

Non-Contact Thermometer

NT23B



EN



CE
2797



IP 22 RoHS REACH



MDSS GmbH
Schiffgraben 41
30175 Hannover Germany



AVITA Corporation
9F., No. 78, Sec. 1, Kwang Fu Rd.,
San Chung Dist., New Taipei City 24158, Taiwan, China



China, AVITA(WUJIANG)



Importer



Distributor

INSTRUCTION MANUAL

Please read this instruction manual carefully
before using your forehead thermometer

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Introduction

Thank you for purchasing this product, a professionally accurate instrument for fast and easy temperature taking non-contact temperatures. Please read these instructions carefully to ensure accurate temperatures and safe operation.

The device is optimized for use with the free app, but can be used alone as well. For the full experience including features such as symptom tracking and fever guidance, download the app on the App Store or Google Play store and connect your thermometer to your mobile device. For the full list of supported devices, see kinsahealth.com/phones.

Intended Use:

Touch Free Infrared Thermometer is intended for home use and the intermittent measurement of human body forehead temperature in people of all ages.

Features of your Thermometer

1. Fast 2 second reading.
2. Meets ASTM & ISO standards for professional accuracy.
3. Conveniently displays in °F or °C.
4. Water resistant, for safe cleaning.
5. Use with or without your mobile device.
6. Additional Smart functionality available through Kinsa app.

Contraindications:

1. Scarred or compromised tissues on measurement site.
2. Patient's skin's on certain medication of measurement site.

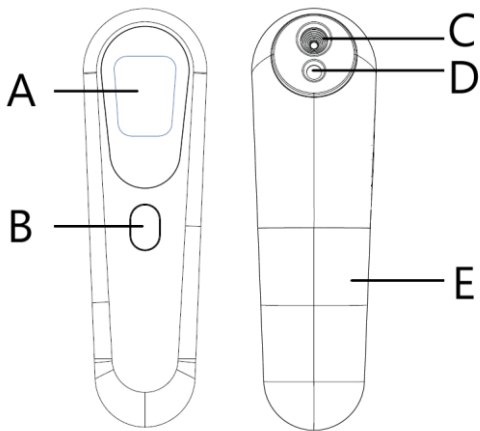
Warnings And Precautions

1. This thermometer functions mobile app with most Apple and Android mobile devices. Please see kinsahealth.com/phones for the full list of supported devices.
2. Never use the thermometer for purposes other than body temperature measurement. Please follow the safety precautions when using on children.
3. The operating ambient temperature range for this thermometer is 59° - 104 °F (15- 40 °C).
4. Do not expose the thermometer to temperature extremes: (below -13 °F / -25 °C or over 131 °F / 55 °C) or excessive humidity (>95% RH).
5. Use of this thermometer is not intended as a substitute for consultation with your physician.
6. High, prolonged fever requires medical attention. Be sure to contact your physician.
7. The thermometer is water resistant, not waterproof. Never dip the thermometer into water or other liquids.
8. For cleaning and disinfecting, please see Cleaning and Storage.
9. Keep out of reach of unattended children. Do not allow children to walk or run while taking a temperature.
10. Recommend using a password when enable Bluetooth function on your smartphone to protect your information.
11. The thermometer is calibrated at the time of manufacture. If at any time you question the accuracy of temperature measurements,

please contact an authorized distributor for sending calibration services, additional cost may apply for return shipping fee. To obtain further service please contact AViTA Corp.

12. If any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user is established.

Product Identification



- A LCD Display
- B Power/ Measure Button
- C Temperature Sensor
- D IR Sensor
- E Battery Cover

Set Up Your Thermometer for First Time Use

1. Open the battery door E.
2. Insert two AAA batteries (included), making sure the polarity are in the right direction. Snap battery door into place.
3. Enable Bluetooth on your mobile device.
4. Download the Kinsa app from the App Store or Google Play. The app can also be downloaded on kinsahealth.com/download. Please see kinsahealth.com/phones for the full list of supported devices.
5. Launch the Kinsa app.
6. Turn the thermometer on and follow the prompts to install.
7. Your thermometer is now successfully connected to your mobile device. For future temperature readings, open the Kinsa app to automatically sync readings to your mobile device and assign to individual family members, add notes or symptoms/medications, and see guidance.

