Homedics

automatic arm blood pressure monitor

INSTRUCTION MANUAL AND WARRANTY INFORMATION

1-year limited warranty

BPA- 5020-AU

IMPORTANT SAFETY INSTRUCTIONS

WHEN USING ELECTRICAL PRODUCTS, ESPECIALLY WHEN CHILDREN ARE PRESENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS BEFORE USING.

PRECAUTION

- This device is intended for indoor, home use and is not intended for self-use in public areas.
- This device is portable, but it is not intended for use during patient transport.
- This device is not suitable for continuous monitoring during medical emergencies or operations.
- This device is intended for non-invasive measuring and monitoring of arterial blood pressure.
- It is not intended for use on extremities other than the arm, or for any purpose other than obtaining a blood pressure measurement.
- This device is for adults. **DO NOT** use this device on neonates or infants. **DO NOT** use it on children and adolescents unless otherwise instructed by a medical professional.
- Consult with your physician before using this monitor if you suffer from the following conditions:
- Common arrhythmias such as premature ventricular beats or atrial fibrillation; peripheral arterial disease; pregnancy; preeclampsia; implantation with electrical devices; undergoing intravascular therapy; arteriovenous shunt or mastectomy.
- Please note that any of these conditions may affect measurement readings, in addition to patient motion, trembling or shivering.
- **DO NOT** use this device for diagnosis or treatment of any health problems or diseases. Please consult with your physician first whether the blood pressure or pulse rate readings can be used as an input in determining clinical actions. Please note that clinical actions can only be determined by the physician, otherwise it may lead to delayed treatment or other dangerous situations.
- If you are taking medication, consult your physician to determine the proper time to measure your blood pressure.
- This device may be used only for the intended use described in this manual, the manufacturer shall have no liability for any incidental, consequential, or special damages caused by misuse or abuse.
- Please use the device under the environment which is provided in the user manual. Otherwise, the performance and lifetime of the device will be impacted and reduced.
- The device may require up to 30 minutes to warm up / cool down from the minimum/ maximum storage temperature before it is ready for use.
- The blood pressure monitor and the cuff are suitable for use within the patient environment.
- **DO NOT** wash the cuff in a washing machine or dishwasher.
- The device contains sensitive electronic components. To avoid measurement errors, avoid taking blood pressure measurements near a strong electromagnetic field radiated interference signal or electrical fast transient/burst signal.
- Blood Pressure Monitor is intended for use by medical staffs and lay persons, and patient is also an intended user or operater.

⚠CAUTION:

- **DO NOT attempt to repair the unit yourself if it malfunctions. Only have repairs carried out by authorised service centers.**
- **It is recommended that the performance should be checked after repair, maintenance, and every two years of use, by retesting the requirements in limits of the error of the cuff pressure indication and air leakage (testing at least at 50 mmHg and 200 mmHg). Please contact manufacturer or distributor for authorised service personnel.**
- **Store your device, cuff in a clean and dry place, protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on it.**
- **Make sure the rubber tube of the cuff is not squeezed, stretched, or kinked during storage.**
- **Dispose of accessories, detachable parts, and the device according to the local guidelines.**

WARNING

- **DO NOT** apply the cuff on an arm that has an intravenous drip or a blood transfusion attached.
- **DO NOT** kink, fold, stretch, compress, or otherwise deform the tube during measuring, as the cuff pressure might continuously increase, which could prevent blood flow and result injury.
- Taking blood pressure measurements too frequently could disrupt blood circulation and cause injuries.
- **DO NOT** apply cuff to areas on patient where skin is delicate or damaged. Check cuff site frequently for irritation.
- **DO NOT** place the cuff on the arm of a person whose arteries or veins are undergoing medical treatment, i.e. intra-vascular access or intra-vascular therapy or an arteriovenous (A-V) shunt, which could disrupt blood circulation and cause injuries.
- **DO NOT** place the cuff on the arm on the same side of a mastectomy (especially when lymph nodes have been removed). it is recommended to take measurements on the unaffected side.
- **DO NOT** wrap the cuff on the same arm to which another monitoring device is applied. One or both devices could temporarily stop functioning if you try to use them at the same time.
- Please check (for example, by observation of the limb concerned) that the operation of the device does not result in prolonged impairment of patient blood circulation.
- On the rare occasion of a fault causing the cuff to remain fully inflated during measurement, loosen and remove the cuff immediately. Prolonged high pressure applied to the arm (cuff pressure >300 mmHg or constant pressure >15 mmHg for more than 3 minutes) might lead to bruising and discolored skin.
- **DO NOT** use this device with high-frequency (HF) surgical equipment at the same time.
- This device is not used in conjunction with oxygen rich environments, not intended for use with flammable anaesthetics, not intended for use in conjunction with flammable agents.
- **DO NOT** touch output of the batteries and the user simultaneously.
- The power cord is considered the disconnect device for isolating this equipment from supply mains.
- **DO NOT** position the equipment so that it is difficult to reach or disconnect.
- **DO NOT** use this device if you are allergic to polyester, nylon, or plastic.
- Only use accessories approved by manufacturer. Using unapproved accessories might cause damage to the unit and injure users.
- If you experience discomfort during a measurement, such as pain in the arm or other complaints, press the Power button immediately to release the air from the cuff.
- **DO NOT** use the device while under maintenance, or being serviced.
- The air tube poses a risk of strangulation. Furthermore, the small parts of product and batteries present a choking hazard if swallowed. They should therefore always be kept away from infants/children.
- Sensor degradation or looseness may reduce performance of device or cause other problems.

