

WARRANTY CARD

Model No.:..... Lot No.:.....

Invoice No.:..... Date of Purchase.....

Purchased By:..... Contact No.:.....

Address:.....

Dealer's Name:.....

Register your product
to claim warranty



Dealer's Sign & Stamp

* Terms & Conditions apply

Warranty

Passim Lifesciences Ltd. warrants this unit against defects in materials and workmanship for **one year** from the date of purchase. During the warranty period, any defective parts will be repaired or replaced free of charge, **excluding consumable components** such as the cuffs, which is not covered once used.

Warranty is void if

The device is misused or not maintained per this manual.

Unauthorized repairs or modifications are made.

Operated in corrosive or harmful environments.

The warranty card is not fully completed and presented upon claim.

Symbols

Medical Device	Refer Instructions Manual	Warning/Caution
No Trash	Manufactured By	Must not be exposed in rain or excessive moisture
Lot No.	Keep Away From Sunlight	Manufacturing Date
Serial No.	Do not use if Package damaged	

Manufactured by:

Passim Lifesciences Ltd.

Plot No. 45, Ind. Area, Phase-II, Panchkula -134113, Haryana - INDIA

Mfg. Lic. No.: MFG/ MD/2022/000615

For any Complaint/ Suggestion please contact:

Customercare Number: 1800 309 3009, Timing: 9am-7pm, Mon. - Sat.

Email ID: customercare@droidin.in, Website: www.droidin.in

IM/OBP/92-00

Dr. Odin®

DIGITAL BLOOD PRESSURE MONITORING DEVICE



Model No. OBP106

1. Product Composition

1.1 Structure: The product consists mainly of the main unit and the arm cuff.

1.2 Working Principle: The pump inflates the cuff to pressurize the brachial artery. The artery changes from fully open to partially closed, then completely closed as cuff pressure rises. A pressure sensor detects oscillations in cuff pressure, converts them into digital signals, and sends them to the CPU. The embedded software analyzes the data to determine systolic pressure, diastolic pressure, and pulse rate.

2. Intended Use

For measuring systolic pressure, diastolic pressure, and pulse rate in adults. Not intended for use with neonates.

3. Technical Specifications

Product Name	Upper Arm Electronic Blood Pressure Monitor
Model	OBP106
Display	Digital LCD
Measurement Method	Inflation-based measurement
Principle	Oscillometric
Measurement Range	Inflation: 0-295 mmHg Systolic: 60-260 mmHg Diastolic: 40-200 mmHg Pulse: 40-180 bpm
Accuracy	Pressure: ± 3 mmHg (± 0.4 kPa) Pulse: $\pm 5\%$
Power Supply	DC 6V (4x LR03 AAA alkaline batteries)
Operating Conditions	Temperature: 5°C-40°C; Humidity: 15-85% RH (non-condensing)
Safety Classification	Internal power supply; BF type applied part
Inflation Method	Pump inflation with vibration plate
Deflation Method	Rapid release via solenoid valve
Pressure Detection	Semiconductor pressure sensor
Pulse Detection	Semiconductor pressure sensor
Cuff Size Range	22cm~42cm
Dimensions (Main Unit)	118 × 92 × 43.5 mm
Protection Grade	IP20

4. Contraindications

Not suitable for individuals with severe arrhythmia.

5. Precautions, Warnings, and Notices

(A) Medical and Usage Warnings:

1. When measuring blood pressure by yourself, please provide the results to a physician familiar with your health condition for diagnosis. The measurement results should be interpreted by a qualified medical professional.
2. If you are taking medication, follow your doctor's instructions.
3. For individuals with peripheral circulation disorders caused by certain illnesses, blood pressure readings taken from the arm may vary significantly.
4. This device cannot take accurate measurements for individuals with common arrhythmia.
5. Do not measure blood pressure outside the specified temperature/humidity range.
6. If the arm circumference exceeds the range specified in this manual, the results may be inaccurate.
7. Use only the cuff supplied with this unit; using a different cuff may result in measurement errors.
8. Always use the device in accordance with the method, intended use, indications, usage limitations, cuff placement, and conditions specified in this manual; otherwise, measurement errors may occur.
9. Before use, select the correct cuff size according to the applicable arm circumference range.
10. To ensure accurate routine resting blood pressure readings, especially for individuals with hypertension, measurements must be taken as instructed in this manual.
11. Any blood pressure reading can be affected by the measurement site, patient posture (standing, sitting, lying down), movement, or the patient's physiological condition. Follow the precautions in this manual when measuring.
12. If you obtain an unexpected reading, the operator should seek medical attention immediately.
13. The rated cuff pressure range must not exceed 290 mmHg.
14. Do not use the blood pressure monitor simultaneously with high-frequency surgical equipment.
15. The blood pressure monitor has a static pressure measurement mode for verifying pressure accuracy; this mode is provided by the manufacturer for use by maintenance personnel.
16. Kinking or bending of the tubing may cause continuous cuff pressure, affecting accuracy and potentially causing harm to the patient. Keep the tubing unobstructed during use.
17. Since blood pressure measurement interferes with blood flow, excessively frequent measurements may cause injury to the patient.
18. Measuring blood pressure over a wound may cause further injury.
19. Do not apply or inflate the cuff on any limb undergoing vascular intervention/treatment or with an arteriovenous (A-V) shunt, as this may temporarily interrupt blood flow and cause injury to the patient.

