing the bed with the child and may introduce false reading as long as it detects movement.
•During the warranty service, if necessary, the circuit diagram and necessary materials can be provided. If there are any problems with the maintenance of the electrical circuit, please contact the manufacturer

⚠ CAUTION

- Do not bite the thermometer. Doing so may lead to breakage and/or injury.
- Do not share the thermometer among individuals.
- Do not attempt to disassemble or repair the thermometer. Doing so may result in inaccurate readings.
- Do not attempt to incinerate the battery. It may burst.
- Pay attention to polarity (+ / -) when replacing the battery. Failure to do so may lead to fluid leakage, heat generation or bursting, resulting in damage to the unit.
- Do not use the thermometer in places where strong static electricity or electromagnetic fields are present. Doing so may lead to inaccurate readings and may contribute to instrument failure.
- Do not step on the unit or the hard case.
- Do not attempt to disinfect the probe sensor of the thermometer by immersing in alcohol or in hot water (water over 50°C).

⚠ GENERAL SAFETY PRECAUTIONS

- The is suitable for home healthcare environments.
- Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.
- Do not use the thermometer to measure anything other than human body temperatures.
- Avoid taking the temperature until after 30 minutes has lapsed after exercise, bathing or eating/drinking.
- Dispose of the thermometer when its service life is reached. Follow local regulations regarding the disposal of such product.
- When the performance changes (such as: inaccurate temperature measurement, inaccurate temperature measurement or abnormal display), please stop using it immediately and contact the after-sales service personnel in time.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the this device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

What's in the Package

Smart Thermometer | Medical Patch | User Manual

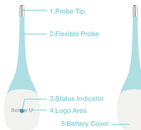
2 Introduction

The Sense-U Smart Thermometer Device tracks your child's ampit temperature, and chest movements as a sleep quality indicator, and sends the real-time health data to the App.

The App notifies when something happens, based on the data sent from the Thermometer Device. Your smartphone is your primary notification device in the event of an alert notification and should be placed in a location where you can hear it if it sounds.

The communication distance is up to 50 feet (15 meters) in open space. Brick wall or obstacles in between may affect the distance dramatically.

3 Indications for Use



The Sense-U Smart Thermometer is a wearable thermometer that safely and conveniently monitors your child's ampit temperature and chest movements during sleep. It lets you know when something happens to your child, from anywhere.

The Device can be used by adults and children over the age of 6 months old.

4 CONTRAINDICATION

It is forbidden for patients allergic to stainless steel and PC plastic.

5 How to Use

5.1 Requirements

1. The Bluetooth on your smart device needs to be turned on to connect.

2. The communication distance is up to 50 feet (15 meters) in open space. Brick wall or obstacles in between may affect the communication distance dramatically.

3. One Sense-U Device can only connect to one smart device directly at any one time. To pair to another smartphone, you need to log out of the Sense-U App on the paired smart device first. Then log on the Sense-U App on the other smart device. An optional Base Station supports twins and multiples.

4. For Android devices, please make sure Location Permissions are enabled for the App in Settings->Connections->Location and Settings->Apps -> Sense-U->Permissions. If Location is not enabled it may not be able to pair to the Device.

5. Pull out the battery separator to power on the Device.

5.2 Download the Sense-U App

1. Download the free Sense-U App, available for iOS and Android from the Apple App Store and Google Play.

2. Allow all requested permissions for the Sense-U App, e.g. Location, Bluetooth, no optimization of battery usage, etc.

3. Create a free Sense-U account.

5.3 Pair the Device

Follow the in-app instructions to pair the Device.

Pairing: double shake the Device, until the Device flash BLUE 3+ times (waiting for pairing)

5.4 How to Wear and Measure

Step 1: Remove the liner from the other side of stripe A, and adhere the Device to strip A with the Sense-U logo on the top.

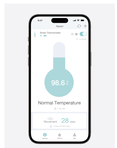
Step 2: Stick the Device with stripe A to the right chest area and ensure the probe tip reaches armpit area.

Step 3: Peel off the upper liner from strip A.

Step 4: Repeat steps 1-3 for strip B, covering the probe tip and sticking it to the underarm.

Step 5: Wait for 5 plus minutes, until the App shows a stable temperature reading.

NOTE:
A fever is defined as body temperature that is elevated above the normal range of 36.1°C-37.2°C. Elevated temperature is normal for an individual before determining if a fever is present. Tracking an individual's temperature on a consistent basis, at the same time of day, under the same conditions, is a good practice as well or healthy will help determine an individual's normal temperature.