NOTICE

- You can use this device to take your own measurement, no third-party operator is required.
- At the request of authorized service personnel, circuit diagrams, component part lists, descriptions, and calibration procedures will be made available by the manufacturer or distributor.
- The expected lifetime of the cuff may vary by the frequency of washing, skin condition, and storage state.
- Please report to the manufacturer and the competent authority of the Member State / the FDA in which you are established about any serious incident that has occurred in relation to this device.

ABOUT BLOOD PRESSURE

GENERAL DESCRIPTION

Thank you for selecting the Homedics type blood pressure monitor (BPA-5020-AU). The monitor features blood pressure measurement, pulse rate measurement and the result storage. The warranty period is two years.
Readings taken by the BPA-5020-AU are equivalent to those obtained by a trained observer using the cuff and stethoscope auscultation method.
This manual contains important safety and care information, and provides step by step instructions for using the product.
Read the manual thoroughly before using the product.

Features:

- 59.5 mm×40.5 mm Digital LCD display
- 2 × 99 memory storage, Guest mode available
- Measuring-during-inflation technology

INDICATIONS FOR USE

This Blood Pressure Monitor is a digital monitor intended for use in measuring blood pressure and pulse rate with arm circumference ranging from 22cm to 32cm (about 8¾"-12½"*) or 22cm to 42cm (about 8¾"-16½"*).
It is intended for adult indoor use only.

MEASUREMENT PRINCIPLE

This product uses the Oscillometric Measuring method to detect blood pressure.
Before every measurement, the unit establishes a "zero pressure" equivalent to the atmospheric pressure. Then it starts inflating the arm cuff, meanwhile, the unit detects pressure oscillations generated by beat-to-beat pulsatile, which is used to determine the systolic and diastolic pressure, and also pulse rate.

RECEIVING AND INSPECTING YOUR MONITOR

Check that the device packaging has not been tampered with and make sure that all contents are present. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed.
If you have any doubts, **DO NOT** use the device and contact your retailer or the specified Customer Services address.

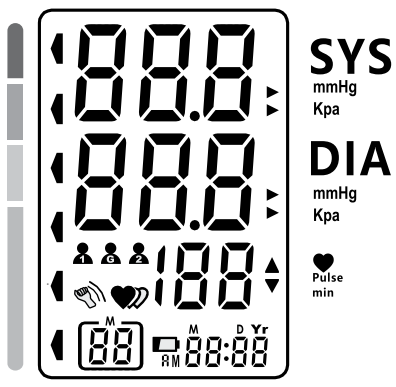
SAFETY INFORMATION

The signs below might be in the user manual, labeling or other component.
They are the requirement of standard and using

LCD DISPLAY SIGNAL

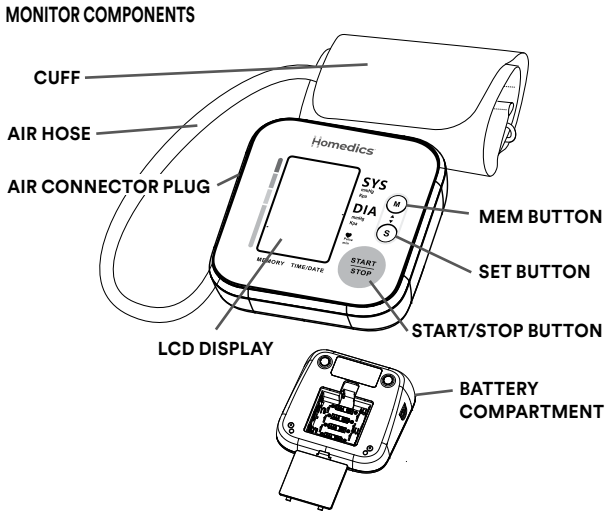
	Date of manufacture		Symbol for "TYPE BF APPLIED PART"
	Symbol for "MANUFACTURER"	SN	Symbol for "SERIAL NUMBER"
	Consult instructions for use or consult electronic instructions for use	LOT	Batch Code
	Symbol for "RECYCLE"		Caution Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.
MD	Medical Device		
⎓	Symbol for "DIRECT CURRENT"		
	Refer to instruction manual/booklet to signify that the instruction manual/ booklet must be read. Note: The background color of the symbol is blue.	EC REP	Authorised representative in the European Community/ European Union
			Australian Regulatory Compliance mark (RCM)
	The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.	CE 0123	CE marking indicates that a product has been assessed by the manufacturer and deemed to meet EU safety, health and environmental protection requirements. It is required for products manufactured anywhere in the world that are then marketed in the EU.

