



Owner's Manual

Arm-type Fully Automatic
Digital Blood Pressure Monitor
DBP-1318



Document No.: JDBP-2604-029 Version: Z



Home Aide Diagnostics, inc.
1072 S. Powerline Road
Deerfield Beach, FL 33442
Tel.: 1-800-915-0116
www.homeaide.us

Contents

1

Overview	2
WHO Blood Pressure Classification Indicator	3
Matters Needing Attention	4
Contraindications	7
Important Testing Guidelines	7
Scope Of Application	7
Product Structure And Composition	8
Package Contents	8
Monitor Unit	8
Arm Cuff	8
Display	8
Power Operation	9
Battery Installation	9
Adapter Power Supply	9
System Settings	10
Quick Start	11
Unit Operation	12
Testing	12
Power Off	14
Last 3 Tests Average	14
Memory Check	15
Memory Deletion	15
Maintenance	16
Troubleshooting	18
Specifications	19
Warranty Commitment	21

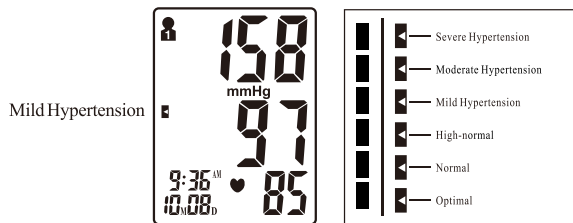
Overview

2

Blood pressure refers to the lateral pressure exerted on the blood vessel wall per unit area when blood flows in the blood vessels. It is one of the basic vital signs of human beings. The test usually measures systemic arterial blood pressure, including systolic and diastolic blood pressure. Blood pressure measurement is an important item in clinical physical examination. Normal blood pressure means that the heart and blood vessels are in normal operation. The abnormality of this index can be caused by a variety of physiological or pathological factors.

WHO Blood Pressure Classification Indicator 3

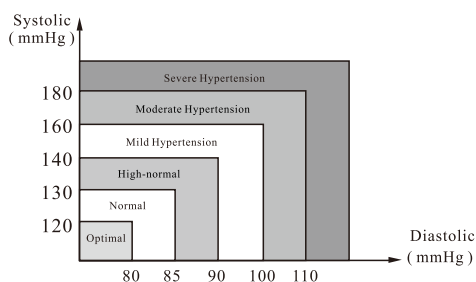
The DBP-1318 is equipped with a classification indicator based on established guidelines from the World Health Organization. The chart below (color coded on monitor unit) indicates test results.



■: Blood Pressure Classification Indicator

Health Reminder

Hypertension is a dangerous disease that can affect the quality of life. It can lead to a lot of problems including heart failure, kidney failure, and cerebral hemorrhaging. By maintaining a healthy lifestyle and visiting your physician on a regular basis, hypertension and relative diseases are much easier to control when diagnosed in their early stages.



Note: Do not be alarmed if an abnormal reading occurs. A better indication of an individual's blood pressure occurs after 2-3 readings are taken at the same time each day over an extended period of time. Consult your physician if test results remain abnormal.

Matters Needing Attention 4

Thank you for purchasing the DBP-1318 Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide years of satisfactory use.

Measure blood pressure (systolic and diastolic) and pulse rate in adults and adolescents over 12 years of age. All functions are safe to use and the values can also be read out in an LCD DISPLAY. The measurement position is placed only on the upper arm of an adult. This PATIENT is an intended OPERATOR.

Blood pressure measurement determined with this device are equivalent to those obtained by a trained observer using the cuff/ stethoscope auscultation method, within the limits prescribed by the Recognized Consensus Standard (IEC 81060-2-30) for electronic sphygmomanometers.

Precautions to Ensure Safe, Reliable Operation

1. Do not drop the unit. Protect it from sudden jars or shocks.
2. Do not insert foreign objects into any openings.
3. Do not attempt to disassemble the unit.
4. Do not crush the pressure cuff.
5. If the unit has been stored at temperatures below 0°C, leave it in a warm place for about 15 minutes before using it. Otherwise, the cuff may not inflate properly.
6. If the unit has been stored at temperatures above 40°C, leave it in a cool place for about 15 minutes before using it. Otherwise, the cuff may not inflate properly.
7. Do not store the unit in direct sunlight, high humidity or dust.
8. To avoid any possibility of accidental strangulation, keep this unit away from children and do not drape tubing around your neck.
9. Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
10. Some may get a skin irritation from the cuff taking frequent readings over the course of the day, but this irritation typically goes away on its own after the monitor is removed.