6 Sense-U App at a Glance

Home Screen

Error	Problem/Cause	Solution
Temperature Too Low	Below 50.0°F (10.0°C)	Try measuring the temperature again. Make sure that your environment is in the operating range and that the thermometer is placed as described in the diagram in the 5.4' section
Temperature Too High	Above 108°F (43.0°C)	Try measuring the temperature again. Make sure that your environment is in the operating range and that the thermometer is placed as described in the diagram in the 5.4' section
--	There is no temperature reading	Check whether the Device is disconnected, check whether the switch (button is turned off.

Me

1. Account: Update my profile, Child Profiles, Dark Mode, Language, log out, etc
2. Messages: News & Savings and System notifications
3. Help: User manuals
4. Contact Us: Have questions about your Sense-U products? Contact us here and include your device / app info, which will greatly expedite the diagnosis process.
5. Manage Devices: Change notification settings, check device information, update firmware, delete device, etc
6. Widget: Real-time data in lock screen for easy access
7. Family Sharing: Share with family members
8. Love the Product? Rate it
Like our product? Support us with a review
9. Refer: Refer a friend and earn
10. Buy: Find exclusive deals available in the Sense-U official store (www.sense-u.com)

Device Setting

1. Device Name: Please name your device
2. Assigned To: A child or another child
3. Firmware Update
4. Smart Thermometer: Device Switch
5. Chest Movement Alerts: Alert when movement gets out of preset range
6. Temperature Alert: Alert when temperature gets out of preset range
7. Wearing Detection(Beta)
Stop detecting movement automatically when the device is not worn.
8. Device Information

⚠ To receive audible alarms, notifications need to be switched on for the Sense-U App: from Settings->Notifications->Sense-U.

⚠ For Android devices, make sure Media Volume is switched on in Settings->Sounds and Vibration->Volume. Make sure your smart device is not in Do Not Disturb mode.

7 Indicator Lights

Pairing	Green	Double shakes detected
	Blue (flashing)	Waiting for Bluetooth pairing
	Green (3 times)	Paired successfully
	Red (3 times)	Pairing timeout
Interaction (tap on / off button)	Green (1 sec)	Battery level normal
	Red(1 sec)	Battery level low (< 20%)
Updating	Blue (solid)	Updating firmware

8 Battery

The battery life is up to 1 month when used for 8 hours per day.

Battery Replacement
1. Use a warping piece to take off the battery cover
2. Remove the battery
3. Insert the new battery with the "+" pole facing up
4. Put the battery cover back

9 Care and Maintenance

1.Keep the thermometer clean.Do not use strong jets of water to clean the thermometer or leave it immersed in water for long periods of time.

2.Wipe the thermometer with a soft clean cloth and sterilize the probe with ethyl alcohol.

3.For stubborn stains, wipe the thermometer with a cloth that has been dampened with water or a neutral detergent solution and then wring thoroughly. Finish by wiping with a soft dry cloth.

4.Observe the following to prevent damage to the thermometer.
- Do not use benzene, thinner, gasoline or other strong solvents to clean the thermometer.
- Do not place the thermometer in a hot spot (oven) for long periods of time or attempt to sterilize it using hot water (water at a temperature of 50°C (122°F) or higher).
- Do not use ultrasonic washing to clean the thermometer.
- Do not scale the display in water.

5.Do not store the thermometer in the following types of places. Doing so may damage the thermometer.
- Wet locations.
- Locations with high heat and humidity or those that are exposed to direct sunlight. Areas close to heating equipment, fire or open flames are considered to be locations with high temperatures.
- Locations where the unit will be subjected to leaning, shock or vibration.
- Pharmaceutical storage areas or locations where corrosive gases are present.

6.When the performance changes (such as: inaccurate temperature measurement, inaccurate temperature measurement or abnormal display), please stop using it immediately and contact the after-sales service personnel in time.

7.The thermometer is IP22 rated:
• The first digit (2 in IP22) refers to protection against solid objects. In this case, it means the equipment is protected against solid objects greater than 12.5mm in diameter, such as fingers or large tools.
• The second digit (2 in IP22) refers to protection against liquids. In this context, it means the equipment is protected against water dripping when tilted up to 15 degrees from its normal position.

8.Maintenance should be done by the operator as suggested.

9.No maintenance or servicing is required for the thermometer in use.

