

A200 Infrared Thermometer

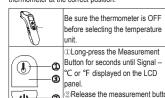
User Manual



THIS MEDICAL INSTRUMENT MUST BE USED ACCORDING TO INSTRUCTIONS TO ENSURE ACCURATE READINGS

File No.: A200-OPE V 1.2 2020/02

Turn ON/OFF the Led Light This meter provides Led Light to help users placing the thermometer at the correct position.



before selecting the temperature Long-press the Measuren Button for seconds until Signal -°C or °F displayed on the LCD — **(3** | panel. @Release the measurement buttor

figure shown

then short-press the ON/OFF

Button, the signal -- LEd or OFF will displayed on the LCD panel as

(3) Quick press the measurement button, and select LEd or OFF to turn ON/OFF the Led Light. Replacing the Battery

The thermometer comes with two 1.5 V AAA alkaline batteries. The meter will display " to alert you when the meter power is getting low, please follow the steps below to replace new batteries immediately.



1. Remove the battery cover as the arrow direction accordingly.

2. Remove the old batteries and replace with two 1.5V AAA size alkaline batteries. Taking care to match the Positive (+) and Negative (-) indications

System Owner ank you for purchasing the A200 Infrared Thermometer. Please read this instruction manual first, so you can use this thermometer safely and correctly. Please keep this instruction manual for future reference. This innovative medical device uses advanced infrared (IR) technology to measure temperature instantly and accurately on the forehead

IMPORTANT SAFETY

INSTRUCTIONS READ BEFORE USE he following basic safety precautions should always

- 1.Close supervision is necessary when the mometer is used by, on, or near children, handicapped persons or invalids. 2.Use the thermometer only for the intended use escribed in this manual 3.Do not use the thermometer if it is not working properly, or if it has suffered any damage.
- KEEP THESE INSTRUCTIONS AT A SAFE PLACE CONTENTS

BEFORE YOU BEGIN

Cautions and Warnings

Restrictions of Use

How does it work

Meter Overview

Display Screer

Display Mode

Highlighted Features

Select the Temperature Unit

Turn ON/OFF the Led Light

PERFORM THE TEST

btain an accurate result.

DETAILED INFORMATION

Using the Device

DETAILED INFORMATION

About Normal Body Temperature & Fever

3. Close the battery cover as the

arrow direction accordingly.

1. Although the thermometer works when " - " appear

ing, we still recommend that you change the batteries to

2. Remove the batteries if stored for a long period of time

The batteries should be kept away out of children's

If they are swallowed, promptly see a doctor for help,

About Normal Body Temperature & Fever

The temperature in the forehead and temple area differ-

from the internal temperature, which is taken orally or

blood vessels and cools the skin, can occur during the early

stages of a fever. In this case, the temperature measured by

the A200 Infrared thermometer may be unusually low. If the measurement therefore does not match the patient's own

perception or is unusually low, repeat the measurement

internal body temperature using a conventional oral of

rectal thermometer. Body temperature can vary from one

lividual/person to next. It also varies by location on the

body and time of day. Below shows the statistical normal

ranges from different sites. Please keep in mind that

same time, should not be directly compared. Fever

indicates that the body temperature is higher than normal.

when they are ill. These include, but are not limited to

nunization. Some people may not experience fever eve

mpromised immune systems, persons taking antibiotics.

constriction, an effect which constricts the

Replacing the Battery

Intended Lise

- obtaining accurate temperature readings. Please read this nanual thoroughly and carefully before using. Always operate the thermometer in an operating temperature range 10°C to 40°C (50°F to 104°F), and relative humidity15 to 95%
 - Always store the thermometer in a cool and dry place 25°C to 55°C (-13°F to 131°F) and relative humidity 15%
 - The device requires no calibration The device contains no user serviceable parts.

As a Body Measurement Thermometer

As an Object Measurement Thermomete

Recalling the Memory

FAULT INDICATION

SPECIFICATIONS

SYMBOL INFORMATION

DISPOSAL OF DEVICE

BEFORE YOU BEGIN

Cautions and Warnings

REFERENCE OF STANDARDS

Manufacturer's Declaration of the EMC

As with any thermometer, proper technique is crucial to

Clear the Memory

MAINTENANCE

Care & Cleaning

- The user must check that the equipment functions safely and see that it is in proper working condition before being
- inspections by other persons.