Matters Needing Attention 5

Important Instructions Before Use

1. Do not confuse self-monitoring with self-diagnosis. Blood pressure measurements should only be interpreted by a health professional who is familiar with your medical history.
2. Contact your physician if test results regularly indicate abnormal readings.
3. If you are taking medication, consult with your physician to determine the most appropriate time to measure your blood pressure. Never change a prescribed medication without first consulting with your physician.
4. Individuals with serious circulation problems may experience discomfort. Consult your physician prior to use.
5. For persons with irregular or unstable circulation resulting from diabetes, liver disease, arteriosclerosis or other medical conditions, there may be variations in blood pressure values measured at the wrist versus at the upper arm. Monitoring the trends in your blood pressure taken at either the arm or the wrist is nevertheless useful and important.
6. People suffering from vascular constriction, liver disorders or diabetes, people with cardiac pacemakers or a weak pulse, and women who are pregnant should consult their physician before measuring their blood pressure themselves. Different values may be obtained due to their condition.
7. People suffering from arrhythmias such as atrial or ventricular premature beats or atrial fibrillation only use this blood pressure monitor in consultation with your doctor. In certain cases oscillometric measurement method can produce incorrect readings.
8. Too frequent measurements can cause injury to the patient due to blood flow interference.
9. The cuff should not be applied over a wound as this can cause further injury.
10. **DO NOT** attach the cuff to a limb being used for IV infusions or any other intravascular access, therapy or an arterio-venous (A-V) shunt. The cuff inflation can temporarily block blood flow, potentially causing harm to the patient.
11. The cuff should not be placed on the arm on the side of a mastectomy. In the case of a double mastectomy use the side of the least dominant arm.
12. Pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring equipment on the same limb.
13. A compressed or kinked connection hose may cause continuous cuff pressure resulting in blood flow interference and potentially harmful injury to the patient.
14. Check that operation of the unit does not result in prolonged impairment of the circulation of the patient.
15. Product is designed for its intended use only. Do not misuse in any way.
16. Product is not intended for infants or individuals who cannot express their intentions.

Matters Needing Attention 6

17. Prolonged over-inflation of the bladder may cause ecchymoma of your arm.
18. Do not disassemble the unit or arm cuff. Do not attempt to repair.
19. Use only the approved arm cuff for this unit. Use of other arm cuffs may result in incorrect measurement results.
20. The system might produce incorrect readings if stored or used outside the manufacturer's specified temperature and humidity ranges. Make sure to store the blood pressure monitor, children, pets and pests are outside of accessible range.
21. Do not use the device near strong electrical or electromagnetic fields generated by cell phones or other devices, they may cause incorrect readings and interference or become interference source to the device.
22. Do not mix new and old batteries simultaneously.
23. Replace batteries when Low Battery Indicator "⊗" appears on screen. Replace both batteries at the same time.
24. Do not mix battery types. Long-life alkaline batteries are recommended.
25. Remove batteries from device when not in operation for more than 3 months.
26. Dispose batteries properly; observe local laws and regulations.
27. Only use a recommended AC adaptor double-insulated complying with EN 60601-1 and EN 60601-1-2. An unauthorized adapter may cause fire and electric shock.
28. Advising operator that Instruction manual/ Booklet must be consulted.
29. Do not use the device during transport vehicles for influencing measurement accuracy, such as patient transport in an ambulance or helicopter.
30. Contains small parts that may cause a choking hazard if swallowed by infants.
31. Please align the polarities of each battery with the +ve and -ve signs imprinted on the battery housing when you replace the batteries.

WARNING SIGNS AND SYMBOLS USED	
	Keep Dry
	Keep off Sunlight
	Type BF Equipment
	Instructions For Use MUST be Consulted
	Discard the used product to the recycling collection point according to local regulations

Contraindications

7

Not suitable for severe arrhythmia;
Not applicable to children aged 12 and under (including newborns and infants).

