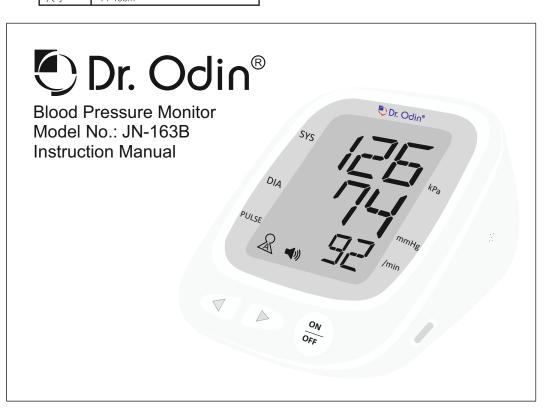
名称	臂式电子血压计使用说明书				
型号	JN-163B				
材质	128g铜版纸				
颜色	C:0	M:0	Y:0	K:100	
版本	Mar.2021.ver.4				
尺寸	14*10cm				

默认公差	± 1mm
制图	韩明磊
时间	2021年3月5日
说明	黑白印刷
变更履历	V4: 改版



Catalogue

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Preface

Thank you for choosing our Electronic Blood Pressure Monitor. To help you use it correctly, please read this user manual carefully before use, and keep it properly after reading, so that you can consult and refer to it at any time. Please do not lose the attached warranty card.

The illustrations in this manual are all renderings.

The blood pressure measured by this product is equivalent to that measured by auscultation. The error meets the requirements of YY0677-2008.

1. Product formation

Structure and composition:

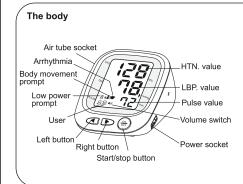
The product is made up of body, cuff, user manual and certificate; The body is composed of casing, button, integrated circuit board, air pump, solenoid valve, and display screen.

Range of application:

* The product measures the diastolic blood pressure, systolic blood pressure and pulse of the adult by oscillometric method, and its value is used for diagnosis.

Contraindications:

* Severe arrhythmia is disabled and children are disabled.



Arm Cuff and air tube

(Arm Cuff: Applicable arm circumference 22cm~32cm)

*Note: The arm cuff can be replaced by the user
Don't use non-manufacturer one, may cause measurement errors.



Accessories

Trial dry battery (AA) 4 sections

*Since the dry batteries are only used for trial, and can't use for 300times



User Manual (Warranty card)
Certification card

☐ Technical Parameters

Product Name:Arm Type Blood Pressure Monitor

Model:JN-163B

Displayer:LCD Screen

Measurement Technology:Oscillographic testing

Measurement Range: Measurement pressure:

0kPa-37.3kPa (0mmHg-280mmHg)Pulse value:

(30-180) beats/minute

Compressing: Automatic pressure pump

Aerofluxus: Automatic rapid exhaust

Pressure Examination: Resistive pressure sensor

Memories:2*99 memories

Power supply:DC 6V,4*AA alkaline batteries

Lifetime of batteries:About 250 measurements

Working condition:Temperature 5-40°C(41-104°F),

Relative Humidity: 15-80% RH,Atomsphere

pressure: 86-106Kpa

Equipment operation mode:Continuous operation

Electrical safety:Type B

Influent protection classification:Common equipment

Safety Classification: Not used in the air with Flammable

anesthetic gas

Transportation and Storage temperature/humidity:

Temperature: -20-55°C(-4-131°F),Humidity: 10-93%RH

 $\textbf{Accuracy} : Pressure: within \pm 0.4 kPa (3mmHg); Pulse value:$

±5% of the reading

Automatic shut off:≤70S

Net Weight:280g(not include batteries)

Dimension:115mnm*135mm*83mm

Cuff Perimeter:22~32cm or 22~42cm, subject to the

actual product

Accessories: Cuff, user manual (QC pass, warranty card), box,

Expiry:5 years

3. Precautions

The warning symbols and illustrations shown in the manual are intended to enable you to use the product safely and correctly and to prevent injury to you and others. Warning signs, legends and their meanings are as follows.

Warning symbols	Content
\triangle	There is a possibility of personal injury when using it incorrectly.

