

Arm Type Blood Pressure Monitor User Manual



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ENSMT33&T35202509261ZGZ/26012315.045/13.14.001.0256

Before using this product, please read the user's manual carefully and use it accordingly. Please keep the user's manual property for reference at any time. (The pictures in this manual are for reference only)

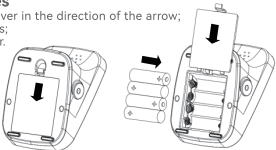
2.7 Functional Description

- 1) Measurement: Oscillographic measurement ;
- 2) The results showed that: high pressure / low pressure / pulse ;
- 3) Unit Conversion: blood pressure units kPa / mmHg conversion (the default boot unit is mmHg).
- 4) Memory Group: Two sets of memory, each 120 measurements results of memory ;
- 5) Clock function: Set of year, month, day, hour, minute ;
- 6) Low power testing: any working-state detecting low power, LCD displays " " symbol prompts low power ;
- 7) Blood pressure classification indicator: blood pressure classification indicates blood pressure health, see Appendix Table II ;
- 8) Error: See Appendix Table III ;
- 9) Over pressure protection function: pressure over 295mmHg (20ms) is automatically and quickly exhaust ;
- 10) Auto power off function: No action for 2 minutes then automatic shutdown .
- 11) Communication function: the blood pressure monitor transmits the measurement data to the receiving and end through Bluetooth connection.

3. Load the battery / adapter use

3.1 Use of batteries

- 1) Remove the battery cover in the direction of the arrow;
- 2) Put in four AA batteries;
- 3) Close the battery cover.



Note

- Icon " " indicates the battery is about to run out. Please replace the four new batteries (same species).
- Please turn off the machine when the power battery replacement.
- Note: battery life varies depending on usage and settings.
- After replacing the battery, you may need to reset the time. For details, refer to 4.2 "Setting the Time" section.
- Methods of disposal after use batteries should be handled according to local regulations on environmental protection.
- Note: battery life varies depending on usage and settings.
- Battery life: With the new battery, the device can complete at least 180 times of measurement.

3.2 Adapter for use

- 1) Connect the blood pressure monitor with adapter;
- 2) Keep the adapter plug into the right side of the arm type Blood Pressure Monitor AC power adapter interface.
- 3) Connect the adapter is plugged into an AC outlet can match.

Note

- When off the power, cut off the power socket and adapter, then cut off the adapter and arm type Blood Pressure Monitor. Be sure to use a dedicated adapter.
- When the power supply and battery use at the same time, does not consume battery power;
- When switching adapter and battery, please in the shutdown state, otherwise the instrument will shut down because of power outages;
- Only use the adapter, unplug it from the socket the set time will disappear, in order to maintain the correct display time, please use batteries at the same time.

Preface

Dear user:

Thank you for choosing our arm type blood pressure monitor. Before using this arm type blood pressure monitor, please read the user's manual carefully and use it accordingly. Please keep the user's manual properly for reference at any time. The arm type blood pressure monitor can be used in hospitals, families, schools and medical centers. It is suitable for adult, not for neonate.

Product Brief Introduction:

The full name of this product is arm type blood pressure monitor. It is consisted of the main body and the arm cuff, suitable for human blood pressure and pulse measurement.

The blood pressure monitor adopts the intelligent pressure method, which can measure your blood pressure to a suitable value automatically according to your own blood pressure value. It can effectively reduce the discomfort caused by incorrect pressure, shorten the measurement time, and prolong the service life of the arm cuff at the same time.

The blood pressure monitor has power adapter socket and the adapter is optional, which is easy to use.

This blood pressure monitor has the memory function of 120 groups of measuring data of two people, which can save the data separately. It can display the average reading of the latest 3 groups of measurement results.

This blood pressure monitor has the function of blood pressure classification, which is convenient for you to judge whether your blood pressure is normal or not.

This blood pressure meter can be equipped with communication function, which can be connected to the user's end through Bluetooth to view measurement data. (optional)

This blood pressure monitor has voice broadcast function (optional). During measurement and recall the memory, there will be voice operation tips.