To Set Up Your Thermometer with Additional Mobile Devices

1. If you have the original phone, open Kinsa, go to “More,” select the thermometer to remove and choose “Forget Thermometer.”
2. On the additional mobile device, repeat Steps 3 through 7 above.
3. Your thermometer is now successfully connected to an additional mobile device.

Replacing the Battery

The thermometer is powered by 2 AAA batteries. When the battery is low, the screen will display “APP” and the Kinsa app on your phone will show a low battery. When the battery is critically low, the app will display “APP” and “OFF” and automatically shut down.

To replace the batteries:

Open the back battery cover E by pressing on the Kinsa logo and applying downward pressure to slide it o-. Remove the old batteries and replace with new ones. Make sure the batteries are in the correct polarity direction. Close the battery cover.

To protect the environment, dispose of the product and empty batteries at your retail store or at appropriate collection sites according to national or local regulations.



CAUTION:

1. Risk of explosion if battery is replaced by an incorrect type.
2. It is recommended not to use rechargeable, unqualified or different spec of batteries as it may damage the device or cause circuit shortcut.

Operating the Bluetooth Function

This product is an **Non-Contact Thermometer with Bluetooth function design** without entering personal information. If the device has a transmission function, the transmission measurement data is designed to be encrypted and transmitted, and will not be tampered with or retrieve user-related information during the transmission process. The firmware and software of the product have been programmed in the production process, and the programming interface is different from the data transmission interface. When programming to the microcontroller, use an encrypted programmer, so there is no need to worry about the software being tampered with during transmission.

Bluetooth function requirement:

- An Android device with Android version 4.3 or above and hardware support for Bluetooth 4.2.
- An iOS device with iOS version 5 or above and hardware support for Bluetooth 4.2.

How to activate the Bluetooth function:

Please refer to the instruction manual of your mobile phone or computer for how to activate the Bluetooth function.

Set Up Process

- (1) Please determine your mobile phone or computer has BLE4.2.
- (2) Turn on the NT23B device, when the Bluetooth icon shows on the device , it means NT23B device is under broadcast condition.
- (3) Please check the connecting condition from your mobile phone or computer. The device name should be "NT23B" .
- (4) Every measure reading will be transfer to your mobile phone or computer automatically.

Taking a Temperature

1. Tap the Power/Start button A to turn on the thermometer. You will hear a beep when the thermometer is ready to take a temperature. The thermometer will be ready for temperature taking when the screen shows four dashes.
2. Ensure that no hair or cloth is between the measurement window and the skin. Point the device at the center of the forehead.
3. A beep will indicate when the temperature measurement is successfully completed. Temperature readings typically take 2 seconds.
4. The temperature reading will be shown on the illuminated display. A smiling face icon indicates that the temperature is normal while a neutral or frowning face indicates a mild or high fever, respectively.
5. The thermometer will automatically turn off after 45 seconds of inactivity. The display will briefly flash OFF and it will go blank. You can also hold down the button to power off.

Cleaning and Storage

To ensure your device is recording accurate temperatures, it is very important to keep the temp sensor window clean. To clean the window, gently wipe it with a cotton swab or soft cloth moistened with alcohol. Gently circle the alcohol wipe around the inner sensor area. Never submerge your Kinsa or put it in boiling water or a dishwasher.

Error Codes

When a malfunction or incorrect temperature measurement occurs, an error message will appear as described below.





LCD Display	Cause	Solution
Hi	The temperature measured is higher than 42.2 °C(108°F)	Operate the thermometer only between the specified temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact your retailer or Customer Services.
Lo	The temperature measured is lower than 34°C (93.2°F)	
Err	The operating temperature is not in the range 15°C~40°C (59°F~104°F)	Operate the thermometer only between the specified temperature ranges.

