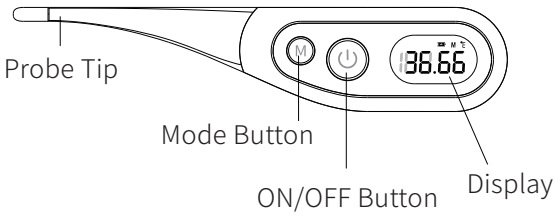
DIGITAL THERMOMETER

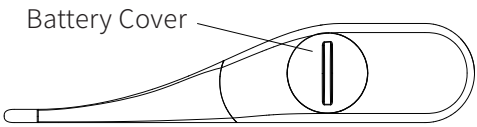
Model：AOJ-25A

INSTRUCTION MANUAL

Thank you for purchasing this Digital Thermometer. Please carefully read this instruction manual in any case before using.

Product Structure





Display screen	
36.66	Temperature value
	Battery symbol
M	Memory mode
℃	Temperature unit

Package Include

1 x Digital Thermometer (battery included)
1 x Instruction Manual

Important Safety Notes

To assure the correct use of the product basic safety, measures should always be followed including the precautions listed below.
The patient is an intended operator, and all the functions can be safely used.

⚠ WARNING

- A high or prolonged fever requires medical attention, especially for children. Please contact your doctor.
- Carefully read and follow the enclosed instructions to ensure accurate temperature readings.
- Please keep still during measurement.
- This thermometer is used for taking temperatures through oral, rectal or underarm. Do not attempt to take temperatures at other sites, such as in the ear, as it may result in false readings and may lead to injury.
- Store the thermometer out of the reach of children. Do not allow children to take their temperatures unattended. Children may injure themselves when attempting to take temperatures without supervision.
- Do not leave the battery, battery cover or probe cover where children can reach them. Children may swallow them. If a child accidentally swallows the battery, battery cover or probe cover, please contact a doctor immediately.
- Do not attempt measurements when the thermometer is wet as inaccurate readings may result.
- 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.
- When ambient temperature is 40, The time from minimum storage temperature to use is at least 1 hour; The time from maximum storage temperature is at least 2 hour.

⚠ 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 force the thermometer into the rectum. Stop insertion and abort the measurement when pain is present. Failure to do so may lead to injury.
- Do not attempt rectal measurements on persons with rectal disorders. Doing so may aggravate or worsen the disorder.
- 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).
- Failure to use a probe cover may lead to bacteria and viral infection.

⚠ GENERAL SAFETY PRECAUTIONS

- The ME EQUIPMENT or ME SYSTEM 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 30 cm (12 inches) to any part of the this device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Symbol Definition

	Comply with local regulations		Consult the instructions for use
	Manufacturer		Production Date
	Type BF Applied Part		This way up
	keep away from sunlight	CE 0123	CE marking
	Fragile, handle with care	IP22	Ingress Protection Rating
	Keep dry		Indicates the entity importing the medical device intothe locale
MD	Indicates the item is a medical device		Warning information, refer to the attached document
EC REP	Authorized Representative In The European Community		

Intended use

The Digital Thermometer is designed as reusable battery-operated electronic device, and intended for the measurement of oral, armpit and rectal temperature for people of all ages.

Contraindication

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

How to Use

1. Press the measure button to turn on the thermometer (with a short beep). Three color backlight will be displayed, and 88.88 displays for 1 second, and then shows the last temperature value for about 3 seconds (it will not be displayed if it' s for the first time use), and then " ---- " displays. Now you can start the measure.
2. Place the thermometer in an appropriate position, oral, underarm or rectal.
3. The measurement takes about 10 seconds, after five times beeps, you can remove the thermometer from the site, and take the reading.

NOTES:

1) T indicates a temperature reading:
32°C≤T≤37.3°C(89.6°F≤T≤99.14°F):There will be 5 beeps and displayed in green.
37.3°C<T≤38.7°C(99.14°F<T≤101.66°F):There will be 5 beeps and displayed in orange, which is a warning that you may have a low fever.
38.7°C<T≤42.9°C(101.66<T≤109.22°F):There will be 5 beeps and displayed in red, which is a warning that you may have a high fever.

NOTES:

- To clean the probe before and after using the thermometer to ensure an accurate reading and avoid cross contamination approximately.
- If the temperature is lower than 32°C, it will be displayed in (----) .
- If the temperature is higher than 42.9°C, it will be displayed in (Hi) .