1. Safety Precautions

Warnings and graphic symbols in the user's manual are aimed at enabling users to use the product safely and correctly, so that avoid any damages to users and the others. Specific meanings are as follows:

Symbol Descriptions			
	Type BF applied part		Caution
	Refer to operation manual		Manufacturer
	Prohibition of Disassembly		Batch code
IP21			
First characteristic numeral 2: Against ingress of solid foreign objects: ≥12.5mm diameter			
Second characteristic numeral 1 Against ingress of water with harmful effects: vertically dripping			
	Date of manufacture		This way up
	Model number		Unique Device Identifier
	Serial number		Use-by date
	Medical device		Consult instructions for use
	Keep dry		Caution of electric current
	Keep away from sunlight		Caution of fire

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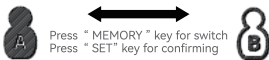
4. Initial Setting (Model-1/Model-2)

This device can automatically memorize 2×120 groups of measured value in memory and calculate the average value of the latest three groups of measuring results. It will store correct user and measuring time if they are set correctly, otherwise, user and measuring time cannot memorized correctly.

Please conduct initial setting before the first measurement if you want to use memory and average value function. Initial setting includes settings of user, time, volume and blood pressure unit.

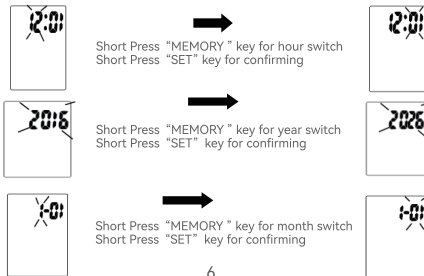
4.1 User Setting

In the shutdown state, Short press SET key , the user symbol or on screen starts flashing up , press the MEMORY key to switch or for choosing user, then press SET key for confirming and switch to year setting mode at the same time, if not to choose the system defaults user .



4.2 Time Setting

We can get known from 4.1, Short press SET key under user mode and it switches to Time setting mode. Time on screen starts flashing up. Short press MEMORY key value increment switches between 0 to 23. When the hour to be set appears, Short press SET key to confirm, the value stands for minute is now in flashing state, it is the time to set minute, press MEMORY key, value increment can switch between 00-59, when minute to be set appears, Short press SET key to confirm, and the value stands for year is now in flashing state, it is the time to set year, the screen displays "2016" and flashes, press MEMORY key, value increment can switch between 2016-2035, when the year to be set appears, short press SET key to confirm, the value stands for date is now in flashing state, it is the time to set date, short press MEMORY key, value increment can switch between 01-31, short press SET key for confirming and switch to "BP Unit" setting mode at the same time.



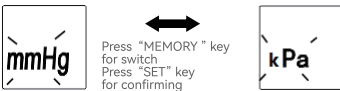
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	Separate collection for electrical and electronic equipment		Not made with natural rubber latex
	Humidity limitation		Temperature limit
	Enforcement: to represent compulsive behavior, namely matters must to be observed when using the product.		
	Prohibition: to stand for prohibited contents, namely matters not allowed to do when using the product		
Caution			
	Pregnancy, arrhythmia, diabetes, poor blood circulation or stroke patients, please use the product under the guidance of a doctor. It is very dangerous for the patients to make self-judgment and self-treatment according to the measurement results. Please follow the guidance of the doctor, self-judgment is likely to deteriorate the patient's condition. There may be a risk, such as arm numbness or pain, that may be caused by over inflation of the gasbag. The application of the CUFF over a wound, as this can cause further injury. For the sake of safety, please keep the product in the place where the child is not easy to touch. The application of the cuff and its pressurization on any limb where intravascular access or therapy, or an arterio-venous (A-V) shunt is present because of temporary interference with blood flow and could result in injury to the patient; The information that pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring the blood pressure monitor on the same limb. The need to check that operation of the blood pressure monitor does not result in prolonged impairment of the circulation of the blood of the patient. Avoid taking measurement on the arm on the side of a mastectomy or lymph node clearance. Excessive length cables and hoses can be caused Strangulation hazard, and should be kept out of reach of children. 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 and/or patient is established.		
	Infants and children who can not express their thoughts are prohibited to use the product, because they will be the cause of the accident or dispute. Do not use it for purposes other than blood pressure measurement. It can be a cause of accident or dispute. Please do not use chemical reagents such as thinner, alcohol, gasoline to clean this product. Do not beat the product heavily or fall from a height. Please be sure to use the special arm cuff of this product, otherwise it can not be accurately measured. Do not use the mobile phone near the machine. There is a risk of making the machine to malfunction.		
	Do not disassemble, repair or reconstruction of the machine and the arm cuff of the arm type blood pressure monitor, otherwise it can not be measured correctly.		
	Do not force a bending of the arm cuff or the air tube. Otherwise, the blood flow will be affected and the patient will be injured. When removing the air tube, please take out the air tube at the front part of it. Don't pressure the product before the arm cuff is twisted around the arm. As the dry battery leakage can damage the product, so please pay attention to the following points: If you don't use the product for a long time (more than 3 months), please take out the battery. After use, replace the battery which is in power shortage with a new one immediately. Do not intermix old and new battery. Install the positive and negative battery correctly. Do not intermix different types of batteries.		