10 Technical Specifications

Product Name	Sense-U Smart Thermometer
Product Model	SU501
Measurement Range	94.0°F~108.0°F (34.4°C~42.2°C)
Measurement Sites	Underarm
Measurement Accuracy	±0.1°C / 0.2°F
App Display resolution	0.1°C / 0.2°F
Temperature Units	°C/°F, Switchable
Battery (Included)	d.c. 3V, CR2032
Service Life	1 years（device only, not included battery)
Working Conditions	Temperature: +50 to +104°F (+10 to +40°C) Humidity: 30-85%RH Atmospheric pressure: 70 KPa~106 KPa
Storage and Transport Conditions	Temperature: -4 to +131°F (-20 to +55°C) Humidity:10%-93%RH Atmospheric pressure: 70 KPa~106 KPa
Safety Classification Information (anti-electric shock)	Anti-electric shock type: Internal power supply Anti-electric shock degree for applied part: Type BF
Waterproof Rating	IP22
Accessories	Battery
Weight & Dimension	Approx. 23g (with battery installed), 120x35x8mm
Measurement Time	5 minute
Battery life	up to 1 month (8 hours per day)

11 EMC Information

Electromagnetic Emissions

Guidance and manufacturer's statement - Electromagnetic emission

Emission 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

Electromagnetic Immunity

Guidance and manufacturer's declaration - Electromagnetic immunity

Immunity test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Not applicable	Not applicable
Surge IEC 61000-4-5	Not applicable	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not applicable	Not applicable
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conducted RF IEC61000-4-6	Not applicable	Not applicable
Radiated RF IEC61000-4-3	3 V/m, 80 MHz - 2.7 GHz 80 % AM at 1 kHz	3 V/m, 80 MHz - 2.7 GHz 80 % AM at 1 kHz

NOTE UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration - Electromagnetic immunity

Portable and mobile RF communications equipment shall be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.						
Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Compliance level (V/m)
385	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3	27
450	430-470	GMRS 460 FRS 462	FM ±5 kHz dev 1 kHz sine	2	0.3	28
710	704-787	LTE Band 13, 17	Pulse modulation 217Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/ GSM 900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation 18Hz	2	0.3	28
870						
930						
1720	1700-1990	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1, 3, 4, 25 UMTS	Pulse modulation 217Hz	2	0.3	28
1845						
1970						
2450	2400-2570	Bluetooth WLAN 802.11 b/g/n RFID 2450 LTE Band 7	Pulse modulation 217Hz	2	0.3	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3	9
5500						
5785						

12 Symbols and Descriptions

Symbol	Description
	Type BF applied part
	Caution! Please refer to the Instruction Manual.
	Waste products and electronic materials must be sent to a designated collection point for recycling.
⚠ Caution	Incorrect use of the thermometer may cause injury to the person or damage to the device.
⚠ Warning	Incorrect use of the thermometer may cause injury to the person or damage to the device.
	Manufacturer
	Consult the instructions for use
IP22	Ingress Protection Rating

FCC ID: 2AB899SU301
MODEL: SU501

FCC Statement
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

Shenzhen ACU Medical Technology Co., Ltd.
Add: Room 301&4F, Block A, Building A, Jinqiu Intelligent Manufacturing Park, Xiaoaiyuan, Guanlu Community, Xixiang Street, Bao'an District, 518126 Shenzhen, CHINA

DISCLAIMER

Customers use this thermometer at their own risk and Sense-U Inc., its members, employees, agents, contractors, representatives and affiliates (collectively "Sense-U Inc.") shall not be liable to the user of the product for any loss or damage suffered by the customer or any other person arising from, or in connection with, the use or manufacture of the monitor, including loss, damage or injury suffered by the customer or any other person as a result of any defects in respect of the monitor, and all warranties, and any other liability from whatsoever cause arising, are hereby excluded and the customer hereby indemnifies Sense-U Inc. in respect of any such liability.

GUARANTEE

Sense-U promises a 30-day Money Back Guarantee for this product and a 1-year Limited Warranty from the original date of purchase against defects in materials and workmanship. This warranty does not cover the battery, incorrect application, does not include transport costs. Our guarantee extends to all countries in which this product is supplied. By the act of operating this product, the user accepts all resulting liability. We reserve the right to modify the provisions of this warranty without prior product notice. This guarantee does not cover the battery, incorrect application, tampering, misuse or transport damage.

CONTACT US

For product questions, we recommend contacting us directly via in-app Feedback from the Sense-U App->Me->Contact Us for expedited diagnosis and response. For general questions, please email us at SUPPORT@SENSE-U.COM.

Date of Issue: March 2024
File No.: SU501_UI_3_1

Sense-U® Smart Thermometer
User Manual V2.0A1

感动科技	SU501_USER MANUAL DRAWING			
	SIZE	展开尺寸：880mm(L) X 90mm (W) 不含出盘 成品尺寸：110mm(L) X 90mm (W) 误差：±1mm	SCAL	1 : 1
	MATERIAL	98g 双铜纸，16p，风琴8折页，切好折好 温扶-压痕，红线-刀模	VERSION	3 - 1
SU501	COLOUR	双面4C	DESIGN	Coco
	DATE	2024 / 03 / 07	REVIEW	Bryan