Illustrations					
\Diamond	General prohibition	(\$)	Prohibit disassemble		emble
0	General coercion	∱	B type application		
®	The safety and environmental protection life of this product is 10 Indicates II ty				Indicates II types of equipment

⚠Note

- It is dangerous for patients to make self-judgment and self-treatment by measuring the results. Please be sure to accept the guidance of the doctor.
- Patients with severe blood circulation disorders, blood diseases, please use under the guidance of doctors.
 acute internal bleeding may result from compression of the arm during measurement.
- Be sure to use the special cuff supplied by the manufacturer. Otherwise it cannot be measured correctly.

4

• Newborns, children, and those who cannot express their own thoughts are disabled. May be the cause of an accident or dispute.

- -

- This product is only used for the measurement of human blood pressure and pulse. For purposes other than
 measuring blood pressure and pulse, accidents may occur.
- The pressure of the cuff should be controlled below 280mmHg (37.3kPa). Otherwise, the arm may have symptoms such as congestion and numbness.



- Do not use this on mobile vehicles (planes, cars). Otherwise, it cannot be measured correctly.
- Do not disassemble or repair the blood pressure monitor body or arm cuff.



Suggestion

- If the pressure is not applied during the measurement process or the pressure does not stop, immediately turn off the main unit or pull out the cuff tubing plug and quickly vent.
- Please do not let the arm be inflated for a long time. When the airbag is in the state of persistent over-inflation, there is a risk of damage to the arm.
- Be sure to pay attention to the following points when measuring blood pressure, otherwise the blood pressure measurement may be inaccurate!
- 1. Do not eat, drink, drink coffee (black tea), smoke, exercise or bath for 30 minutes before the measurement. Please rest for at least 15 minutes.
- 2. Please measure in the correct posture with a quiet body, stable mood, and no urine.
- 3. Please do not speak or move your body during the measurement process.
- 4. Do not measure in an environment that is too cold, overheated, or subject to extreme conditions.

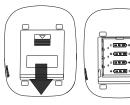
- 5. Avoid strong electromagnetic interference when measuring, such as mobile phones, microwave ovens, etc.
- 6. When a common arrhythmia (such as early morning, early morning, atrial fibrillation, etc.) occurs, the maximum value may be inaccurate or unmeasurable.
- 7. This product is only suitable for upper arm measurement and is not suitable for wrist and other parts measurement.

4. Battery installation

Remove the battery compartment cover of the main body, insert the battery according to the direction of the electrode in the battery compartment, and re-cover the battery compartment cover.

Note:

- ① It is recommended to use AA alkaline battery (4 sections).
- ② Do not misfit the positive and negative poles of the battery.
- ③ When there is a low power alarm during the measurement process, please replace the battery (new and old batteries, different types of batteries do not mix), even after the battery replacement measurement results will still be stored in memory.
- When not using for a long time (more than 3 months), please take out the battery and dispose of the used batteries properly to avoid polluting the environment.



☆Use external power supply (optional)

If you use an external power supply, be sure to use a stable power supply that complies with safety standards.

5.Ready measurement

1. Arm cuff and air tube connection description:

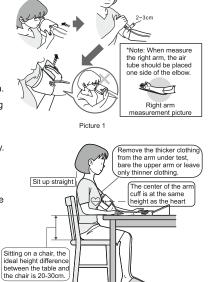
- ①Insert the air tube socket into the left air tube socket of the body
- ②In order to make the plug more smooth, the method of edge rotation and edge plug can be adopted

2. Tie and Roll arm cuff instructions (see picture 1)

- ①Take off your coat, sweater, etc., and wear a thin coat or bare arm.
- ②Pass the end of the cuff through the iron ring, the air tube is facing outward, and the strap is tied to the upper side of the elbow 2-3 cm.
- ③Palms upward, air tube straighten and the middle finger in the same extension line, press nylon clasp, so that the arm cuff is tied firmly.
- * Do not roll up the sleeves for measurement, the cuffs are in comfortable contact with the arms, similar to wearing tight clothing
- * The left and right arms can be measured, and the blood pressure of the left and right arms may be different. Therefore, the blood pressure value may be different. It is recommended that you always use the same arm for measurement. If the measurements vary greatly between the two arms, use it under the guidance of your doctor.

3. The correct measurement gesture(See picture 2)

- ①Sit on the chair, feet are placed on the floor flat
- ②Stand up straight, place your arms on the table, palm up, relax, and keep the center of the arm band flush with the heart.