Important Testing Guidelines

1. Avoid eating, exercising, and bathing for 30 minutes prior to testing.
 2. Sit in a calm environment for at least 5 minutes prior to testing.
 3. Do not stand while testing. Sit in a relaxed position while keeping your arm level with your heart.
 4. Avoid speaking or moving body parts while testing.
 5. While testing, avoid strong electromagnetic interference such as microwave ovens and cell phones.
 6. Wait 3 minutes or longer before re-testing.
 7. Try to measure your blood pressure at the same time each day for consistency.
 8. Test comparisons should only be made when monitor is used on the same arm, in the same position, and at the same time of day.
 9. This blood pressure monitor is not recommended for people with severe arrhythmia.
 10. Do not use this blood pressure monitor if the device is damaged.
- Any blood pressure recording can be affected by the following factors:**
1. The position of the subject, his or her physiologic condition;
 2. The performance and accuracy of the device.
 3. Cuff size: too small cuff (bladder) will produce a higher blood pressure value than usual, too big cuff (bladder) will produce a lower blood pressure value.
 4. Measuring position does not keep level with your heart.
 5. Speaking or moving body parts while testing.
 6. Not relaxing for about 5 minutes before taking the measurement.

Scope Of Application

This product is intended for adults to measure and display blood pressure and pulse rate at home or in healthcare Settings.

Product Structure And Composition

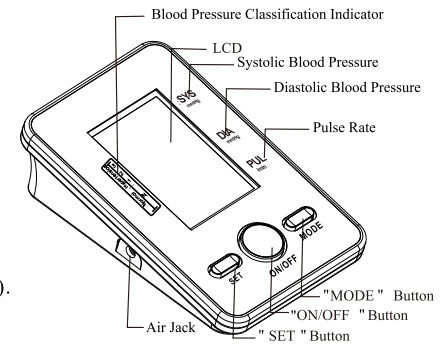
8

Product composition: Arm type sphygmomanometer is composed of host, battery and arm band.

Package Contents

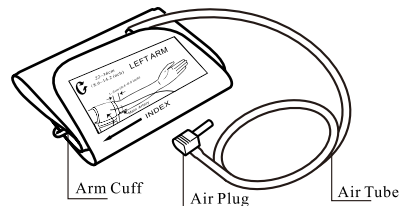
- Monitor Unit
- Owner's Manual
- Arm Cuff
- Storage Case
- 4 AAA batteries

Monitor Unit



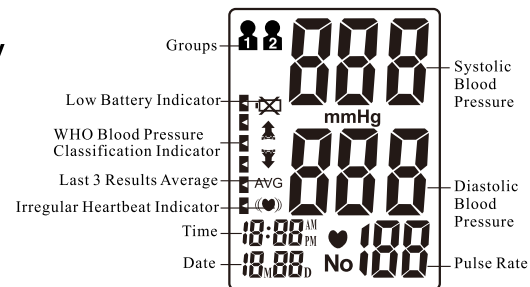
Arm Cuff

Medium size cuff (fits arm circumference: 22.0 cm -36.0 cm).



If air is leaking from the arm cuff, replace the arm cuff with a new one. It is generally recommended to have the cuff replaced timely to ensure correct functioning and accuracy. Please consult your local authorized distributor or dealer.

Display

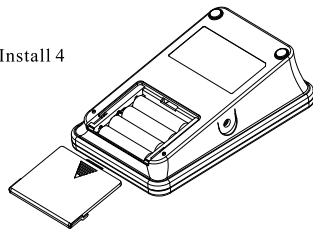


Power Operation

9

Battery Installation

Slide battery cover off as indicated by arrow. Install 4 new AAA alkaline batteries according to polarity. Close battery cover.