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4.3 BP Unit Setting

We can get known from 4.2, after setting up time, press SET key to confirm and switch to "BP Unit" mode at the same time, the "mmHg" or "kPa" is in a flashing state now, the system defaults mmHg as blood pressure unit if there is no switch. After choosing it, press SET key for confirming and it is shutdown at the same time.



4.4 Sound setting (optional)

Select the appropriate method to set the sound according to the model and configuration of the purchased product.

Method 1:



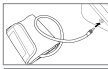
We can see the sound adjustment switch from the side of the product. If you turn the switch to , the sound is off, and if you turn the switch to , the sound is on.

Method 2:

Press SET key to confirm and switch to "SP" mode at the same time, the "ON" or "OFF" is in a flashing state now. Press MEMORY key to choose, when set to "ON", there is a voice prompt when BP monitor is under measurement and viewing memory; when set to "OFF", there is no voice prompt. After choosing it, press SET key for confirming.

5. Usage of NIBP Cuff

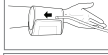
1) Insert the cuff tracheal into the air tubes interface of blood pressure monitor



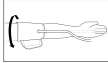
2) Adjust the cuff to tubular until it is suitable to put your arm inside.



3) Arm through the cuff. The cuff air tube should be located the palm front end.



4) The cuff should be wind on the upper arm. ARTERY MARK should be located in the middle of the inboard arm and pointing down to the inside of the arm, the air tube is also located in the inboard and be in a line with middle finger.



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	Do not modify this equipment without authorization of the manufacturer. The blood pressure monitor is not allowed serviced or maintained while in use with the patient.
	Please be sure to use the special AC power supply of this product, otherwise it may cause fire or electric shock. Please be sure to use the appropriate adapter. Use the power socket separately, otherwise it is likely to cause a fire or electric shock.
	Please do not use wet hands to pull the plug on the adapter, otherwise it may cause electric shock or injury.

2. Product Introduction

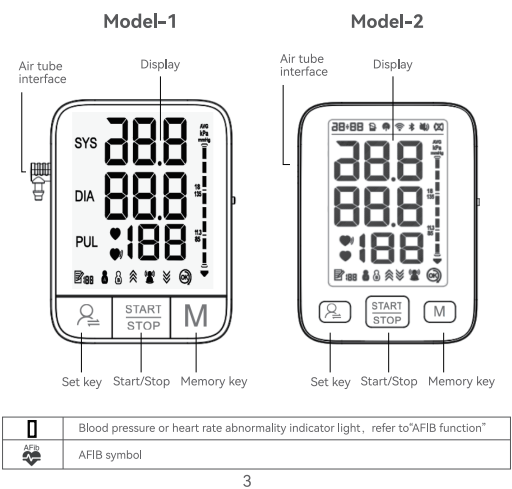
2.1 Intended use

The Arm blood pressure monitor is used for measuring blood pressure and pulse rate in adult patient. The monitor can be used in hospitals, families, schools and medical centers by healthcare personnel or adult.

2.2 Contraindications

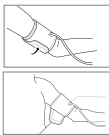
None

2.3 Product Structure



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5) The bottom of the cuff should be located on the elbow in upper arm, the bottom of the cuff should be 2cm-3cm from the elbow.



6) Please close the cuff by buckle. There should be no gap between the arms and the cuff.

6. Measure blood pressure

6.1 The Correct measurement method

The left arm, right arm are all ok to measure. Be bare arms or only wear thin clothes to measure. Please measure at a temperature suitable room.