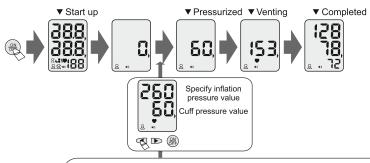
Picture 2

-7-

6. Take measurements

*This product provides 99 memory measurement modes for both groups. The instruction explains that taking group A measurement as an example, group B refers to the measurement operation of group A.

1. Press once 【Start/stop button】



The high pressure value is expected to exceed 200 mmHg.

After the cuff starts to pressurize, press the [\blacktriangleleft] key, and the inflation pressure value will be specified to pressurize to 260mmHg.

Press the [◀] key once more to increase the inflation pressure value by 20mmHg. Set the inflation pressure value to 30-40mmHg higher than the expected high pressure value.

· Start measuring

The machine starts and the cuff begins to automatically pressurize. Pressurize to a predetermined value, automatically vent at a constant rate, detect blood pressure and pulse rate.

Fast measuring

This blood pressure monitor pressurizes the process to predict high and low pressure, realize low pressure of low blood pressure, high pressure of high pressure of hypertension, shorten measurement time, each user can comfortably and quickly measure.

* Note: Please keep quiet and rest for 3 minutes before starting another measurement.

The rest time allows the artery to return to its pre-measurement state.

2. Take out the arm cuff

3. Press once 【Start/stop button】 to turn off

- This device saves the measurement value automatically
- It has automatic turn off function and will power off if there is no other operations.
- * Note: If there is pressure or discomfort during the measurement, or if the pressure does not stop, press the [Start/Stop] key to turn off the main unit or pull out the cuff air tube plug.

* Note:

This product has an upper limit of 280mmHg (37.3kPa). Do not leave your arm inflated for a long time to avoid damage to your arm. Do not pressurize to unnecessary pressure.

7. Measurement results, memory and query

1. The measurement results are shown in the figure below. High voltage: 128mmHa, low pressure: .78mmHg, pulse: 72 times/min. The measurement result is automatically saved, the serial number is 0, the previous result storage serial number is 1, and so on.



2. When there is a measurement error (the blood pressure monitor shows error E as shown in the figure below), please take a quiet rest for 3 minutes and then follow the operation procedure of item 6 for the re-measurement.



Memory:

This unit can store two sets of measurement results.

The serial number will appear for about 1 second before the maximum result is displayed. The latest set of measurement results is "0".

Query:

Press the 【◀】 button (as shown on the right) to check the saved data.

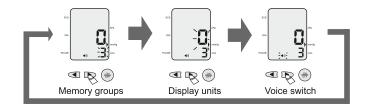


Press the 【◀】 or 【▶】 button (as shown on the right) to view the previous or next set of memory data.

8. Display unit, voice switch settings, memory clear and user switching

* This product provides two display units, mmHg (mmHg) and kPa (kPa). The specification explains that taking mmHg as an example, the factory default setting is mmHg as the display unit.

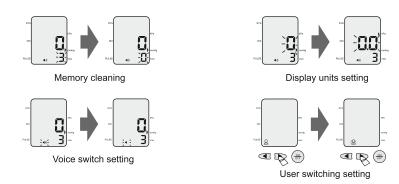
- 1. Shut down and press **[▶]** button (about 3 seconds) to boot
- 2. Press the [>] key to cycle through the following settings.



- * " $^{"}$ " indicates the flashing status
 - 3. Memory clearing

Adjust the second step to (Memory groups) is flashing, press once 【◀】 button, modify this value to "0".

*Some saved measurements cannot be deleted. If you want to delete, all measurements of the blood pressure monitor will be deleted.



- 4.Display units setting: Adjust the second step to (Display units) is flashing, press once 【◀】 button.
- 5. Voice switch setting: Adjust the second step to (Voice switch) is flashing, press once $\texttt{[} \blacktriangleleft \texttt{]}$ button.
- $\textbf{6.Save setting results: Press once} \quad \textbf{\texttt{[Start/Stop]}} \quad \text{button, turn it off, save setting results successfully.}$
- * This product provides 99 memory measurement modes for each group. Press [▶] in the off state to complete A or B user switching.