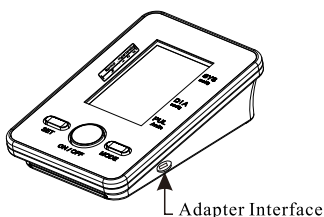


Note:

- 1) When installing batteries, be sure to follow the correct polarity. Installing batteries in reverse may damage the device.
- 2) Only certain sizes and types of batteries can be used.
- 3) Please do not mix different types of batteries together, do not mix old batteries with new batteries, and be sure to replace batteries at the same time.
- 4) When the low voltage indicator lights up, please replace the battery in time.
- 5) If the battery in the device is exhausted or the device is not used for a long time, please take out the battery to avoid damage or injury due to battery leakage.
- 6) Please do not attempt to charge non-rechargeable batteries, they may overheat and crack.
- 7) Batteries should be placed away from children and pets. If swallowed, batteries are harmful to human health. If children or pets ingest batteries, seek medical attention immediately.
- 8) Please dispose of used batteries according to the laws and regulations of the local government.

Adapter Power Supply

This blood pressure provides external power interface, can use the 2MOPP medical power adapter. The power supply port of the device is USB-C port, and the port applicable parameters is voltage 5V and current 1000mA. Do not use other types of AC adapters, otherwise, the device may be damaged. When a device is connected to an adapter, the power adapter is part of the entire device.



Note: Power supply is specified as part of ME EQUIPMENT.

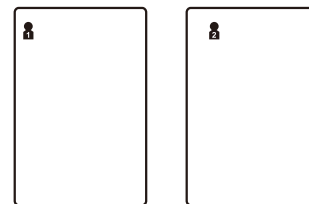
System Settings

10

With power off, press "SET" button to actuate system setting, the Memory Group icon flashes.

1. Select memory Group

While in the System Setting mode you may accumulate test results into 2 different groups. Press "MODE" button to choose a group setting. The test results will automatically store in each selected group.



2. Time /Date Setting

Press "SET" button again to set the Time/Date mode. Set the month firstly by adjusting the "MODE" button. Press "SET" button again to confirm current month. Continue setting the day, hour, and minute in the same way. Every time the "SET" button is pressed, it will lock in your selection and continue in succession (month, day, hour, minute).



3. Save settings.

While in any setting mode, press "ON/OFF" button to turn the unit off. All information will be saved.

Note: If unit is left on and not in use for 3 minutes, it will automatically save all information and shut off.

Quick Start

11

1. Install batteries. (See Figure A)
2. Insert cuff air plug into the left side of monitor unit. (See Figure B)

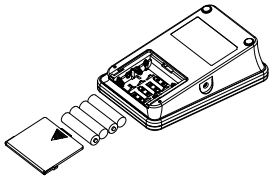


Figure A

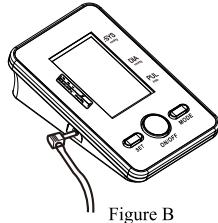


Figure B

3. Remove thick clothing from the arm area.
4. Rest for several minutes prior to testing. Sit down in a quiet place, preferably at a desk or table, with your arm resting on a firm surface, keep your legs uncrossed and your feet flat on the floor. (See Figure C)



Figure C

5. Apply cuff to your left arm and keep level with your heart. Bottom of cuff should be placed approximately 1-2cm (0.4-0.8") above elbow joint. (See Figures D&E)

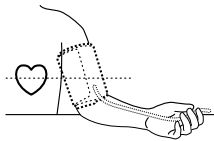


Figure D

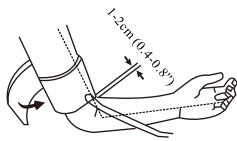


Figure E

6. Press "ON/OFF" Button to start testing.

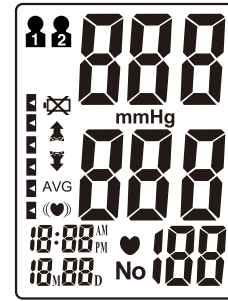
Note: Do not insert air plug into opening located on right side of monitor unit. This opening is designed for an optional power supply only.

Unit Operation

12

Testing

1. Power On
Press and hold "ON/OFF" button until a beep sounds. The LCD screen will appear for one second as unit performs a quick diagnosis. A long tone indicates device is ready for testing.



Note: Unit will not function if residual air from previous testing is present in cuff. The LCD will flash " " until pressure is stabilized.

2. Pressurization
The unit will automatically inflate to the proper pressure value and stop inflating. During this time, please keep quiet.



Note: Pressurization will gradually subside and ultimately stop when cuff is not properly applied to the arm. If this occurs, press "ON/OFF" button to turn the unit off.