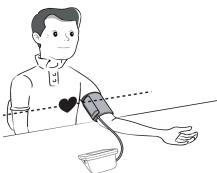
- 1) Do it comfortably and naturally, with your feet flat on the floor, legs uncrossed
- 2) Put your elbows on the table;
- 3) The cuff height should be consistent with the heart;
- 4) The palm shall be upward, Relax the body.

Note

When the body stays still, is not displayed on the screen, but when the body moves, is displayed on the screen.

Attention

- If you wear thick clothes, don't roll up your sleeves, but take off and measure it.
- In order to accurately measure, please pay attention to the correct winding cuff.
- (Refer to "5 Usage of NIBP Cuff")
- Please don't press your arms on the air tube, or you may restrict the flow of air to the cuff.
- Please be the same pose for blood pressure measurement, every day at the same time, with the same arm.
- The location of the cuff will cause changes of measurement results.
- Don't touch the machine, cuff and air tube during measuring.
- You should keep quiet when start measuring, the body should be in a state of relaxation
- Please be quiet for 4-5 minutes before measurement.
- Relax your body, don't let muscle activity
- Don't talk or move when you are measuring.
- Please wait for 2-3 minute if you want to measure again.
- Do not use mobile phones and other mobile devices in the vicinity of the machine.



6.2 Operation steps of blood pressure measurement

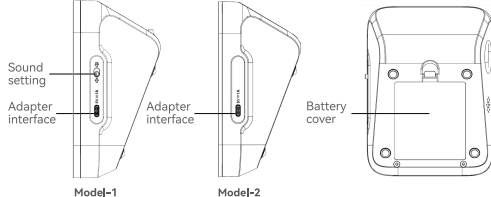
The machine has 2 kinds of BP units, which is mmHg and kPa, please refer to the part for the specific method of setting.

Take the mmHg value as an example in the following explanation.

1) Press the "START / STOP" key, the machine will automatically return to zero, arm cuff with automatic start filling with air, the pump started to inflate the cuff, the machine will display the pressure changes in the cuff. In the process of inflation, arm type blood pressure monitor also detects the pulse, so the whole measurement process, please do not move the arm, keep the stationary state.

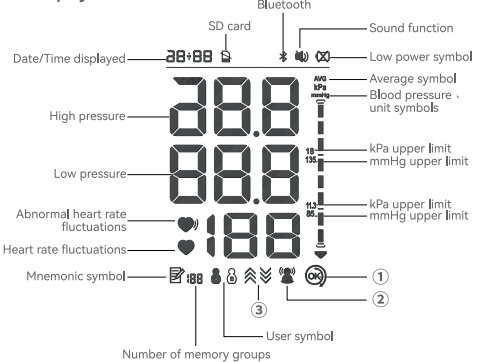
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2.4 Side



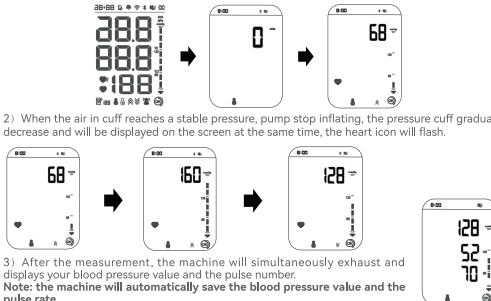
2.5 Rear

2.6 Display Screen



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①	Wearing condition of arm bands: When worn properly, it shows "OK". If it is worn too loosely or too tightly, or if it is not worn at all, it will not display on the screen.
②	During the measurement process, if the body moves, this icon will be displayed on the interface.
③	When the blood pressure rises during the measurement, " " is displayed on the screen. When blood pressure drops, " " is displayed on the screen.



Interrupt measurement: If you need to interrupt the measurement for some reason (for example, you feel uncomfortable), at any time, press the "START / STOP" key, the machine will automatically reduce the arm with air pressure, interrupt measurement.

Important hints:

For the same user, the interval between the two measurements is at least 2-3 minutes. Between the two measurements of waiting is mainly to let the artery restored to the state before the measurement of blood pressure.

In the measurement process, if the body is moving, it will cause the measurement result is not accurate, or measure the failure, and it will display error message. In this case, please repeat the measurement process, and keep quiet until the end of the measurement.

If irregular Heartbeat (HB) brought by common arrhythmias is detected in the procedure of blood pressure measurement, a signal of " " will be displayed. Under this condition, the blood pressure monitor can keep function, but the results may not be accurate. It is suggested that you consult with your physician for accurate assessment.