9. Display fault prompt

LCD error prompt and error cause correspondence table

Error	Display reason	Processing method
汝	Low power	Replace new batteries
	Insufficient cuff pressure	Please read and repeat the steps listed under Chapter 6
	Air tube joint disconnected	Plug in the air tube connector
	In the measurement process, the arm, body movement and other disturbances	Keep your body quiet and re-measure
E	The inflation pressure is not 30mmHg higher than the expected high pressure	Manually pressurize to meet the requirement of inflation pressure
	Cuffs are not tied correctly	Correctly tying the cuff
	Clothes pressure arm	Take off the clothes of the oppressed arm and measure
	Cuff leakage	Replace a new cuff Please call customer service for consultation
	Phenomenon	Possible reasons
		The cuff is not tied up
E :	Not pressurized	No cuff
		Air leak
E٩	Measurement failure	
85	Pressure greater than 280mmHg	

Safeguard and treatment

Anomalies	Reasons	Processing method	
	Cuffs are not tied correctly	Correctly tying the cuff	
The reading is too low (or too high)	moves or speaks during measuring process	Please keep quiet during the measurement	
	Clothes pressed the arm	Take off the clothes of the oppressed arm	
Cuff procesure does not rise	The air tube joint is not firmly connected	Make sure the air tube connector is securely connected	
Cuff pressure does not rise	Cuff leakage	Replace a new cuff Please call customer service for consultation	
Cuff exhaust too fast	Cuff roll tied too tight	Please roll up the cuff correctly	
Unable to measure or reading too high	Insufficient pressure on the cuff	Please read and repeat the steps listed under Chapter 6	
	Battery is exhausted	Replace the battery with a new one	
Can not boot	ReaBattery not installed properlysons	Please install the battery with the correct positive and negative poles	
Other failure	Press the start/stop button to re-measur If the problem persists, try replacing the measure, please call customer service to	battery with a new one. In addition, still can't	

10. Clean and Maintenance

Maintenance method:

- ①Please clean the blood pressure monitor if necessary
- ②Do not put the blood pressure monitor and cuff in the high temperature, humidity, full of water vapor or direct sunlight environment
 - 3Do not tightly fold the cuff or air tube
 - 4Do not remove the blood pressure monitor
 - ⑤Do not allow the blood pressure monitor to be strongly impacted or vibrated, eg by falling to the ground
 - ⑥Do not clean the blood pressure monitor with corrosive liquids
- ©Clean the blood pressure monitor with a soft, dry cloth. If the product is particularly dirty, use a soft cloth dampened with water or a neutral detergent, screw it on and wipe it off. If necessary, wipe it with absorbent cotton with sterile alcohol
 - ®Do not use gasoline, thinner or similar solvent to clean the cuff
 - 9Clean the cuff with a soft damp cloth and soap

Environmental protection:

After reaching the end of life, please send it to the appropriate place to protect the environment.(Note: The disposal of waste and residue shall conform to the relevant laws and regulations of the state.)

Calibration and repair

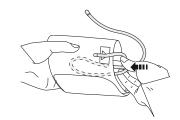
①The accuracy of this blood pressure monitor has been strictly tested and is generally recommended to be checked and calibrated at least every two years to ensure normal function and accuracy of the blood pressure monitor. It is carried out by a laboratory with metering qualification, manufacturer or through a manufacturer-authorized special maintenance centre

②Do not carry out any maintenance by yourself. If the product has any quality problems or questions about the correct measurement of the blood pressure monitor, please call the service number for consultation

Storage

Keep the blood pressure monitor in the package box when not in use

- ①Unplug the air tube connector from the air tube socket
- ②Gently fold the air tube into the cuff. Do not fold the air tube forcibly
- ③Keep the cuff and body in the box
- Do not put the machine in a place where it is easy to splash
- High temperature, humidity, direct sunlight, dusty or corrosive gas
- It is easy to tilt, it will produce vibration and impact



11. List of hazardous substance content

The name and content of toxic or hazardous substances or elements in the product

		Toxic or harmful substances or elements				
Part name	(Pb)	(Hg)	(Cd)	Cr(VI)	(PBB)	(PBDE)
Mounting substrate (including LCD)		0	0	0	0	0
Pressure control department		0	0	0	0	0
Battery	0	0	0	0	0	0
Shell	0	0	0	0	0	0
Cuff	0	0	0	0	0	0
Package material	0	0	0	0	0	0

 [:]Means that the content of the toxic and harmful substances in all homogeneous materials of the component is below the limit specified in the GB/T 26572-2011 standard

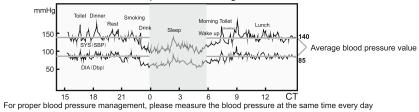
X: indicates that the content of the toxic and hazardous substances at least in a homogeneous material of the component exceeds the limit specified in the GB/T 26572-2011 standard

12. Knowledge of blood pressure

- Why is the blood pressure value measured different each time?
- A Is it measured at the same time?