Unit Operation

13

3. Testing

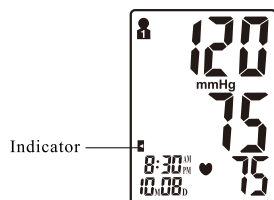
After cuff inflation, air will slowly subside as indicated by the corresponding cuff pressure value. A flashing " " will appear simultaneously on screen signaling heart beat detection.



Note: Keep relaxed during testing. Avoid speaking or moving body parts.

4. Result Display

Three short beeps sound when testing is complete. The screen will display measurements for systolic and diastolic blood pressure. An indicator representing the current measurement will appear next to the corresponding WHO Classification.



Note: Refer to detailed WHO Blood Pressure Classification Information.

Irregular Heartbeat Indicator

If the monitor detects an irregular heart rhythm two or more times during the measuring process, the Irregular Heartbeat Symbol " " appears on screen along with measurement results. Irregular heartbeat rhythm is defined as rhythm that is either 25% slower or faster than the average rhythm detected while measuring systolic blood pressure and diastolic blood pressure. Consult your physician if the Irregular Heartbeat Symbol " " frequently appears with your test results.

Unit Operation

14

Note: Be sure the appropriate Memory Group selection is made prior to testing. If the number of tests surpasses the allotted 60 memories per group, the most recent tests will appear first, thus eliminating the oldest readings.

Power Off

The "ON/OFF" button can be pressed to turn off the unit in any mode. The unit can turn off the power itself about 3 minutes no operation in any mode.

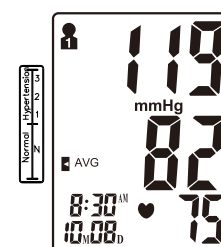


Safety Precaution: If pressure in arm cuff becomes too extreme while testing, press the "ON/OFF" button to turn power off. The cuff pressure will rapidly dissipate once the unit is off.

Last 3 Tests Average

With power off, press the "M" button to activate screen display. After the unit performs a self diagnosis, the screen will display the average test results from the last 3 readings of the last group used. The "AVG" symbol will appear along with the corresponding WHO Blood Pressure Indicator.

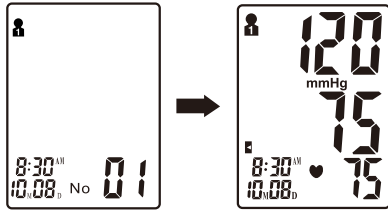
The Memory Check mode can be accessed by pressing "MODE" button. To check the average results from other groups, you must firstly select the desired group and then turn monitor off. (See "Select Memory Group")



If the memory is less than 3 groups, press the "MODE" button to memory check mode.

Memory Check

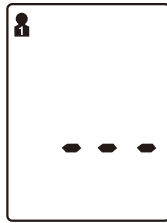
While in last 3 tests average mode, press "MODE" button again, you may check the last test results. The most recent test result and oldest test result in memory can be viewed by pressing and holding the "MODE" button. Upon activating test results, you can press the "MODE" button to scroll through all test results stored in memory.



Note: Previous test will only be displayed from the most recently used memory group. To check previous test results in other memory groups, you must first select the desired group and then turn monitor off. (See "Select Memory Group")

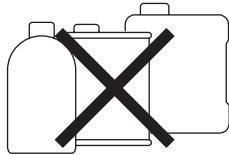
Memory Deletion

Memory for a selected group may be deleted while in Memory Check mode. Press and hold the "SET" button for approximately 3 seconds to delete all memory records from the selected group. The monitor will beep indicating successful deletion and then transfer into testing mode. Press the "ON/OFF" button to turn the unit off.

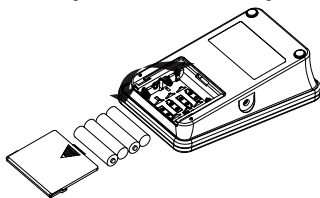


Note: Memory cannot be recovered once it has been deleted.

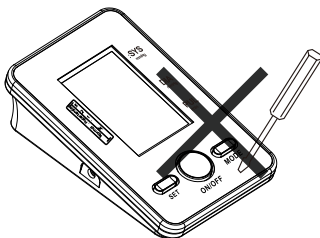
- Cuff Cleaning: Do not soak cuff in water! Apply a small amount of rubbing alcohol to a soft cloth to clean cuff's surface. Use a damp cloth (water-based) to wipe clean. Allow cuff to dry naturally at room temperature. The cuff must be cleaned and disinfected before use between different users.
- Do not use petrol, thinners or similar solvents.