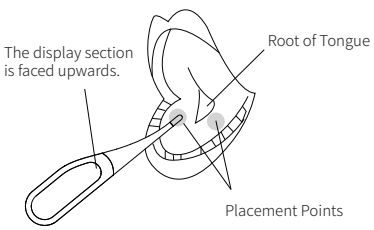
Correct Measurement

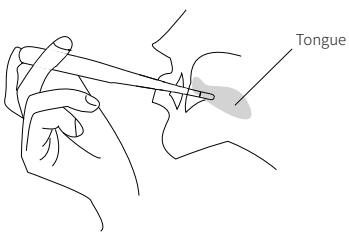
Measurement accuracy cannot be assured when the method used to measure the temperature is incorrect.

ORAL USE:

The mouth should remain closed till hearing the beeps before attempting a reading.

- Place the thermometer in the mouth under the tongue so that it rests to the left or right of the root of the tongue.
- Use downward tongue pressure to hold the thermometer in place.
- Hold the thermometer to keep it from sliding around in the mouth.





NOTE:

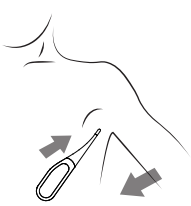
TheDo not drink hot or cold fluids, exercise, and smoke or perform other activities prior to a reading. These activities will raise or lower temperature readings when compared to your normal, average temperature.

RECTAL USE:

- Commonly used for young children when it is difficult to take an oral or underarm temperature.
- Lubricate with a water-soluble gel. Do not use petroleum jelly.
- Gently insert the probe tip no more than 1.3cm into the rectum. Do not force the tip into the rectum if resistance is encountered.
- Disinfect the thermometer after use.

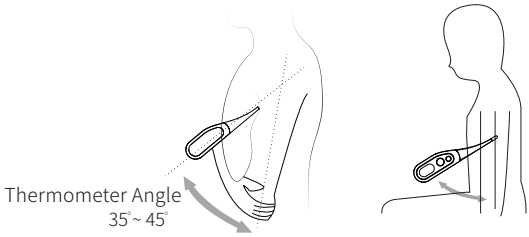
UNDERARM (AXILLARY) USE:

- Place the probe tip in the center of the armpit.



Turn the display so that it faces inwards.

• Lock the probe tip under the arm, using the arm to slightly apply pressure inwards.



The angle should be 35-45 degrees in relation to the arm.

* In the case of infants and very young children, gently hold the arm to prevent movement.

Body temperature can vary from 97.0°Fto 100°Fand still be considered normal. The medically accepted ‘normal’ body temperature is 98.6°F. Body temperature is commonly lower in the upon waking than at any point during the rest of individual’ s waking hours.
Temperature readings will vary based on the body location point of the reading. Oral temperature readings between 97°F(36.1°C) are considerred normal. A rectal temperature reading is generally 1°F(0.5°C) higher; while an underarm, or axillary, temperature will be 1°F(0.5°C) lower.
The common normal temperature and fever temperature in different locations of the human body are shown in the following table.

Method	Normal Temperature	Fever Range
Rectal	36.3°C- 38.0°C(97.3°F- 100.4°F)	＞38.0°C(100.4°F)
Oral	36.1°C- 37.6°C(97.0°F- 99.6°F)	＞37.6°C(99.6°F)
Underarm	35.2°C- 37.0°C(95.4°F- 98.6°F)	＞37.0°C(98.6°F)

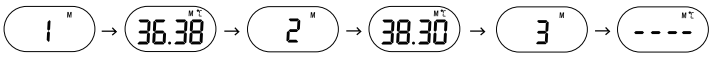
NOTE:
A fever is defined as body temperature that is elevated above the normal for that person. It is important to determine what is normal for an individual before determining if a fever is present. Tracking an individual’ s temperature on a consistent basis, at the same body site and at the same time every day when the person is well or healthy will help determine an individual’ s normal temperature.

°C /°F Switchable

When the thermometer is turned on with a display of "- - - -", press and hold the (M) Button for 1 second to switch the temperature unit.

Memory Recall

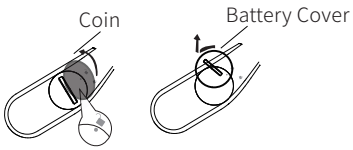
When the thermometer is turned off, press the (M) button to check the previous data one by one.



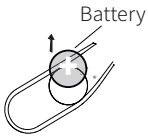
Battery Replacement

When the symbol"▭"flashes, the battery needs to be replaced.

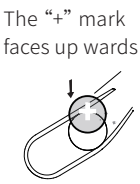
1. Use a coin to take off the battery cover.



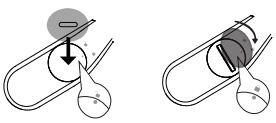
2. Remove the battery.