 No modification of this equipment is allowed.
- The device is not suitable for use in the presence of mmable anesthetic mixtures with air or with oxygen or nitrous oxide.

teroids or antipyretics (aspirin, ibuprofen, acetaminophen) or persons with certain chronic

nesses. Please consult your physician when you feel ill even if you do not have fever. Table*1 Normal Temperature Range of various body sites 0.6°C (1°F) or more above or below 37°C (98.6°F) 0.3°C to 0.6°C (0.5°F to 1°F) higher than oral temperature

Axillary (armpit) 0.3°C to 0.6°C (0.5°F to 1°F) lower than oral temperature

PERFORM THE TEST

As a Bo	dy Me	asurement Thermometer
P	}	Press "ON/OFF" Button to turn on the thermometer first.

Push the Mode switch to select Body mode. The temperature unit flashes The device sounds one short be when it is turned on and the temperature unit flashes to confi the readiness to perform the

Move the probe close to the forehead and take measurements
Make sure the probe is flat and ment with a distance within 3 cm.

Manufacturer will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to How does it work SERVICE PERSONNEL in parts repair.

 Do not clean or maintenance the device is in use. Avoid direct sunlight. Avoid dropping the thermometer, if it happens and you temperature value. think the thermometer may be damaged, please contact

· Do not touch the lens. Do not disassemble the thermometer

 Basic safety precautions should always be observed. especially when the thermometer is used on or near saving cost of replacement children and disabled persons.

This thermometer is not intended to substitute for a consultation with your physician. This thermometer and the subject must remain in a start to 25 previous results.

• Easy to read LCD with green backlight in a dark to 25 previous results. stable environment for at least 30 minutes before

measuring the temperature.

• When the measured temperature falls within the fever temperature range of ≥37.8°C (100.04°F) and <42.9°C (green). (109.22°F), as indicated by the red LED on display, please Meter Overview consult with your physician immediately.

Restrictions of Use This thermometer is clinically proven to produce accurate

temperature measurements. However, please be advised that the accuracy cannot be ensured when the thermometer is not clean. Check that the probe is clean

A200 Infrared Thermometer is intended for the

temperature from forehead measurement at home, clinics A control measurement using a conventional thermome ter is recommended in the following cases:

.If the reading is surprisingly low. 2. For new-born infants up to 100 days old. 3. For children under three years of age who have weakened immune system or who react unusually in the

leave it idle for 30 seconds, the unit will switch off

display will show with LO symbol. • If the reading is ≥37.8°C (100.04°F) and < 42.9°C

(109.22°F), the display will show together with red LED

The thermometer will automatically turn off if left idle for

automatically.

As an Object Measurement Thermometer Read the result.

1. Infrared Sensor

3. Display Screen

4. Measurement

Memory Button

5. ON/OFF Button

6. Mode Switch

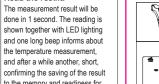
. Battery Cover

2. Led Light

NOTE:

eneray.

Highlighted Features



turn on the thermometer first. shown together with LED lighting nd one long beep informs abou the temperature measurement Push the Mode switch to and after a while another, short select Object mode.
The machine emits two short beep confirming the saving of the resul indicating that the object mode is to the memory and readiness for urned on and the temperature uni the next measurement. Press the "ON/OFF" button to turn off the unit, Or Move the probe close to the object

Make sure the probe is flat and clos to the object, not at an angle.

Perform a measurement with a distance within 3 cm. When ready, press measurement button. As the forehead measurement temperature is likely to be affected by sweat, oil and the surroundings, the eading shall be taken as a reference only. Read the result If the probe is placed at an angle close to the measurement, the reading will be affected by surrounding temperature. Babies' skin reacts very quickly to the ambient temperature. Therefore, do not take their

temperature with the A200 Infrared Forehead thermometer during or after breastfeeding, because the skin temperature may then be lower than the internal ody temperature.