20. Do not apply or inflate the cuff on the arm on the side of a mastectomy or lymph node removal, as this may cause harm to the user.
21. Cuff inflation may temporarily disable the function of monitoring ME equipment used simultaneously on the same limb.
22. For long-term use of the blood pressure monitor, it is necessary to check whether its operation causes long-term damage to the user's blood circulation.
- (B) Do not use the device for purposes other than blood pressure measurement; otherwise, accidents or malfunctions may occur.
- (C) Do not disassemble, repair, or modify the device yourself; otherwise, accidents or malfunctions may occur.
- (D) Do not use mobile phones or other sources of electromagnetic interference near the device, as they may cause inaccurate measurements.
- (E) Do not drop the main unit onto the floor; avoid impact or strong shocks.
- (F) Do not use the blood pressure monitor immediately after taking it from a location below 0°C; allow it to sit in a room-temperature environment for at least 1 hour before use.
- (G) Clean only with a cloth moistened with warm water or mild soapy water; do not use other cleaning agents.
- (H) The cuff is to be wrapped around the arm only when measuring blood pressure; keep it free from dust or corrosive liquids.
- (I) Do not touch the main unit during measurement; if the device will not be used for a long period, remove the batteries.
- (J) Avoid storing the blood pressure monitor in places with high temperature, high humidity, or direct sunlight.
- (K) If the air bladder remains excessively inflated during use, it may cause user discomfort, such as pain or numbness. If discomfort occurs, promptly remove the cuff.
- (L) The blood pressure values measured by this device are equivalent to those obtained by the auscultatory method, and the measurement error complies with the requirements of YY 9706.230-2023. If you have any doubts about the measurement results, you may, accompanied by our company's professional personnel, take the product to a third-party professional testing organization for verification according to the requirements and test methods specified in YY 9706.230-2023.
- (M) It is recommended to calibrate this device at least once a year by sending it to a qualified professional organization or to our company. If the user disputes the calibration results, verification should be carried out, accompanied by our company's professional personnel, in accordance with the test methods specified in YY 9706.230-2023.
- (N) Replacing original parts with components not provided by the manufacturer may cause measurement errors. Do not connect adapters or extension cables to the device unless recommended by the manufacturer.
- (O) Store and use this product only within the specified temperature/humidity range to

avoid abnormal performance or function. Normal operating environment: temperature 5°C–40°C, humidity 15%RH–85%RH (non-condensing); normal storage and transport environment: temperature -20°C–55°C, humidity 10%RH–93%RH.

(P) When the main unit or accessories reach the end of their service life, dispose of them according to local regulations or return them to the manufacturer. Do not discard them casually, as this may pollute the environment and water sources.

(Q) The effectiveness of this blood pressure monitor for pregnant patients (including those with preeclampsia) has not been established.



Follow Operating Instructions

Note: UT refers to the AC mains voltage prior to applying the test voltage

a. Fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and television broadcast, have field strengths that cannot be accurately predicted theoretically. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength at the location of the OBP106 Arm-Type Electronic Blood Pressure Monitor exceeds the applicable RF compliance level above, the OBP106 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the OBP106.

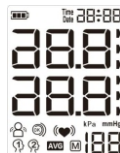
b. Across the entire frequency range from 150 kHz to 80 MHz, the field strength should be less than 3 V/m

6. Configuration List

1 Main unit, 1 Arm Cuff (suitable for arm circumference 22 cm–42 cm), 4* AAA Batteries, Instruction Manual, Warranty Card.

7. Installation and Usage Instructions

(1) Names of Each Component



Note: Irregular pulse wave is for display purposes only and is not a medical device function.

1. The main unit and arm cuff are the functional parts of the product.
2. The main unit's casing is primarily made of ABS, and the arm cuff is mainly made of nylon.