LCD DISPLAY SIGNAL

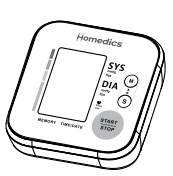


Symbol	Description	Explanation
SYS	Systolic blood pressure	High blood pressure
DIA	Diastolic blood pressure	Low blood pressure
Pulse/min	Pulse display	Pulse in beats per minute
M 88	Memory	Indicate it is in the memory mode and which group of memory it is.
kPa	kPa	Measurement Unit of the blood pressure
	Excessive Body Motion Detector	Motion may result in an inaccurate measurement.
+bAt Lo	Low battery	Batteries are low and need to be replaced
mmHg	mmHg	Measurement Unit of the blood pressure
	User 1/User G/User 2	Start measurement and save the measuring results for User 1/ User 2.
	Irregular pulse rate	Irregular pulse rate detected during measurement.
	Pulse rate	Blood pressure monitor is detecting a pulse rate during measurement.
▼	Deflation symbol	The cuff is deflating.
AM 88:88	Current Time	Time and date (year/month/day; hour:minute).
	Blood pressure level	Indicates the blood pressure level.

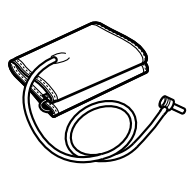
MONITOR COMPONENTS



1. Blood pressure Monitor (BPA-5020-AU)

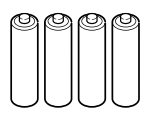


2. Cuff (Type BF Applied part)



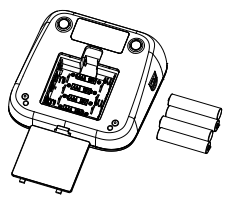
Upper arm cuff:22-42cm.

3. 4xAAA Batteries



4. User Manual

INSTALLING AND REPLACING THE BATTERY



- Open the battery cover.
- Install the batteries as indicated in the battery compartment
- (Always select the authorised / specified battery: Four AAA-size batteries.
- Replace the battery cover.

Replace the batteries whenever the below happens

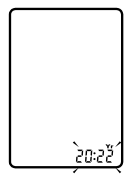
- The +bAt Lo shows
- The display is dim
- The display does not light up

⚠CAUTION:

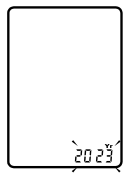
- **New and used batteries, or different types of batteries shall not be used together.**
- **Remove batteries if the device is not likely to be used for some time.**
- **DO NOT heat or deform the batteries, or dispose of them in fire.**
- **Batteries should not be disposed of with household waste.**
- **Please check with your local authority for battery recycling advice.**

SETTING DATE, TIME AND MEASUREMENT UNIT

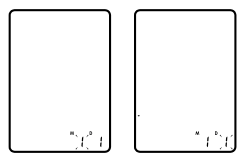
It is important to set the clock before using your blood pressure monitor, so that a time stamp can be assigned to each record that is stored in the memory. (The setting range of the year :2022-2052 time format:12 H/24 H)



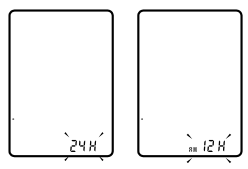
1. When the monitor is off, hold pressing the "SET" button for 3 seconds to enter the mode for year setting. Or when the batteries are installed for the first time, it will enter the setting mode automatically.



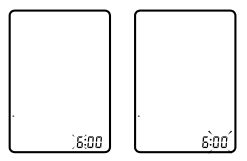
2. Press the "MEM" or "SET" button to change the [YEAR]. Each press will increase or decrease the numeral by one in a cycling manner.



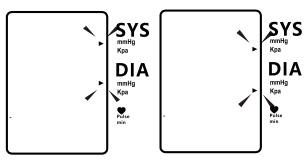
3. When you get the right year, press the "START/STOP" button to set down and turn to next step. Repeat the same steps to set the [MONTH] and [DAY].