6.3 Answers to the question during measurement

Anomalies	Cause	Correction
A high (low) anomaly blood pressure measurements	Whether wrap the cuff properly Whether chatting or moved the arm during measurement Whether the sleeves rolled up too tight	Wrap the cuff properly (refer to the part 5) Keep quite and body peaceful then measure again Take the too tight coat off and measure again
No inflation	Whether the cuff leak Whether the plug connected well with the cuff	Change a new cuff Please connect correctly
Cuff leak in a short time	Whether the cuff wrap too loose	Please wrap the cuff correctly
Not working after press the start button		Please reconnecting power and measure again
During measurement suddenly power off	When not use for a long time, the temperature variation may make the battery power exhausted	Change a new battery

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No display after press the start button	Whether the power exhausted Anti-access	Change a new battery Install the battery in proper placement
Other anomalies		Please press the start button and check again or change a new battery, if still can't measure please connect After-sales service department.
APP does not display properly	1.Blood pressure measurement failed 2.Bluetooth connection failed	1.Remeasure 2.Reconnect the device
APP terminal software crashes during operation	1.There are hardware problems with the phone 2.Not the latest version	1.Contact your phone manufacturer 2.Go to the corresponding app store and download the latest version of the APP
APP cannot be connected to the blood pressure monitor	1.The mobile version is not compatible with Android 6.0 or above; or Apple IOS6.0 or above 2.Not the type of sphygmomanometer specified	1.The mobile version is updated to Android 6.0 or above compatible version; or Apple IOS6.0 or above compatible version 2.Use a specified type of sphygmomanometer
The APP cannot be opened normally or crashes when opened	APP is not the latest version	Go to the corresponding app store and download the latest version of the APP

7. Memory function

7.1 Memory data viewing

This blood pressure storing 2x120 set memory value, each measurement it will automatically stored. When it stored 2x120 set memory value, the old value will be covered by the new one. It can show the latest 3 times average value.

⚠ Note

●In order to make a note of measurement correctly, before measurement, please make sure set the right user and time. Under one user, it has stored 120 set data, when you save the 121th set date, the earliest one date will be deleted.

7.1.1 Read memory record

Short press the MEMORY key it will show the latest 3 times average value. It will appear "AVG" in the top-right corner.

⚠ Note

●When the number of memory value less than 3 set, like there are 2 set memory value, the memory button will show this 2 set average value, if there is 1 set memory value, the memory button will show this 1 set average value, that is this 1 set measure value.

7.1.2 Read the result

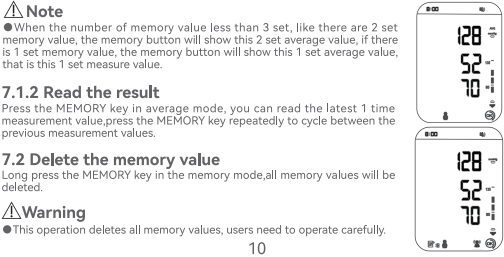
Press the MEMORY key in average mode, you can read the latest 1 time measurement value,press the MEMORY key repeatedly to cycle between the previous measurement values.

7.2 Delete the memory value

Long press the MEMORY key in the memory mode,all memory values will be deleted.

⚠Warning

●This operation deletes all memory values, users need to operate carefully.



710 745 780	704 ~ 787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	9
810 870 930	800 ~ 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	28
1 720 1 845 1 970	1 700-1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3 4, 25; UMTS	Pulse modulation ^{b)} 217 Hz	28
2450	2 400-2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	28
5 240 5 500 5 785	5 100-5 800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	9

If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61 000-4-3

a)For some services, only the uplink frequencies are included.
b)The carrier shall be modulated using a 50 % duty cycle square wave signal.
c)As an alternative to FM modulation, the carrier may be pulse modulated using a 50 % duty cycle square wave signal at 1 8 Hz. While it does not represent actual modulation, it would be worst case.