If the measured temperature is < 32°C (89.6°F), the

Read the result.

The measurement result will be done in 1 second. The reading is shown together with LED lighting and one long beep informs about the temperature measurement, and after a while another, short, confirming the saving of the result to the memory and readiness for the next measurement. Press the "ON/OFF" button to turn off the unit. Or leave it idle for 30 seconds, the unit will switch off

Display Screen

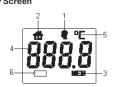
the surface of the skin over the vessel and its surrounding

Measurement that does not require probe cover, thereby

Memory function allows you to recall previous results up

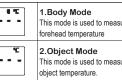
∞/

Automatically power off if left idle for 30 seconds.



3. Memory indication 4. Temperature reading 5. Temperature unit

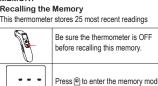
Display Mode Two modes can be selected.

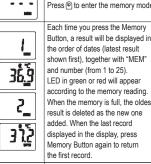


Select the Temperature Unit his meter provides two measurement units used for ndicating the body/object temperature. °C or °F, for

your preferred sele	ection.
	Be sure the thermometer is OFF before selecting the temperature unit.
°C	Long-press the Measurement Button for 5 seconds until the signal — °C or °F displayed on the LCD panel as figure shown. Re-press the Measurement Button to select °C or °F unit。

Press "ON/OFF" Button to

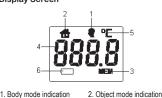






Press ON/OFF Button to exit the memory or keep the meter in idle for 10 seconds to switch off

Clear the mer	nory
This thermometer	r stores 25 most recent readings
No.	Be sure the thermometer is OFF before recalling this memory.
	Press® to enter the memory mode.

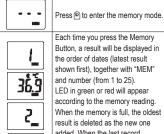


MAINTENANCE

• •	1.Body Mode This mode is used to measure the forehead temperature
"	2.Object Mode This mode is used to measure the object temperature.

Be sure the thermometer is OFF before selecting the temperature unit.
or 1 " 11 " 15 "
C Long-press the Measurement Button for 5 seconds until the signal °C or °F displayed on the LCD panel as figure shown. Re-press the Measurement Button to select °C or °F unit

MEMORY





Exit the memory.

Clear the mer	nory
This thermometer	stores 25 most recent readings
The state of the s	Be sure the thermometer is OFF before recalling this memory.
	Press® to enter the memory mode.
	11

FAULT DESCRIPTION | CORRECTIVE Long-press the ON/OFF Button for MEASURE 3 seconds, release the button after SYMBOL the signal -- dEL displayed on the LCD panel as figure shown. en long-press the ON/OFF Button O-temperature < 32 °C (89.6 °F). for 3 seconds, release the button after the signal -- Clr displayed on the LCD panel as figure shown. All the memories would be deleted after that. · The probe is not waterproof. Please wipe with a clear perature range or is

separation distance

applicable tothe frequency

80 MHz to 800 MHz

800MHz to 2.5 GH

according to the transmitt manufacturer and d is the

distance in metres (m).
b Field strengths from fixed

frequency range.

RF transmitters, as determing ed by an electromagnetic site survey, a should be less than the compliance level ineach

b Interference may occur in

the vicinity of equipment marked with the following symbol:

Care & Cleaning and dry cotton sv

dE<u>L</u>

The body of the thermometer is not water-resistant.	displayed	changing too f		mir
Never put the thermometer under a running tap or				
submerge it into water. Use a soft and dry cloth to clean it. Do not use abrasive cleaners.	SYMBOLI	INFORMATIO	ON	
Store the thermometer in a cool and dry location. Free	SYMBOL	REFERENT	SYMBOL	
from dust and away from direct sunlight. FAULT INDICATION	SN	Serial number	★	T _i
FAULT OD FAULT DECODIDION CORRECTIVE		Caution! Read	4,5%	Т