- Remove batteries when not in operation for an extended period of time.

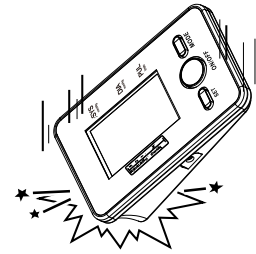


- Do not disassemble product.

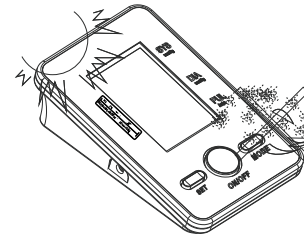


- It is recommended the performance should be checked every 2 years.
- Expected service life: Approximately three years at 10 tests per day.
- No service and maintenance while it is in use and maintenance only be performed by service personnel. Service and maintenance that requires parts, repair, technical support will be provided.

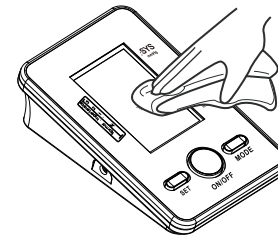
- Avoid dropping, slamming, or throwing the unit.



- Avoid extreme temperatures. Do not expose unit directly under sunshine.



- When cleaning the unit, use a soft fabric and lightly wipe with mild detergent. Use a damp cloth to remove dirt and excess detergent.



Problem	Possible Cause	Solution
Blood pressure results are not within typical range	Cuff is too tight or not properly positioned on the arm	Firmly reposition cuff approximately 1-2cm (1/2") above the elbow joint.
	Inaccurate test results due to body movement or monitor movement	Sit in a relaxed position with arm placed near heart. Avoid speaking or moving body parts while testing. Make sure the monitor unit is placed in a stationary position throughout the testing period.
"Err" displayed	Cuff fails to inflate properly	Make sure hose is properly fastened to cuff and monitor unit
	Improper operation	Read user manual carefully and re-test properly.
	Pressurization is over cuff rated pressure 300mmHg	Read user manual carefully and re-test properly.


Specifications

19

Model	DBP-1318	
Display	LCD Display	
Measurement Range	Systolic Pressure	60mmHg~260mmHg
	Diastolic Pressure	30mmHg~200mmHg
	Pressure	0mmHg~300mmHg
	Pressure error range	± 3mmHg
	Pulse	30 ~ 180 Beats/Minute
	Pulse error range	± 5%
Pressurization	Automatic Pressurization	
Memory	150 Memories in Two Groups with Date and Time	
Function	Irregular Heartbeat Detection	
	WHO Classification Indicator	
	Last 3 Results Average	
	Low Battery Detection	
	Automatic Power-Off	
Power Source	4 AAA batteries or Medical USB Adapter (DC 5.0V, 1000ma) recommended, not provided	

Specifications

20

Battery Life	Approximately 2 months at 3 tests per day	
Unit Weight	Approx.317g (11.18 oz.) (excluding battery)	
Unit Dimensions	Approx.139x88x43mm (5.47"x3.46"x1.69") (LxWxH)	
Cuff Circumference	Medium cuff: Fits arm circumference 22-36 cm	
Operating Environment	Temperature	10°C ~ 40°C (50°F~104°F)
	Humidity	15% ~ 93% RH
	Pressure	700hPa~1060hPa
Storage Environment	Temperature:	-25°C~70°C (-13°F~158°F)
	Humidity	≤93% RH
	Pressure	700hPa~1060hPa
Classification	Internal Powered Equipment, Type BF  , Cuff is the Applied Part	
Ingress Protection Rating	IP20, Indoor Use Only	

Warranty Commitment

21

The Blood Pressure Monitor is guaranteed for 2-year from the date of purchase. If the Blood Pressure Monitor does not function properly due to defective components or poor workmanship, we will repair or replace it freely. The warranty does not cover damages to your Blood Pressure Monitor due to improper handling. Please contact Home Aide Diagnostics, INC for details.