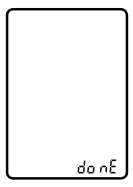
4. Repeat the same steps to confirm time format between [12 H] and [24 H]



5. Repeat the same steps to set the [HOUR] and [MINUTE].

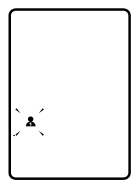


6. Repeat the same steps to set the [UNIT].

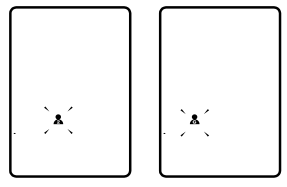


7. After the unit is set,the LCD will display "donE", and then it will turn off automatically.

SELECT THE USER



1. When the monitor is off , short press the "SET" button to enter user setting mode. The user ID will blink.



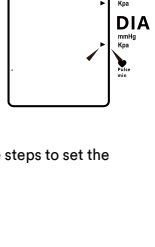
2. Then press the "SET" button again to select the user ID: User 1 , User 2 or User G.

Press the "START/STOP" button to confirm the selected user ID, then the User ID will not flash any more and the monitor will enter the measurement automatically.

APPLYING THE CUFF

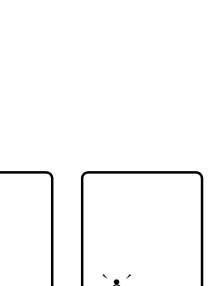
Only use a cuff that has been approved by the manufacturer for this device model.
Before use, please confirm if it fits your arm circumference.

1. Remove all jewelry, such as watches and bracelets from your left arm.
   Note: If your doctor has diagnosed you with poor circulation in your left arm, use your right arm.
2. Roll or push up your sleeve to expose the skin. Make sure your sleeve is not too tight.
3. Hold your arm with your palm facing up and tie the cuff on your upper arm, align the Artery indicator with the main Artery (on the inside of your arm). Note: Locate the main Artery by pressing with 2 fingers approximately 2 cm above the bend of your elbow on the inside of your left arm. Identify where the pulse can be felt the strongest, that is your main Artery



4. Make sure the bottom edge of the arm cuff 2 to 3 cm above the inside elbow. Then wrap the cuff securely. Note: The cuff should be snug but not too tight. You should be able to insert one finger between the cuff and your arm.

5. Sit upright in a comfortable chair with your back against the backrest of the chair. Keep your feet flat and your legs uncrossed. Place your arm resting comfortably on a flat table. The cuff worn on your arm should be placed at the same level as your right atrium of the heart.



6. Take 5-6 deep breaths and let's start measuring!

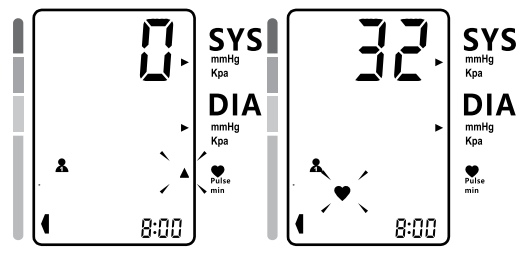
Helpful tips:

- Take the measurement in a silent room.
- Rest for 5 minutes before a measurement.
- Wait at least 3 minutes before another measurement. This allows your blood circulation to recover.
- Be relaxed and **DO NOT** move and talk during the measurement procedure.
- For a meaningful comparison, try to measure under similar conditions. For example, take daily measurements at approximately the same time, on the same arm, or as directed by a physician.

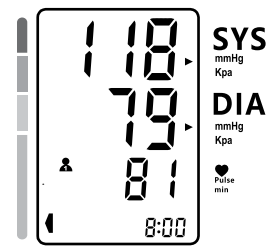
START THE MEASUREMENT

1. When the monitor is off, press the "START/STOP" button to turn on the monitor, and it will finish the whole measurement. (Take User 1 for example).

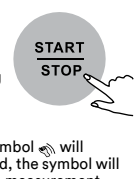
Adjust the zero. Inflating and measuring



Display and save the results.

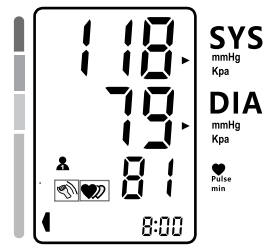


2. Press the "START/STOP" button to power off, otherwise it will turn off within 1 minute.
3. About the irregular pulse rate and excessive body motion during the measurement. During a measurement, If an irregular pulse rate is detected, the symbol ♥ will display in the measurement result. See page 20 for more information.
4. During a measurement, when the excessive body motion, the symbol will flash about 5 seconds and detect again. If it is no longer detected, the symbol will disappear; If still detected, the symbol will final display in the measurement result.