FAULT OR FAULT DESCRIPTION CORRECTIVE

	SYMBOL		WEASURE
	No display On he LCD panel	The battery has run out.Incorrect battery polarity.	Replace the battery. Please note: The (+) side of the battery must face upwards.
n (d	Measurement not possible or an abnormal value is displayed)	The thermometer is not ready.	Wait until the °C symbol is displayed
t	An abnormal emperature value is displayed.	The probe tip is dirty or damaged. Did you hear the beep after pressing the ON button	Clean the probe tip or get it repaired. Wait until you hear the beep before

Electro- static discharge (ESD)	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.	immunity LIFE-SUF Guidance electrom	and manuf –for EQUIP PPORTING and manuf agnetic imm	a
61000-4-2 Electro- static transient /	±2 kV for power supply lines	N/A	Mains power quality should be that of a typical commercial	electrom or the us	red Thermor agnetic envir er of the Infr in such an e	ro
burst IEC 61000-4-4	±1 kV for input/ output		or hospital environment.	y test	IEC 60601 test level	
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	N/A	Mains power quality should be that of a typical commercial or hospital environment.	Conduct ed RF IEC 61000- 4-6	150 kHz to 80 MHz 6Vrms in ISM banda	
Voltage dips, short inter- ruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cycle g) At 0°, 45°, 90°, 135°, 180°, 225°, 270°and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles at 0° 0 % UT; 250/300 cycle	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Infrared Thermometer requires continued operation during power mains interruptions, it is recommended that the Infrared Thermometer be powered from an uninterruptible power supply or a battery.	Radiate d RF IEC 61000-4 -3	between 150 kHz to 80 MHz 80 MHz to 2.7GHz	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels character- istic of a typical location in a typical commercial or hospital environment.			
61000-4-8	the a. c. mair	ns voltage	prior to application of			

The battery has run out. Replace the battery

WIDOL IN OKWATION					
/MBOL	REFERENT	SYMBOL	REFERENT		
SN	Serial number	†	Type BF applied part		
<u>`</u>	Caution! Read the instruction manual.	†	Keep dry		
3	For use Follow instructions	LOT 2020-03	Batch code		
•••	Manufacturer	2020.03	Date of manufacture		

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range ance and manufacturer's declaration - electromagnetic nity -for EQUIPMENT and SYSTEM that are not tructures, objects and people. romagnetic immunity
Infrared Thermometer is intended for use in the a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast can not be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Infrared Thermometer is used exceeds the applicable RF compliance level above, the Infrared Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Infrared Thermometer. omagnetic environment specified below. The customer user of the Infrared Thermometer should assure that nunit IEC 60601 Compliance test level level Electromagnetic environment - guidance luct 3 Vrms N/A Portable and mobile RF should be used no closer to any part of the Infrared Thermometer, including Over the frequency range 150 kHz to 80 MHz, field strengths cables, than the ould be less than 3V/m.

SPECIFICATIONS

A200

ent 32.0~42.9 C (89.6 T ~109.22 T)

+0.2°C (+0.4°E) from36.0°C (96.8°

to39.0°C (102.2°F) ±0.3°C (±0.5°F) from 32.0°C (89.6°

Object: 0°C to 99.9°C

(32°F to 211.8°F)

to 35.9°C (96.6°F)

to 42.9°C (109.22°F)

than 37 8°C(100 04°F)

Measurement finished

37.8°C(100.04°F)

Battery 2pcs 1.5V AAA Alkaline Battery
Size 168 x 54 x 44 mm

Air pressure 86Kpa-106Kpa

environment (-13°F to 131°F)

Storage

Weight 75g

a short beep.

And from 39.1°C (102.4°F)

Green light for temperature lower

Power on and ready for working:

1 long beep lower than 37.8°C (100.04°F)

25 groups 10°C to 40 °C (50 °F to 104 °F),

Temperature: -25°C to 55°C

Storage humidity: 15% to 95% RH

6 short beep equal or higher than

0.1°C / 0.1°F

Recommended separation distances between portable and RF communications equipment and the EQUIPMENT or YSTEM -for EQUIPMENT and SYSTEMS that are not

ecommended separation distances between portable and obile RF communications equipment and the Infrared Thermometer
The Infrared Thermometer is intended for use in an electroagnetic environment in which radiated RF disturbances are introlled. The customer or the user of the Infrared Thermome an help prevent electromagnetic interference by maintaining a mum distance between portable and mobile RF commu ations equipment (transmitters) and the Infrared Thermometer mmended below, according to the maximum output power of

WARRANTY

onditional upon normal household use. e intended service life of the product is 24 months.