Troubleshooting

Trouble	Probable Case	Recommended Action
Failed to power on.	Batteries are drained.	Replace with a new battery
	Batteries are not correctly aligned with terminals.	Reinsert batteries correctly.
	The thermometer is damaged.	Contact your retailer or Customer Services.
Low battery symbol appears.	Low battery.	Replace with a new battery as soon as practical
	In colder temperature batteries have weaker electrical charges.	Warm up the batteries or use the device in a warmer setting.
The measurement is abnormal or if there is any doubt on the measured result	Incorrect measure position.	Reposition the probe point center of the forehead.
	The measuring distance is too far.	Maintain a distance of 3 cm.
	The measuring is hampered by hair, perspiration, oil, sweat, makeup, etc.	Remove obstructions from forehead.
	The lens of probe is dirty.	Clean the lens according to <i>cleaning and disinfecting</i> .
	You have just come	Stay in steady state

	from extreme temperatures environment.	room at least for 30 minutes.
	The thermometer has been stored in a cold room or exposed to direct sunlight.	Put the thermometer in steady state room at least for 30 minutes.
	Measurement was taken in surface temperature mode.	Switch mode to human mode.
Power switches off automatically.	System design.	Push the power button again.
	Batteries are drained.	Replace with a new battery
	The thermometer is damaged.	Contact your retailer or Customer Services.

Technical Specification










- Measuring range :
Human Body : 34°C~43°C (93.2°F~109.4°F)
- Calibration Accuracy:
Human Body : $\pm 0.2^{\circ}\text{C}(\pm 0.4^{\circ}\text{F})$: from 34°C~43°C (93.2°F~109.4°F)
- Display resolution : 0.1°C
- Operating environment : 15°C~40°C (59°F ~ 104°F) 
with relative humidity 15% to 95% (non condensing)
Atmospheric pressure: 700~1060 hPa 
- Storage/ Transportation environment :
-25 to 55 °C(-13 to 131 °F) 
with relative humidity 15% to 95% (non condensing)
Atmospheric pressure: 700~1060 hPa 
- Power supply: 2 x 1.5V LR03(AAA) alkaline
- Auto switch-off in 30 seconds without operation
- Memory: 30 sets
- Weight : approx. 63 g (without battery)
- Dimensions :
approx. 142*42*41.4 mm (L×W×H)
- Shelf Life : 3 years
- Battery Operation Time: About 90 minutes (Depends on different brand of batteries.)








EMC Tables








<p>NT23B is intended for use in the electromagnetic environment specified below. The customer or the user of NT23B must make sure that it is used in such an environment.</p>			
<p>Guidance and manufacturer's declaration - Electromagnetic emissions</p>			
Phenomenon	Professional healthcare facility environment a)	HOME HEALTHCARE ENVIRONMENT a)	
Conducted and radiated RF MISSIONS	CISPR 11 Group 1 Class A (Not BLE Function) Group 2 Class A (With BLE Function)	CISPR 11 Group 1 Class B (Not BLE Function) Group 2 Class B (With BLE Function)	
Harmonic distortion	Not applicable (Note: Power by Battery or DC Input) Only the AC input needs to be tested		
Voltage fluctuations and flickering	Not applicable (Note: Power by Battery or DC Input) Only the AC input needs to be tested		
<p>a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive acceptance limits of Group 1 Class B (CISPR 11) have been considered and applied. The equipment is suitable for use in the mentioned environments when directly connected to the Public Mains Network. b) The test is not applicable in this environment unless the ME EQUIPMENT and ME SYSTEM used will be connected to the PUBLIC MAINS NETWORK and the power input is otherwise within the scope of the Basic EMC standard.</p>			
<p>Guidance and manufacturer's declaration - Electromagnetic immunity - Enclosure port</p>			
Phenomenon	Basic EMC standard or test method	Immunity test levels	
		Professional healthcare facility environment	HOME HEALTHCARE ENVIRONMENT
ELECTROSTATIC DISCHARGE	IEC 61000-4-2	± 8kV contact ± 2 kV, ±4kV ±, ±8 kV, ±15 kV air	
Radiated RF EM fields	IEC 61000-4-3	a)	10 V/m b) 80MHz - 2.7 GHz 80% AM at 1kHz