(2) Preparation Before Use

Open the product packaging and check whether all parts and accessories are complete according to the configuration list. If anything is missing, please contact the product dealer or manufacturer promptly.

(3) How to Use

1. Installing the Batteries

(1) Turn the blood pressure monitor over and remove the battery cover by pressing in the direction of the arrow.

(2) After confirming the correct polarity, install four AAA (size 7) alkaline batteries.

(3) Close the battery cover until a “click” sound is heard.

【Battery Replacement】

Please replace the batteries under the following conditions:

- The low battery icon “” appears during measurement;
- The voice prompt indicates “Low Battery”; “”;

Pressing the “Power” button does not turn on the device and the display remains blank.

【Battery Life】

Using a set of new LR03 AAA alkaline batteries, approximately 150 measurements can be performed (under conditions of 22-C ambient temperature, 180 mmHg cuff pressure, and 17 cm arm circumference). Since the included batteries are for trial use only, the actual number of measurements may be fewer than 150.

- Lower ambient temperatures will shorten battery life.
- Alkaline batteries may leak or explode if recharged, installed with incorrect polarity, short-circuited, mixed with used or different types of batteries, or disposed of in fire. Do not disassemble batteries. If the blood pressure monitor will not be used for a long time (more than 3 months), remove the batteries from the device.

2. How to Wear the Arm Cuff

• This arm cuff is suitable for arm circumferences of 22 cm to 42 cm. When connecting the tubing, avoid pressing or constricting it.

(1) Wrap the arm cuff around the bare upper arm. The outlet of the tube should align with the pinky side of the palm, and the upper edge of the cuff should be 2–3 cm above the inner side of the elbow.

(2) After securing the cuff, do not let clothing enter inside the cuff, as this may affect measurement accuracy.

• The cuff should not be too tight or too loose; it should be possible to insert two fingers under the cuff comfortably.

(3) During measurement, rest your elbow on a table with your palm facing upward. Relax your body and keep the cuff at the same height as your heart.

• If the cuff is not worn properly or placed correctly, an accurate blood pressure reading may not be obtained.

(4) If the cuff is wrapped properly, during the inflation process the monitor will display “” ; If the cuff is wrapped incorrectly, during inflation the monitor will display “”

3. Setup Operation Guide

• User Selection: Press and hold the “Memory” button for about 3 seconds to enter user selection mode; release the button, then short press the “Memory” button to toggle between User 1 and User 2; short press the “Power” button to confirm the user and enter the year setting.



- Year Setting: Press the “Memory” button to increment the current year value by 1; hold the “Memory” button to increase quickly; press the “Power” button to confirm the year and enter the month setting.
- Month Setting: Press the “Memory” button to increment the current month value by 1; hold the “Memory” button to increase quickly; valid month range is 1 to 12; press the “Power” button to confirm the month and enter the date setting.
- Date Setting: Press the “Memory” button to increment the current date value by 1; hold the “Memory” button to increase quickly; valid date range depends on the month; press the “Power” button to confirm the date and enter the hour setting.
- Hour Setting: Press the “Memory” button to increment the current hour value by 1; hold the “Memory” button to increase quickly; valid hour range is 0 to 23; press the “Power” button to confirm the hour and enter the minute setting.
- Minute Setting: Press the “Memory” button to increment the current minute value by 1; hold the “Memory” button to increase quickly; valid minute range is 0 to 59; press the “Power” button to confirm the minute and enter the blood pressure unit setting.
- Blood Pressure Unit Setting: Press the “Memory” button to toggle between mmHg and kPa; press the “Power” button to confirm the unit and enter the voice on/off setting (if no voice function, this step will power off the device).

(4) Measurement

Blood pressure measurement can be affected by the posture and physical condition of the person being measured. Please follow the correct measurement method below, measure in a relaxed state, and avoid adverse factors such as smoking, deep breathing, talking, and body movement to prevent affecting the results. Please sit quietly for 5 minutes before measurement.

1. Starting Measurement

In power-off state, press the power button:

(1) The display will show all segments for about 2 seconds, and voice prompt will start (if voice function is available).

(2) After the voice prompt ends, intelligent inflation will begin from 0 mmHg.

(3) Pressure gradually rises and measurement proceeds. When a pulse is detected, the heart symbol will flash. If you feel uncomfortable during the measurement, press the “Power” button to interrupt the test; the cuff will deflate.