During the day, even if measured every 10 seconds, blood pressure will change.

24-hour blood pressure level change chart



Blood pressure fluctuates for a variety of reasons

Even at home, the following measurements will change

*After drinking alcohol, coffee and black tea *Within 1 hour after a meal

*After smoking *After the bath *After exercise

*After urination *Talk during measurement

*When you are upset because of nervousness or anxiety

*When the room temperature suddenly changes

*Measuring site or environment is not the same as in the past

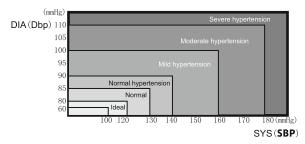
- Does congestion occur during continuous measurement?
- A During the measurement, the arm is pressed to force the blood flow to the fingertips to cause congestion. In the case of congestion, loosen the cuff, lift your hand over the top of the head, and repeat the grip and stretching of the palms 15 times or so to clear the congestion.
- Why does the cuff roll tie the arm and feel pain and numbness?
- A This is a temporary phenomenon. Don't worry about it. When measuring blood pressure, the cuff needs to be tightened to stop the flow of blood in the arteries temporarily, so the arm may feel some pain and numbness. When the cuff is removed, a little rest will ease the pain.
- When is the best time to measure blood pressure?
- A The best time to measure blood pressure is within an hour of getting up in the morning, or before going to bed at night
- *If you take your morning measurement, do it within 1 hour of waking up, after urination, before breakfast (if you are taking blood pressure medication, before taking medication)
 - *If night measurements are recommended before bedtime.
 - *If it is other time, it is best to measure when the body and mood are in a stable state.
 - *It is also recommended to test in the same time period every day.

13. Blood pressure status

Classification criteria for blood pressure status:

The World Health Organization (WHO) and the International Society of High Pressure (ISH) have developed blood pressure classifications as shown in the following figure. This table is based on different ages, sitting in a chair in a hospital, and blood pressure on the side upper arm.

Hypotension is not defined, and artificial hypotension is generally considered to be less than 100 mmHg (13.3 kPa).



Blood pressure classification by reference to WHO/ISH (revised in 1999)

14. Electromagnetic compatibility statement

JN-163B electronic blood pressure monitor meets the electromagnetic compatibility requirements of YY0505-2012 standard.

Basic performance is static pressure error



- •Users should install and use EMC information provided by random files.
- •Portable and mobile radio frequency communication devices may affect the performance of JN-163B electronic blood pressure and avoid strong electromagnetic interference such as proximity to mobile phones, microwave
 - •The guidelines and manufacturer's statement are attached.
 - •The minimum physiological signal was 40 mm Hg.



⚠ Warning:

- •The JN-163B electronic blood pressure should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed to operate properly in the configuration in which it is used.
- •In addition to the cables sold by the manufacturer of the JN-163B electronic blood pressure as spare parts for internal components, the use of extra-standard accessories and cables may result in increased emissions or reduced immunity of the JN-163B electronic blood pressure
- •Inaccurate consequences of running the device or system below the minimum or minimum value described above.

Table 1-Guide and manufacturer's statement-electromagnetic launch

Guide and manufacturer's statement - electromagnetic launch				
JN-163B Electronic blood pressure is intended for use in the electromagnetic environment specified below. The purchaser or user of this infrared thermometer should ensure that it is used in this electromagnetic environment:				
Launch experiment	Compliance Electromagnetic environment—guide			
RF emission	1 group	JN-163B Electronic blood pressure uses RF energy only for its internal function. Therefore, its		
Gb4824	B type	radio frequency emission is very low, and the possibility of interference with nearby electronic equipment is very small.		