Proximity fields from RF wireless communications equipment	IEC 61000-4-3	<p>COMPLIANT</p> <p>NOTE: Further information about distances to be maintained between portable and mobile RF communications equipment (transmitters) and the NT23B can be requested from supplier using the contact information provided in this manual. However, it is advisable to keep the equipment at an adequate distance of, at least, 0.5 m from mobile phones or other RF communications transmitters to minimise possible interference.</p>
RATED power frequency magnetic fields.	IEC 61000-4-8	<p>30 A/m c) 50 Hz or 60 Hz</p>
<p>a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive IMMUNITY acceptance limits have been considered and applied.</p> <p>b) Before modulation is applied.</p> <p>c) This test level assumes a minimum distance of at least 15 cm between the ME EQUIPMENT or ME SYSTEM and sources of power frequency magnetic fields.</p>		

Explanation of Symbols

	The CE marking with the Registration Number of the Notified Body. This denotes the compliance of Regulation (EU) 2017/745
	Medical Device
	Manufacturer
	Authorized representative in the European Community
	Date of manufacture (YYMMDD or YYYY-MM)
	Batch code (YYMMWWWW)
	Serial number (YYMWWWWXXXXX)
	Keep dry
	Temperature limit

	Humidity limitation
	Atmospheric pressure limitation
	Caution
	Consult the instruction for use
	Disposal information: Should you wish to dispose of the article, do so in accordance with current regulations. Details are available from your local authority. WEEE 2012/19/EU Directives
RoHS	This product fulfilling the requirements of the RoHS Directive 2011/65/EU.
REACH	This product fulfilling the requirements of the REACH Directive EC 1907/2006 and its amendments, do not contain Substances of Very High Concern in concentration above the limit of 0.1 %. No substance(s) is/are present in the parts of the product above the concentration of 0.1 % weight by weight.
	Stand-by
	Device classification type BF

<p>IP 22</p>	<p>This product meets the basic safety and essential performance requirements indicated in the IP22 conditioning test (protection against solid foreign objects of 12.5mm \varnothing and greater and against vertically falling water drops when enclosure tilted up to 15°)</p>																	
	<p>The empty, completely flat batteries must be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries.</p>																	
	<p>Importer</p>																	
	<p>Distributor</p>																	
	<p>Model Number</p>																	
	<p>Country of Manufacturer</p>																	
	<p>Unique Device Identifier</p> <table border="1" data-bbox="263 829 967 1065"> <thead> <tr> <th data-bbox="263 829 335 879">AI</th> <th data-bbox="335 829 672 879">Data Element</th> <th data-bbox="672 829 967 879">Data Type/Format</th> </tr> </thead> <tbody> <tr> <td data-bbox="263 879 335 929">(01)</td> <td data-bbox="335 879 672 929">Device Identifier(GTIN)</td> <td data-bbox="672 879 967 929">Numeric</td> </tr> <tr> <td data-bbox="263 929 335 979">(11)</td> <td data-bbox="335 929 672 979">Manufacturing Date</td> <td data-bbox="672 929 967 979">Numeric: YYMMDD</td> </tr> <tr> <td data-bbox="263 979 335 1029">(10)</td> <td data-bbox="335 979 672 1029">Lot Number</td> <td data-bbox="672 979 967 1029">Alphanumeric</td> </tr> <tr> <td data-bbox="263 1029 335 1065">(21)</td> <td data-bbox="335 1029 672 1065">Serial Number</td> <td data-bbox="672 1029 967 1065">Alphanumeric</td> </tr> </tbody> </table>			AI	Data Element	Data Type/Format	(01)	Device Identifier(GTIN)	Numeric	(11)	Manufacturing Date	Numeric: YYMMDD	(10)	Lot Number	Alphanumeric	(21)	Serial Number	Alphanumeric
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	<p>Keep away from sunlight</p>																	

Electronic IFU available at <http://www.avita.com.tw>

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