2. Measurement End

Blood pressure values and pulse rate will be displayed. The cuff will automatically release air. If the measured blood pressure falls in the hypertension range, the voice prompt will say “High”; if in the normal range, the voice prompt will say “Normal.” The measured pulse rate is converted to beats per minute.

 **Note:** Only correct measurement methods will yield accurate values. Do not rely solely on the measurement results for judgment; always consult a doctor for guidance.

3. Automatic Storage of Measurement Values

Each user can store up to 99 measurement records. When new data is stored

beyond this limit, the oldest record will be automatically overwritten.

If a measurement cannot be taken correctly, an error code "Er#" (where # can be 2, 4, or 7) will be displayed, and the measurement will not be stored.

4. Viewing and Clearing Memory

- **Viewing Memory:** In power-off state, short press and release the "Memory" button to enter memory viewing mode. The first record shown is the average of the latest three measurements. Press the "Memory" button to cycle through other stored records.
- **Clearing Memory:** While viewing memory, press and hold the "Memory" button until "CL" appears on the screen. When the heart rate display shows the total number of stored records, release the button. After 1 second, all memory records will be deleted and the heart rate display will show 0.

5. Power Off

During cuff inflation, short press the "Power" button to turn off the device. If the power is not turned off manually, the blood pressure monitor will automatically shut down after 2 minutes of inactivity. Remove the batteries if the device will not be used for a long time.

(5) Other

1. Measurement Precautions:

Measure blood pressure daily at the same time, using the same arm and in the same posture.

Remain calm and quiet for 4 to 5 minutes before measurement.

(1) Correct Usage:

- Rest your elbow on the table.
- Keep the arm cuff at the same height as the heart, with your body upright.
- Do not roll up your clothing into the cuff.
- Keep your palm facing upward, and your body relaxed and straight.

(2) Creating a Stable Environment:

The ideal environment for measuring blood pressure:

- In the morning after waking up, when you are calm and relaxed.
- When you have not recently urinated or had a bowel movement.
- At a room temperature of about 20°C.
- In a quiet place without surrounding noise.

(3) Measure Blood Pressure at the Same Time Every Day:

Blood pressure fluctuates constantly and cannot be judged accurately based on a single measurement. Only multiple measurements taken over a period of time provide a more reliable assessment. Therefore, please make it a habit to measure your blood pressure daily. Choose a time of day when your mood is most stable (for example, shortly after waking up in the morning). The ideal method is to measure your blood pressure at the same time each day whenever possible.

2. Interpretation of Blood Pressure Values:

The World Health Organization defines hypertension as a systolic pressure (high pressure) higher than 140 mmHg or a diastolic pressure (low pressure) higher than 90 mmHg.

Generally, systolic pressure below 90 mmHg or diastolic pressure below 60 mmHg is considered low blood pressure (hypotension). Low blood pressure may cause insufficient blood perfusion to tissues, leading to cellular hypoxia. This can result in symptoms such as dizziness and fatigue, and in severe cases, palpitations and fainting.

5. Why Do Blood Pressure Readings Differ Each Time?

- Blood pressure changes continuously throughout the day and can vary depending on cuff placement and measuring posture. Therefore, please measure under consistent conditions each time.
- For people taking anti-hypertensive medication, blood pressure can sometimes vary widely due to medication effects.
- When taking two measurements consecutively, rest quietly for 4–5 minutes in between.
- Why Are Readings Different Between Left and Right Arms?

Results may vary between arms depending on individual conditions. Therefore, please use the same arm consistently for measurement.

• **Simple Validity Check for Arm-Type Electronic Blood Pressure Monitors (Cross-Measurement Method):** First, a doctor measures blood pressure using a mercury sphygmomanometer. After resting for 3 minutes, the electronic blood pressure monitor is used for a second measurement. After another 3-minute rest, the doctor takes a third measurement using the mercury sphygmomanometer. The average of the first and third readings is taken as the doctor's measurement value. Comparing this average with the electronic monitor reading, the difference is generally less than 10 mmHg (1.33 kPa). An electronic blood pressure monitor that meets this condition can be considered reliable for use.