Table 4 – Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields		
Test frequency	Modulation	IMMUNITY TEST LEVEL (A/m)
30 kHz ^{a)}	CW	8
1 34,2 kHz	Pulse modulation ^{b)} 2,1 kHz	65 ^{c)}
1 3,56 MHz	Pulse modulation ^{b)} 50 kHz	7,5 ^{c)}
a)This test is applicable only to ME EQUIPMENT and ME SYSTEMS intended for use in the HOME HEALTHCARE ENVIRONMENT b)The carrier shall be modulated using a 50 % duty cycle square wave signal. c)r.m.s., before modulation is applied.		

8.Communication function (optional)

8.1 Communication

The product has communication function and can support devices with Bluetooth 4.0 or above. Arm blood pressure monitor transmits the measurement data to the receiving end through Bluetooth connection, and the maximum distance of Bluetooth transmission is not less than 10m (in the environment without obstacles)

When the ✖ on the screen starts to flash, open the APP "YonkerHealth" (the APP can be downloaded and installed in the software store) and connect. Refer to the following:

- 1.Open the device application and add the device in the upper right corner and bind it manually.
- 2.Click search, and when the product model that needs to be bound appears, click Connect.
- 3.After the connection is completed, the measurement process and results are synchronized on the APP

8.2 Bluetooth module parameters

Radio frequency emission band: 2402 ~ 2480MHz

Modulation type:GFSK

Transmitted power: ≤20dbm

Be sure to keep the notes and other correct usage in the user manual, Failure to obey the regulations, the company doesn't take responsibility of the quality.

9.1 Maintenance method

- Using a soft dry cloth towel dean the unit, if it is very filthy you can wet the towel with water or neutral detergent, wring out it and wipe the unit.
- Use a soft, moistened cloth to clean the arm cuff,let the cuff dry completely.

⚠ Note

Please prevent water or other liquid seep into the blood pressure monitor.

⚠ Suggestion

Don't clean the host and cuff with naphtha, thinner or gasoline etc.
Don't wet the cuff or attempt to clean the cuff with water
It is recommended to put disposable tissue under the sleeve to reduce cross contact.

9.2 Storage method

⚠ Advice

Do not place the blood pressure monitor in the following places:

- Easy splashing
- Direct sunlight, high temperatures, humidity, dust, full of corrosive gas places
- Some slant, vibrative, shock place.
- Some place storing chemicals or corrosive gas.

- 1.Enlarge the distance between this device and other device.
- 2.Connect the two devices with different power socket.

Essential performance and basic safety testing should be done every two years. If your device needs to be done, please contact your provider or Yonkang. This device only can be tested by the provider who has be authorized.

Appendix

I.Product Specifications

Name	Arm type Blood Pressure Monitor		
Display	Segment LCD Display		
Prevent into the liquid level	IP21 First characteristic numeral 2: Against ingress of solid foreign objects:≥12.5mm diameter Second characteristic numeral 1:Against ingress of water with harmful effects: vertically dripping		
Measurement	Upper Arm		
Measurement Range	NIBP(Non Invasive Blood Pressure)	Static pressure measurement range: 0-280 mmHg Dynamic pressure measuring range: systolic blood pressure: 40-250mmHg diastolic blood pressure: 30-200mmHg	
	PR(Pulse rate)	40-199 bpm	
Accuracy	NIBP(Non Invasive Blood Pressure)	±3mm Hg(±0.4kPa)	
	PR(Pulse rate)	±5%	
Power	4 AA alkaline batteries or adapter (INPUT AC100-240V 50/60Hz OUTPUT DC5.0V)		
Electrical parameters	Working Voltage	5V	
	Low electrical parameters	4.4V±0.2V showing low power	
	Auto power-off	Power off automatically within 2 minutes without any operation	
Dimension	Approximately 143*106*67mm		

9.3 Calibration and Service

●The accuracy of this blood pressure monitor has been carefully tested and is designed for a long service life.

●It is recommended to calibrate the arm type blood pressure monitor once a year, by the manufacturer.

⚠ Notes

- If the performance is inconsistent with the description or changes, stop using immediately and contact the manufacturer.
- Do not use this product if you are allergic to ABS and other materials.
- Direct use in the environment of electromagnetic interference shall be avoided to prevent temporary influence on its accuracy.
- The product is suitable for professional use or domestic use.
- The correct use method is the key to the accuracy of measurement. Operators should have certain knowledge of blood pressure. The operating environment shall be in accordance with the instructions.
- Too frequent measurements can cause injury to the patient due to blood flow interference.
- The effects of degraded sensors and electrodes, or loosened electrodes, that can degrade performance or cause other problems.
- Please place the blood pressure monitor in a place where children, pets, etc can not be touched, so as to prevent falling, biting and affecting the product performance.
- Do not use beyond the service life of the product, otherwise the accuracy of the instrument will be affected.
- The blood pressure monitor cannot be serviced and maintained during use.
- The blood pressure monitor should be avoided in places with poor ventilation and high dust and lint content.Avoid direct sunlight and strong light sources.
- If you need maintenance, please contact the manufacturer.