Note:
The measured blood pressure reading may not be accurate if this symbol is displayed.

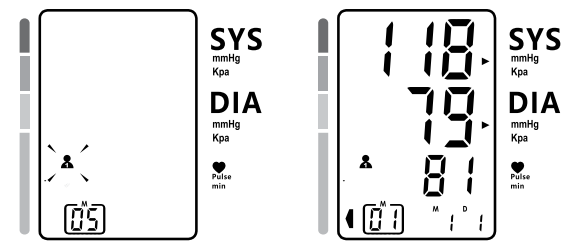
Note:
Any time if you want to stop the measurement, press the "START/ STOP" button.



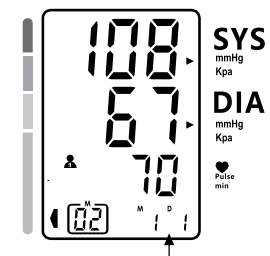
DATA MANAGEMENT

RECALL THE RECORDS

1. When the monitor is off, press the "MEM" button, the user ID will blink, you can press the "MEM" or "SET" button to switch the user ID between User 1 and User 2.
2. Press the "START/STOP" button to confirm the selected user ID. Then the LCD will display the latest record. (Example shown below for User 1)



3. Press the "MEM" or "SET" button to get the record you want.



Date,Time and Year will display alternately.

- 02 — The current record is Group 2.
- 2023 — The corresponding year is 2023.
- 1 1 — The corresponding date is January 1st.
- 8:01 — The corresponding time is 08:01 (a.m.).

Note

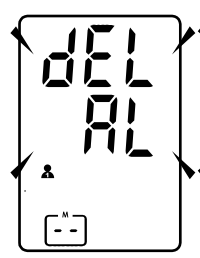
1. For User G (guest), there is no memory space.
2. Both User 1 and User 2 can store maximum 99 groups of record. When you pass that limit, every time you recall the records, the monitor will show a blinking "FULL" along with the group number "99".

⚠CAUTION:
The most recent record (1) is shown first. Each new measurement is assigned to the first (1) record. All other records are pushed back one digit (e.g., 2 becomes 3, and so on), and the last record (99) is dropped.

DELETE THE RECORDS

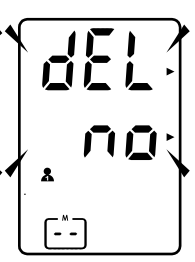
If you did not get the correct measurement, you can delete all results by following steps below.

1. Hold pressing the "START/STOP" button for about 3 seconds when the monitor is in the memory recall mode , the display will show a blinking "dEL AL" along with the user ID.



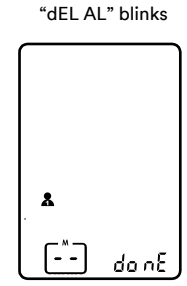
"dEL AL" blinks

2. Use the "MEM" or "SET" button to switch between "dEL AL" and "dEL no", Press "START/ STOP" to confirm the selection.

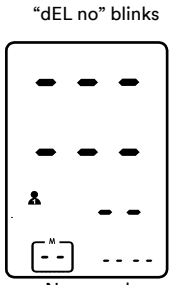


"dEL no" blinks

3. If "dEL AL" is selected, it will display "do nE" + User ID, and delete all the record of the current user. Several seconds later, it will display "---". If "dEL no" is selected, it will stop the deletion.



Deletion is done

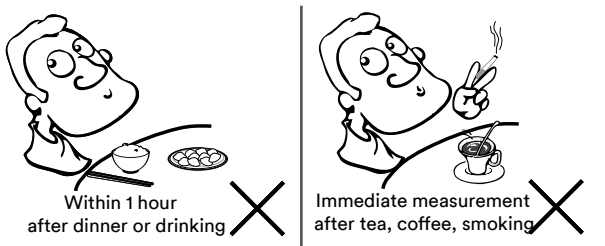


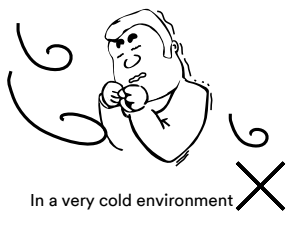
No record

INFORMATION FOR USER

TIPS FOR MEASUREMENT

Measurements may be inaccurate if taken in the following circumstances





MAINTENANCE

In order to get the best performance, please follow the instructions below.