• Product Cleaning and Maintenance

1. After use or when not in use, please organize and store the device and its accessories properly, protecting them from strong impacts or vibrations.
2. Remove the batteries or disconnect the power supply if the product will not be used for a long time.
3. Do not expose the main unit and accessories to high temperature, high humidity, dust, or direct sunlight.
4. Since the arm cuff contains a tightly sealed air bladder, handle it carefully. Do not fold, pull, or twist the air bladder.
5. Do not disassemble the main unit by yourself. For repairs, please contact the dealer for factory service. Do not attempt unauthorized repairs.
6. Do not replace parts without authorization.
7. If the main unit is dirty, clean it with a soft, dry cloth. For heavier dirt, use a soft cloth dampened with water or a neutral detergent, wrung out thoroughly, then wipe the unit. Afterwards, dry it with a dry soft cloth. If necessary, disinfect the device gently with cotton soaked in disinfectant alcohol (except the panel, nameplate, and silk-screen markings). Do not use laundry powder or detergents to wash with water!
8. Do not allow water or other liquids to enter the main unit.
9. Calibration is recommended at least once a year. Calibration should be performed

by a qualified professional metrology institution.

10. Cleaning and maintenance must not be performed during product use.

11. Cleaning and maintenance of the selected external power adapter should comply with the provisions of this section.

8. Common Troubleshooting

Warning: If the following issues cannot be resolved during use, or if faults other than those listed occur, please contact your local dealer or manufacturer for assistance. If the device is dirty, clean it with a soft, dry cloth. If it is particularly dirty, use a soft cloth dampened with water or a neutral detergent, wrung out thoroughly, to wipe the device, then dry it with a dry soft cloth. If necessary, gently disinfect the device with cotton soaked in disinfectant alcohol (except the panel, nameplate, and silk-screen markings). Do not use laundry powder or detergents to wash the device with water!

Do not allow water or any other liquids to seep into the interior of the main unit.

It is recommended to calibrate the device at least once a year. Calibration should be performed by a qualified professional metrology institution.

Cleaning and maintenance are prohibited while the product is in use

Fault Code	Description	Possible Cause	Solution
Er2	Measurement Error	Excessive noise causing inability to detect a valid pulse signal	Rest for 1 minute, adjust quit and avoid movement and talking during measurement
		few valid pulses detected	
		test result deviates from normal range	
	Zeroing Timeout	1. Air pressure inside cuff fluctuates during zeroing process 2. Sensor circuit malfunction; 3. Sensor damaged	1. Keep the cuff still during zeroing; 2. Check sensor power supply; 3. Replace the sensor.
HI	Measurement pressure exceeds protection limit	Pressure exceeds the design upper limit protection (290 mmHg)	Measure blood pressure again.
Er4	Cuff Wearing Error	1. Cuff not worn; 2. Cuff too loose; 3. Cuff too tight; 4. Pressure did not reach 10 mmHg within 7.5 seconds or 25mmHg within 18seconds; 5. Pressure dropped below 20 mmHg after exceeding 30 mmHg due to cuff loosening, etc.	Adjust the cuff; it should be tight enough to insert two fingers comfortably; position the cuff tube outlet 2 cm above the elbow crease.

 Lo	Low Battery	Battery voltage below minimum operating voltage	Replace the battery.
Full Display for 1 Second Then Shutdown	Severe Low Battery	Battery voltage below minimum voltage required to power on	Replace the battery.

The cleaning and maintenance of any selected external power adapter should comply with the provisions of this section.

9. Common Troubleshooting

Warning: If the following issues cannot be resolved during use, or if faults other than those listed occur, please contact your local dealer or manufacturer for assistance.

Self-Diagnosis of Abnormal Conditions (Part 1) The table below lists possible error codes that may appear during measurement, their possible causes, and recommended corrective actions. After correction, please measure again following the proper usage instructions.

Self-Diagnosis of Abnormal Conditions (Part 2) The table below lists common faults and troubleshooting methods that may occur during use. If you experience any of these situations, please refer to the corresponding solutions.

Common Fault	Troubleshooting Measures
Device has batteries installed, but does not work when pressing the "Power" button	Check if the battery polarity is reversed.
	Replace the batteries with new ones.
Frequent measurement failures, or Measurement values are significantly too low (or too high)	Check if the cuff is properly connected and wrapped Check if the cuff is too tight or too loose, and if rolled up clothing is pressing on the measurement area; if so, remove the clothing and re measure. Confirm that the measurement is taken in a quiet and relaxed state. It is best to take several deep breaths before measuring to relax yourself.
Device works properly, but measurement results vary each time	Please carefully read section Seven, "Installation and Usage Notes," subsection 5 "Others." Note :Blood pressure is dynamic, so some variation between measurements is normal.
Measured blood pressure differs from the doctor's or is significantly lower	Record your daily measurements and consult your doctor. Note: Frequent consultations may cause anxiety, resulting in higher blood pressure reading in the doctor's than when relaxed at home.
Pump works, but pressure does not increase	Check if the cuff connection is secure and if there is any air leakage. If the device is old and damaged, please purchase anewone.