During the warranty period if this product is found to be

arranty service.

This warranty is valid only if the Warranty Certificate and

erviced by unauthorized person. This warranty does not

nplied or expressed, including the warranties o erchantability of fitness for a particular purpose with respect to the use of this product. Manufacturer shall not e liable for any direct, consequential or incidental lamages arising out of the use or inability to use product.

or transmitters rated at a maximum output power not listed be estimated using the equation applicable to the frequency of the nsmitter in watts (W) according to the transmitter manufacture NOTE 1 At 80 MHz and 800 MHz, the separation distance for the nigher frequency range applies

DISPOSAL OF DEVICE

Adhere to the applicable regulations

when disposing of the device.
This product must not be disposed

REFERENCE OF STANDARDS

Device Standards:

for infrared thermometers

ASTM F1965-98:2009

IEC 60601-1-2:2014 IEC 60601-1-6:2010

Classification:

EMC: type B class I

ISO 80601-2-56: 2009

All users are obliged to hand in all electrical or electroni

devices, regardless of whether or not they contain toxic

substances, at a municipal or commercial collection point

so that they can be disposed of in an environmentall

Please remove the batteries before disposing of the

Do not dispose of old batteries with your household

waste, but at a battery collection station at a recycling site

Device Corresponds to the requirements of the standard

Anti-electric Shock Type: Internally powered equipment

Device fulfills the stipulations of the standard IEC

ulations of ELLDirective 93/42/EEC for Medical

Applied part: Type BF
Mode of operation: Continuous Operation

Electromagnetic Compatibility

vices Class IIa have been fulfilled.

* Technical alterations reserved!

Software identify no.: A200 V1.1.0

of together with domestic waste.

acceptable manner.

or in a shop.

NOTE 2 These guidelines may not apply in all situations. ection from structures, objects and people.

■ Shenzhen Aeon Technology Co., Ltd. RM6H02, Block 27-29 Tianxia IC Industrial Park, Majjalong No.133 of Yiyuan road, Nantou Street Nanshan District, Shenzhen, China.

This thermometer is guaranteed for 18 months from the date of purchase against any manufacturing defect,

This product to be free of defects in workmanship and erials for a period on 18 months from the date of

ective, you may bring it together with the purchase receipt and Warranty Certificate on a carry-in basis to facturer's office during normal business hours fo Ve will then repair or replace defective parts or exchange

e whole product as we select, at no charge to the original owner. After such repair, replacement of schange, the product will be warranted from the date of

Varranty Registration Card are duly complete with date of Varranty Registration Card is sent to local distributor office not later than 14 days from the date of purchase This warranty is void if this product has been repaired or

or defects caused by misuse, abuse, accident, ampering, poor maintenance, fire or any other acts vond human control. Except as stated in the above paragraphs, A200 nfrared Thermometer disclaims all other warranties.

> nity -for all EQUIPMENT and SYSTEMS uidance and manufacturer's declaration -The Infrared Thermometer is intended for use in the

Manufacturer's Declaration of the EMC

electromagnetic emission

CISPR 11

dance and manufacturer's declaration

ons Comp- Electromagnetic environment

The Infrared Thermometeruses R

very low and are not likely to cause any interference in nearby electro-

energy only for its internal function.

Therefore, its RF emissions are

The Infrared Thermometer is

uitable for use in all establis

nd those directly connected to the

public low-voltage power supply

including domestic establishments

Immunity IEC 60601 Compliantest lest level ce level environment - gu

20

EC REP Shanghai International Holding Corp. GmbH (Europe Eiffestrasse 80, 20537 Hamburg, Germany

61000-3-3 idance and manufacturer's declaration - electromagnetic