CLEANING PROCESS:

Step 1: Make sure to switch off and unplug the device prior to cleaning
Step 2: Use a soft cloth dampened with soapy water to clean the cuff first, and then use a soft cloth dampened with clear water to remove residual soap until there is no visible residual contaminants. Attention shall be paid to avoid liquid invasion into the cuff.
Step 3: Use a dry soft cloth to wipe the cuff, in order to remove residual moisture.
Step 4: Dry the cuff at a well-ventilated place after cleaning.

DISINFECTION PROCESS:

Step 1: Make sure to switch off and unplug the device prior to disinfection.
Step 2: Use a soft cloth dampened with 70% isopropanol to disinfect the cuff for about 3 minutes. Attention shall be paid to avoid liquid invasion into the cuff.
Step 3: Use a clean dry cloth or towel to wipe off the disinfectant until there is no visible residue.
Step 4: Dry the cuff at a well-ventilated place after disinfection.

Suggestion:

FREQUENCY OF CLEANING AND DISINFECTION:

For single patient multiple use, it's recommended to clean the device surface once a month or whenever it's necessary,

For multiple patient multiple use, it's recommended to clean the device every time before and after usage. Maintenance procedures shall be taken as per instruction

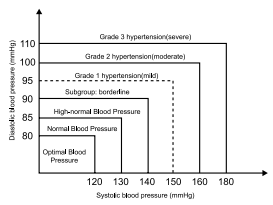
ABOUT BLOOD PRESSURE

WHAT ARE SYSTOLIC PRESSURE AND DIASTOLIC PRESSURE?

When ventricles contract and pump blood out of the heart, the blood pressure reaches its maximum value in the cycle, which is called systolic pressure. When the ventricles relax, the blood pressure reaches its minimum value in the cycle, which is called diastolic pressure.

WHAT IS THE STANDARD BLOOD PRESSURE CLASSIFICATION?

The blood pressure classification published by World Health Organization (WHO) and International Society of Hypertension (ISH) in 1999 is as follows:



⚠ CAUTION
Only a physician can tell your normal BP range. Please contact a physician if your measuring result falls out of the range. Please note that only a physician can tell whether your blood pressure value has reached a dangerous point.

Blood Pressure Category	Systolic mm HG (upper number)		Diastolic mm Hg (lower number)
Normal	<120	and	<80
Elevated	120-129	and	<80
High Blood Pressure (Hypertension) Stage 1	130-139	or	80-89
High Blood Pressure (Hypertension) Stage 2	≤140	or	≤90
Hypertension Crisis (Consult your doctor immediately)	>180	and/or	>120

IRREGULAR PULSE RATE DETECTOR

An irregular pulse rate will be detected if there is an irregular pulse rhythm while measuring systolic and diastolic blood pressure. When measurements were performed, the monitor will record all pulse intervals and calculate the average. If two or more pulse intervals were recorded, and the difference between each interval and the average is larger than ±25% of the average; or if four or more pulse intervals were recorded, and the difference between each interval and the average is larger than ±15% of the average value, the irregular pulse symbol will be displayed along with measurement results.

⚠ CAUTION
The appearance of the IPR icon indicates that a pulse irregularity consistent with an irregular pulse rate was detected during measurement. Usually this is NOT a cause for concern. However, if the symbol appears often, we recommend you seek medical advice. Please note that the irregular pulse rate detector results cannot be used directly for clinical judgment. Please seek medical advice from professionals before making any medical decisions.

WHY DOES MY BLOOD PRESSURE FLUCTUATE THROUGHOUT THE DAY?

1. Individual blood pressure varies multiple times everyday. It is also affected by the way you tie your cuff and your measurement position, so please take the measurement under the same conditions.
2. If the person takes medicine. The pressure will
   nore.
   at least 3 minutes for another measurement.

WHY DO I GET A DIFFERENT BLOOD PRESSURE AT HOME COMPARED TO THE HOSPITAL?

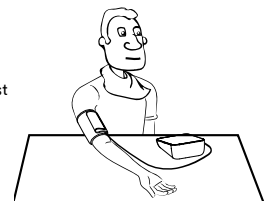
The blood pressure is different even throughout the day due to weather, emotion, exercise etc, Also, there is the "white coat" effect, which means blood pressure usually increases in clinical settings. Is the result the same if measuring on the right arm?

What you need to pay attention to when you measure your blood pressure at home:

- If the cuff is tied properly.
- If the cuff is too tight or too loose.
- If the cuff is tied on the upper arm.
- If you feel anxious.
- Taking 2-3 deep breaths before beginning will be better for measuring.
- Advice: Relax yourself for 4-5 minutes until you calm down.

IS THE RESULT THE SAME IF MEASURING ON THE RIGHT ARM?

It is okay for both arms, but there will be some different results for different people. We suggest you measure the same arm every time.