9.4 Waste disposal

- 1.Please follow local laws to dispose of waste scrap.
- 2.Follow local ordinances and recycling instructions regarding to disposal or recycling of the device and device components, including used batteries and packaging box.

10.Manufacturer's Declaration of the EUT

Statement:

- The Arm type Blood Pressure Monitor or user should use the product in the electromagnetic environment specified in the following table, otherwise it may cause abnormal operation of the product.
- The internal structure of the Arm type Blood Pressure Monitor adds magnetic rings, magnetic beads, and conductive cloth to spray conductive paint to avoid electromagnetic interference, so as to prevent adverse events to patients and operators due to electromagnetic interference.
- Arm type Blood Pressure Monitor is a table-top equipment, it suitable for medical unit and home use.
- Warning: Use of this Arm type Blood Pressure Monitor adjacent to or stacked with other equipment should be avoided because it could result in improper observed to verify that they are operating normally.

Weight	Approximately 300g		
Working Condition	Temperature	+5℃ ~ 40 ℃	If stored or used outside the specified temperature and humidity range, blood pressure will not work properly.
	Humidity	15%RH ~ 85%RH	
	Atmospheric	86kPa ~ 105kPa	
Transporting and storing Condition	Temperature	-20℃~+55℃	Avoiding strong impact, direct impact, exposure or rain when Transporting. Packed blood pressure monitor should be stored in the condition met the humidity and atmospheric requirements,and non-corrosive gases and ventilated room.
	Humidity	10%RH ~ 95%RH	
	Atmospheric	50kPa-105kPa	
Security Type	Internally powered(When using an adapter, it belongs to class II, internal power supply), BF type application equipment		
Service life	5 years		
Cuff specification	Dimension: Approximately 150mm×540mm(Cuff: arm circumference 22-42cm) Material: Nylon, polyester, polyvinyl chloride		
Accessories	4 AA alkaline batteries(optional) Adapter(optional) Adapter is part of blood pressure monitor		
The time required for me equipment to warm from the minimum storage temperature between uses until it is ready for Intended purpose	About 30min		
The time required for me equipment to cool from the maximum storage temperature between uses until it is ready for Intended purpose	About 30min		
Applied parts specified	cuff		
Pollution degree	Pollution degree2: Micro-environment with non-conductive pollution, expect occasional conductivity caused by condensation		
Overvoltage category classification	Class II		

●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.
●Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of the Arm type blood pressure monitor, including cables specified by the manufacturer. Otherwise, degradation of the performance of this arm type blood pressure monitor could result.

Guidance and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer's dclaration – electromagnetic emission		
The Arm type Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of Arm type Blood Pressure Monitor should assure that it is used in such an environment.		
NO	Emissions test	Compliance
1	Radiated emissions CISPR 11	Group 1 Class B
2	Conducted emissions CISPR 11	Group 1 Class B
3	Harmonic emissions IEC 61000-3-2	Pass
4	Voltage fluctuations / flicker emissions IEC 61000-3-3	Pass

Guidance and manufacturer's declaration – electromagnetic immunity – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer's declaration – electromagnetic immunity		
The arm type blood pressure monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the arm type blood pressure monitor should assure that it is used in such an environment.		
Immunity test	EN 60601 test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15kV air
Radiated RF EM fields IEC61000-4-3	10 V/m ⁽¹⁾ 80 MHz ~ 2,7 GHz ^{b)} 80 % AM at 1 kHz ^{c)}	10 V/m ⁽¹⁾ 80 MHz ~ 2,7 GHz ^{b)} 80 % AM at 1 kHz ^{c)}
Proximity fields from RF wireless communications equipment IEC61000-4-3	Table 3	Table 3