Table2—Guidance and Manufacturer's Declaration - Electromagnetic Immunity

	Guidance and Ma	inufacturer's Declaration	n - Electromagnetic Immunity
JN-163B Electronic blood p user shall ensure that it is			stromagnetic environment specified below, and the purchaser or
Immunity test	IEC60601Test level	Consist level	Electromagnetic environment one guide
GB/T17626.2 Electrostatic discharge	6KV contact discharge 8KV air discharge	6KVcontactdischarge 8KV air discharge	The floor should be wood, concrete or ceramic tile, if the floor is covered with synthetic material, the relative humidity should be at least 30%
Power frequency electric field (50-60Hz) GB/T17626.8	3A/m	3A/m	Power frequency magnetic fields should have power frequency magnetic field characteristics of typical locations as the commercial or hospital environment

Table 3- Guidance and Manufacturer's Declaration-Electromagnetic Immunity

Guidance and Manufacturer's Declaration-Electromagnetic Immunity

JN-163B Electronic blood pressure monitor is intended to be used in the electromagnetic environment specified below, and the purchaser or user shall ensure that it is used in such electromagnetic environment:

and an animal and an animal and an animal an					
Immunity test	IEC60601 test level	Compliance level	Electromagnetic Environment-Guide		
GB/T17626.3 Radio frequency conduction GB/T17626.3	3V/m 80MHz~2.5GHz	3V/m	Portable and mobile RF communication equipment should not be used near any part of JN-163B than the recommended isolation distance, including cables. This distance should be calculated using the formula for the transmitter frequency.Recommended isolation distance In the formula: P—based on the maximum rated output power of the transmitter provided by the transmitter manufacturer in Watts (W); d—The recommended separation distance in meter (m). b. The field strength of the fixed RF transmitter is determined by surveying the electromagnetic field c, and should be lower than the compliance level in each frequency range d. Interference may occur near devices marked with the following symbols.		

Note 1: Formulas for higher frequency bands at frequencies of 80MHz and 800MHz

Note 2: These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by the absorption and reflection of buildings, objects and human bodies.

a Fixed transmitters, such as base stations for wireless (cellular/cordless) telephones and terrestrial mobile radios, amateur radio, AM and FM radio broadcasts, and television broadcasts, whose strong fields are theoretically not predictable in advance and are fixed for assessment purposes. The electromagnetic environment of the RF transmitter shall take into account the survey of the electromagnetic field. If the measured field strength of the infrared thermometer is higher than the applicable RF compliance level, the infrared thermometer shall be observed to verify its normal operation. If abnormal performance is observed, supplemental measures may be necessary, such as reorienting or positioning the infrared thermometer.

b In the entire frequency range from 150KHz to 80MHz, the field strength should be lower than 3V/m

Table 4- Recommended spacing distance between portable and mobile radio frequency communication equipment and JN-163B electronic blood pressure monitor

Recommended spacing distance between portable and mobile radio frequency communication equipment and JN-163B electronic blood pressure monitor

JN-163B electronic blood pressure monitor is expected to be used in an electromagnetic environment where radio frequency radiation disturbance is controlled. Depending on the maximum rated output power of the communication device, the purchaser or user may prevent electromagnetic interference by maintaining the minimum distance between the portable and mobile radio frequency communication device (transmitter) and JN-163B electronic blood pressure monitor recommended below

Transmitter maximum rated output power W	80MHz~800MHz d=1.2 √ <i>P</i>	800MHz~2.5GHz d=2.3 √ <i>P</i>
0.01	0.12	0.23
0.1	0.38	0.73
1	1.2	2.3
10	3.8	7.3
100	12	23

For the maximum rated output power of the transmitter not listed in the above table, the isolation distance d is recommended in meter (m) and can be determined using the formula in the corresponding transmitter frequency column, where P is provided by the transmitter manufacturer. The maximum output power rating of the transmitter in watts (W)

Note 1: Formulas for higher frequency range at 80MHz and 800MHz

Note 2: These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by the absorption and reflection of buildings, objects and human bodies

QC PASS

Product name: Arm type blood pressure monitor

Model#:JN-163B Inspector: its d

Manufacturing date: Series No.:

This product has passed the quality inspection of the company an quality meets the technical standard of the industry.

WARRANTY

This appliance is warranted for a period of One Year from the date of purchase as shown by the dealer's stamp and signature and by the purchaser's receipt.



IEC No: 2203001739

Import Lic. No.: IMP/MD/2022/000228

Imported & Marketed By:

Passim Medichem Agencies

186, Ind. Area Phase II, Chandigarh - 160 002

Corporate Office:

902, 9th Floor, WallFort House, S.V. Road, Near Citi Mall,

Goregaon (W), Mumbai-400 062

For any Complaint/ Suggestion please contact,

Customer Care No.: 1800 309 3009 (Timing: 9am -7pm, Mon. - Sat.) Email ID: customercare@drodin.in

Website: www.drodin.in