TROUBLESHOOTING

If any abnormality arises during use, please check the following points:

Problem	Symptom	Check This	Remedy
No power	Display will not light up.	Batteries are exhausted.	Replace with new batteries.
		Batteries are inserted incorrectly.	Insert the batteries correctly.
High Battery	bAt H shows	The battery is too high.	Replace with new batteries
Low Batteries	Display is dim or shows ▭+ bAt Lo	The battery is low.	Replace with new batteries.
Error Message	E 1 shows	The cuff is not wrapped well or the cuff air plug is loose	Readjust the cuff, not too loose or too tight and then measure again.
	E 2 shows	The monitor detected motion, talking or the pulse is too poor while measuring.	Relax for a moment and then measure again.
	E 3 shows	The measurement process does not detect the pulse signal.	Loosen the clothing on the arm and then measure again.
	E 4 shows	The treatment of the measurement failed.	Relax for a moment and then measure again.
	EEx shows on the display.	Hardware error occurred.	Retake the measurement. If the problem persists, contact the retailer or our customer service department for further assistance. Refer to the warranty for contact information and return.
Warning Message	"out " shows	Out of measurement range	Relax for a moment. Refasten the cuff and then measure again. If the problem persists, contact your physician.

NOTE: If the product still does not work, contact Customer Service. Under no circumstance should you disassemble or attempt to repair the unit by yourself.

SPECIFICATIONS

Power supply	Battery powered mode: 4× AAA batteries
Display mode	Digital LCD display V.A.59.5mm×40.5mm
Measurement mode	Oscillographic testing mode
Measurement range	Rated cuff pressure: 0mmHg~299mmHg(0kPa ~ 39.9kPa) Measurement pressure: SYS: 60mmHg~230mmHg (8.0kPa~30.7kPa) DIA: 40mmHg~130mmHg (5.3kPa~17.3kPa) Pulse value: (40-199)beat/minute
Accuracy	Static Pressure: 5-40°C within ±3mmHg Pulse value: ±5% Clinical validation: Mean difference within ±5mmHg; Standard deviation ≤8mmHg
Normal working condition	A temperature range of: +5°C to +40°C A relative humidity range of 15% to 90%, non-condensing, but not requiring a water vapour partial pressure greater than 50 hPa An atmospheric pressure range of 700 hPa to 1060 hPa
Storage & transportation Condition	Temperature:-20°C to +60°C A relative humidity range of ≤ 93%, non-condensing, at a water vapour pressure up to 50 hPa An atmospheric pressure range of 500 hPa to 1060 hPa
Measurement perimeter of the arm	About 22cm~42cm
Net Weight	Approx.187g(Excluding the dry cells and cuff)
External dimensions	Approx.110mm×110mm×42mm
Attachment	4×AAA batteries, user manual
Mode of operation	Continuous operation
Degree of protection	Type BF applied part
Protection against ingress of water	IP21 It means the device could be protected against solid foreign objects of 12,5mm > and greater, and against vertically falling water drops
Device Classification	Battery Powered Mode: Internally Powered ME Equipment
Software Version	A01
Expected Lifetime	Device: 3 years or 30,000 measurements (may vary based on usage conditions) Cuff: 10000 times Alkaline battery: About 200-300 times
Types of use/reuse	Multiple patient multiple use

WARNING: No modification of this equipment is allowed.

EMC GUIDANCE

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments.

Essential performance: Accuracy of measuring blood pressure
The Basis Safety of the Blood Pressure Monitor (BPA-5020-AU) is as following: Deviation from normal operation that poses an unacceptable risk to the patient or operator.

Warning: Don't be near the active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

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 30 cm (12 inches) to any part of the equipment including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

TECHNICAL DESCRIPTION

1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the expected lifetime.
2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

TABLE 01

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not applicable
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable

TABLE 02

Guidance and manufacturer's declaration – electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Not applicable	Not applicable
Surge IEC61000-4-5	Not applicable	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not applicable	Not applicable
Power frequency magnetic field IEC 61000-4-8	30 A/m 50 Hz / 60 Hz	30 A/m 50Hz/60Hz
Conduced RF IEC61000-4-6	Not applicable	Not applicable
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE: U_T is the a.c. mains voltage prior to application of the test level.		