3. Insert the new battery with the “+” pole facing up as shown in the diagram.



4. Use a coin to put the battery cover back.



Troubleshooting

Indicator	Problem	Solution
----	If it keeps showing "- - - -", it means the probe tip is not being put in a good location, so the measured value is less than 32°C (89.6°F).	Check to see that the thermometer is being placed at the location as described in the "correct measurement" section.
Hi °F	The measured temperature is higher than 42.90°C (109.22°F).	
Wide differences in readings	• The temperature sensing part of the thermometer is being placed at a different location for each reading. • The thermometer is moved while the temperature is being taken. • The mouth is kept open while the measurement is in progress.	
Nothing appears in the display section when the power switch is pressed.	The polarity ⊕ ⊖ is reversed. The battery is depleted.	Take out the battery and replace using the correct polarity. Check to see if ▭ appears in the display section. Replace with a new battery.
▭	Battery icon is flashing, it means the battery is low	Suggest to replace the battery.

Care and Maintenance

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.
- Wipe the thermometer with a soft clean cloth and sterilize the probe with ethyl alcohol.
- When using alcohol to clean the thermometer, make sure that it does not come into contact with the indicator section.
- 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.
- 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 soak the sensing section in alcohol 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 soak the display in water.

Store the thermometer with the plastic incert in the box.

- 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, dusty locations, or environments where there are high salt concentrations in the air.
- Locations where the unit will be subjected to leaning, shock or vibration.
- Pharmaceutical storage areas or locations where corrosive gases are present.

- 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.
- The effects of lint, dust, light (including sunlight),etc.
- The effects of degraded sensors, that can degrade performance or cause other problems.
- IP22：the fifirst number 2:protected against solid foreign objects of 12,5 mm and greater.

The second number: protected against vertically falling water drops when enclosure titled up to 15, Vertically falling drops shall have no harmful effects when the enclosure is tittle at any angle up to 15 on either side of the vertical.

- Maintenance should be done by the operator as suggested
- No maintenance or servicing the thermometer in use.

Cleaning and Disinfection

Wipe the thermometer with a soft clean cloth. For stubborn stains, wipe the thermometer with a cloth that has been dampened with water or a neutral detergent and wipe thoroughly.Finish by wiping with a soft dry cloth.
For disinfection, 75% Ethanol or Isopropanol alcohol can be used.

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 attempt to disinfect the sensing section(tip) of the thermometer by immersing in alcohol or in hot water(water over 122°F/50°C).
- Do not use ultrasound washing to clean the thermometer.

Technical Specifications

Display	Segment LCD, 3-color LED backlight (green, orange, red)
Measurement Range	32.00°C~42.90°C (89.60°F~109.22°F)
Measurement Sites	Oral，Rectal，Underarm
Measurement Accuracy	±0.1°C/32.18°F
Display resolution	0.01°C
Temperature Units	°C/°F, Switchable
Battery (Included)	d.c. 3V, CR2032
Service Life	3 years (device only, not included battery)
Automatic Shutdown	Normal Mode: 30 seconds
Memory	Store up to 10 temperature readings
Working Conditions	Temperature: +10 to +40°C (+50 to +104°F) Humidity:30-85%RH Atmospheric pressure：70 KPa~106 KPa
Storage and Transport Conditions	Temperature: -20 to +55°C (–4 to +131°F) 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), 142x30x14mm
Measurement Time	10 s
Battery life	Approx 200 hours , 2000 operation times

Warranty

Please use the battery in accordance with the parameter requirements in the manual. Using other parameters will cause the product to fail to operate normally.
This instrument is covered by a 12 months guarantee from the date of purchase, batteries and accessories are not included. The guarantee is valid only on presentation of the guarantee card completed by the dealer confifirming date of purchase or the receipt.
Opening or altering the instrument invalidates the guarantee. The guarantee does not cover damage, accidents or non-compliance with the instruction manual.
Please contact customer service.
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.

Product Information
Date of purchase:
Store where purchased:
Purchase for:

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 ±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	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	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE UT is the a.c. mians voltage prior to application of the test level.		

Electromagnetic Immunity

Guidance and manufacturer's declaration - Electromagnetic Immunity								
	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test Level (V/m)	Compliance level (V/m)
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	385	380–390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27	27
	400	430–470	GMRS 460 FRS 460	FM± 5 kHz deviation1 kHz sine	2	0.3	28	28
	710	704 – 787	LTE Band 13,17	Pulse modulation 217 Hz	0.2	0.3	9	9
	745							
	780							
	810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28	28
	870							
	930							
	810	1700–1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3,4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28	28
	870							
	930							
	2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450,	Pulse modulation 217 Hz	2	0.3	28	28
			LTE Band 7					
	810	5100-5800	WLAN 802.11a/n	Pulse modulation 217 Hz	0.2	0.3	9	9
	870							
	930							

FCC Caution:
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.
FCC RF Radiation Exposure Statement:
1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.
3. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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.

CE 0123 RoHS MD

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