Use specification	1. Expected medical instructions: The blood pressure monitor is used for measuring blood pressure. 2. Intended Patients: Adults 3. Expected use or interaction with body parts tissue type: Upper Arm 4. Intended users: Healthcare personnel or adult user 5. Application environment: Avoid electromagnetic interference Extreme temperature Avoid pollution and dust Avoid direct sunlight, etc Operating principle: Using the oscillometric method of measurement, the blood pressure monitor uses an air pump to inflate and pressurize the cuff, and use the inflatable cuff to compress the arteries to make the arteries in a state of complete obstruction, and then open the deflation valve to slowly decrease the pressure in the cuff .	
	The RATED range of CUFF pressure	0-300mmHg
	Over the temperature range of 10°C C to 40°C and the relative humidity range of 15% to 85% (non-condensing), the maximum error for the measurement of the CUFF pressure at any point of the NOMINAL measurement range	±3 mmHg
The laboratory reproducibility of the BLOOD PRESSURE DETERMINATION of the AUTOMATED SPHYGMOMANOMETER	When the SUPPLY MAINS to the blood pressure monitor is interrupted	The CUFF shall deflate within 30 s to the values indicated in ±15 mmHg, and any indication of BLOOD PRESSURE shall be cancelled

The blood pressure monitor meets isolation from the supply mains requirements when in use and when off.
adapter as disconnecting device from supply mains, please keep convenient position to operate.

Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	±1kV differential mode
Conducted RF IEC 61000-4-6	3 V 0, 15 MHz -80 MHz 6 V in ISM and amateur radio bands between 0, 15 MHz and 80 MHz 80 % AM at 1 kHz	3 V 0, 15 MHz -80 MHz 6 V in ISM and amateur radio bands between 0, 15 MHz and 80 MHz 80 % AM at 1 kHz
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U _r ; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U _r ; 1 cycle and 70 % U _r ; 25/30 cycles Single phase: at 0° 0 % U _r ; 250/300 cycle	0 % U _r ; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U _r ; 1 cycle and 70 % U _r ; 25/30 cycles Single phase: at 0° 0 % U _r ; 250/300 cycle
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m
Proximity magnetic fields IEC61000-4-39	Table 4	Table 4
NOTE U _r is the a. c. mains voltage prior to application of the test level.		

Table 3 – Test specifications for enclosure port immunity to RF wireless communications equipment

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Immunity TEST LEVEL (V/m)
385	380 ~ 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	27
450	430 ~ 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	28

II. Blood pressure classification instructions

Table 1 Blood pressure classification instructions		
Classification	High pressure	Low pressure
Serious	≥180	≥110
Moderate	160 ~ 179	100 ~ 109
Mild	140 ~ 159	90 ~ 99
Little higher	130 ~ 139	85 ~ 89
Normal	120 ~ 129	80 ~ 84
Most suitable	≤119	≤79

III. LCD Error message and the cause of error correspondence table Table 1 LCD Error message and the cause of error correspondence table

LCD Error message	The cause of error
"E0 1"	Due to the arm or body movement, the high pressure value can not be measured. Please tie the cuff and measure it once
"E0 2"	Due to the arm or body movement, the low pressure value can not be measured. Please tie the cuff and measure it once
"E0 3"	The test result is abnormal, please measure again
"E0 4"	Because the air leakage rate is too fast or the pulse signal is too weak, please check the cuff and measure it again after binding

Services

1. One year free warranty period will be provided after sales.
2. Our company cannot provide the free warranty service due to the malfunction caused by personal reason, details as follows:
 - 1) The malfunction caused by disassemble and modify the product.
 - 2) The product inner malfunction caused by dropping while picking up or operating.
 - 3) The malfunction caused by improper used or lack of reasonable cared.
 - 4) The malfunction caused by operating not following the operator's manual.
 - 5) The malfunction caused by natural disasters, Such as flooding , fire.
 - 6) The malfunction caused by improper repaired by repaired shop which isn't our authorized.
3. Please show your valid warranty card and shopping vouchers when you need free service.
4. Please bring the product to repaired shop which is our authorized when you need free repaired.
5. When performing warranty service, if needed, you can provide information on product components to circuit diagrams and repairable identified by our qualified technical personnel.
6. We will collect reasonable charge when we repair some malfunctions which out warranty service.

Components		Quantity
Arm type Blood Pressure Monitor		1
Cuff		1
AA battery(optional)		4
Adapter(optional)		1
User manual		1