TABLE 03

Part 1:

Guidance and manufacturer's declaration - electromagnetic Immunity				
	Test Frequency (MHz)	Band (MHz)	Service	Modulation
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communi- ons equipment)	385	380-390	TETRA 400	Pulse modulation 18 Hz
	450	430-470	GMRS 460, FRS 460	FM ± 5k Hz deviation 1 kHz sine
	710 745 780	704-787	LTE Band 13, 17	Pulse modulation 217 Hz
	810 870 930	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz
	1720 1845 1970	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4,25; UMTS	Pulse modulation 217 Hz
	2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz
	5240 5500 5785	5100-5800	WLAN 802.11 a/n	Pulse modulation 217 Hz

Part 2:

Guidance and manufacturer's declaration - electromagnetic Immunity				
	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test Level (V/m)	Compliance level (V/m)
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	1.8	0.3	27	27
	2	0.3	28	28
	0.2	0.3	9	9
	2	0.3	28	28
	2	0.3	28	28
	2	0.3	28	28
	0.2	0.3	9	9

Homedics

1-YEAR LIMITED WARRANTY

We or us means Homedics Australia Pty Ltd ACN 31 103 985 717 and our contact details are set out at the end of this warranty;

You means the purchaser or the original end-user of the Goods. You may be a domestic user or a professional user;

Supplier means the authorised distributor or retailer of the Goods that sold you the Goods in Australia and New Zealand; and

Goods means the product or equipment which was accompanied by this warranty and purchased in Australia and New Zealand.

For Australia:

Our Goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled, subject to the provisions of the Australian Consumer Law, to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled, subject to the provisions of the Australian Consumer Law, to have the Goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This is not a complete statement of your legal rights as a consumer.

For New Zealand:

Our Goods come with guarantees that cannot be excluded under the Consumer Guarantees Act 1993. This guarantee applies in addition to the conditions and guarantees implied by that legislation.

The Warranty

Homedics sells its products with the intent that they are free of defects in manufacture and workmanship under normal use and service. In the unlikely event that your Homedics product proves to be faulty within 1 year from the date of purchase due to workmanship or materials only, we will replace it at our own expense, subject to the terms and conditions of this guarantee. The warranty period is limited to 3 months from the date of purchase for products used commercially/professionally.

Terms and Conditions:

In addition to the rights and remedies that you have under the Australian Consumer Law, Consumer Guarantees Act of New Zealand or any other applicable law and without excluding such rights and remedies warranty against defects:

The Goods are designed to withstand the rigors of normal household use and are manufactured to the highest standards using the highest quality components. Whilst unlikely, if, during the first 12 months (3 months commercial use) from their date of purchase from the Supplier (Warranty Period), the Goods prove defective by reason of improper workmanship or materials and none of your statutory rights or remedies apply, we will replace the Goods, subject to the terms and conditions of this warranty.

We DO NOT have to replace the Goods under this Additional Warranty if the Goods have been damaged due to misuse or abuse, accident,
the attachment of any unauthorised accessory, alteration to the product, improper installation, unauthorised repairs or modifications, improper use of electrical/power supply, loss of power, malfunction or damage of an operating part from failure to provide manufacturer's recommended maintenance, transportation damage, theft, neglect, vandalism, environmental conditions or any other conditions whatsoever that are beyond the control of Homedics.

This Warranty does not extend to the purchase of used, repaired or second-hand products or to products not imported or supplied by Homedics Australia Pty Ltd, including but not limited to those sold on offshore internet auction sites.

This Warranty extends only to consumers and does not extend to Suppliers.

Even when we DO NOT have to replace the Goods, we may decide to do so anyway. In some cases, we may decide to substitute the Goods with a similar alternative product of our choosing.
All such decisions are at our absolute discretion.

All such replaced or substituted Goods continue to receive the benefit of this Additional Warranty for the time remaining on the original Warranty Period (or three months, whichever is the longest).

This Additional Warranty does not cover items damaged by normal wear and tear including but not limited to chips, scratches, abrasions, discolouration and other minor defects, where the damage has negligible effect on the operation or performance of the Goods.

This Additional Warranty is limited to replacement or substitution only. As far as the law permits, we will not be liable for any loss or damage caused to property or persons arising from any cause whatsoever and shall have no liability for any incidental, consequential, or special damages.

This warranty is only valid and enforceable in Australia and New Zealand.

Making a Claim:

In order to claim under this Warranty, you must return the Goods to the Supplier (place of purchase) for replacement. If this is not possible, please contact our Customer Service department by email:
cservice@Homedics.com.au or at the address below.

All returned Goods must be accompanied by satisfactory proof of purchase which clearly indicates the name and address of the Supplier, the date and place of purchase and identifies product. It is best to provide an original, legible, and unmodified receipt or sales invoice.

You must bear any expense for return of the Goods or otherwise associated with making your claim under this Additional Warranty.

DISTRIBUTED BY
AUSTRALIA: Homedics Australia Pty Ltd,
14 Kingsley Close, Rowville, VIC 3178
NEW ZEALAND: CDB Media Ltd, 4 Lovell Court, Albany, Auckland, New Zealand 0800 232 633

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