



Fully Automatic Blood Pressure Monitor

User Manual

BPx1A

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Support

Our manual should provide you with all the information you need to set up and use this product.

If you have a question, have a look at our [Frequently Asked Questions](#) or [Abnormality & Troubleshooting](#) page!

For further assistance, why not contact our Customer Care team directly? We're here to help!

Our Customer Care team are available from 9am-5pm, Monday to Friday (excluding bank holidays).

We promise to respond to all queries and will ensure to resolve any issue you may be having.

You can reach us by...

Phone:

+44 1483 937969

Live Chat:

Simply visit www.kinetikwellbeing.com and send us a message.

Email:

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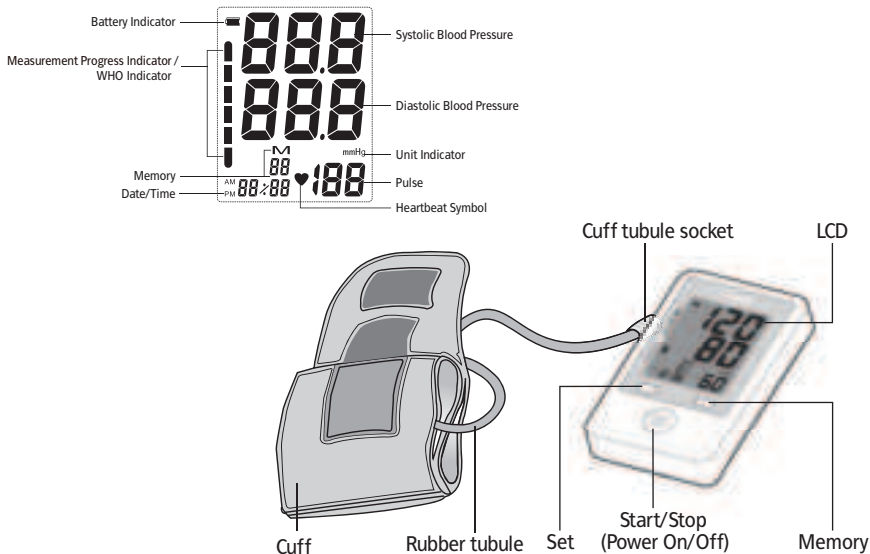
Introduction

Thank you for buying your Kinetik Fully Automatic Blood Pressure Monitor. Whether you have already been diagnosed with high blood pressure or want to track any changes to your blood pressure, you have taken the first step to quick, easy and accurate measurement that will keep you and, if necessary, your doctor informed.

- Easy to use – fully automatic, works at the push of a button.
- Easy to read – quick reference indicator.
- Comfortable - quick release one size cuff suitable for a wide range of arm sizes.
- Memory to store 90 measurements.

Before you start, it is important that you read this manual carefully. Blood pressure testing is easy but to make sure you have the most accurate readings, it is important to follow the instructions. Please keep them in a safe place in case you need to refer back to them at a later date.

Parts



Setting up your Blood Pressure Monitor

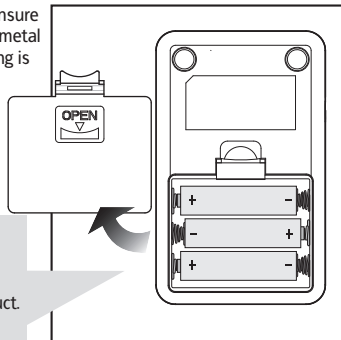
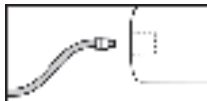
Loading the Batteries

- Open the battery cover at the back of the monitor.
- Insert three "AA" batteries, observing correct polarity.
- Close the battery cover.

- ⌚ Do not mix old and new batteries or different types of batteries. Do not use rechargeable batteries. Only batteries of the same or equivalent type as recommended are to be used. Batteries must be handled with care under adult supervision. If batteries leak and come into contact with the skin or eyes, wash immediately with copious amount of water.

Connecting the Cuff

- Insert the rubber tube plug of the cuff firmly into the cuff socket located on the side of the monitor to ensure there is no air leakage.
- The cuff should be ready to use. Ensure that the end is passed through the metal loop and the hook and loop fastening is facing outwards.



Replacing Batteries

- ⌚ When the LCD screen displays 'Lo', new batteries must be inserted immediately to ensure accurate results.
- ⌚ Rechargeable batteries with a voltage of 1.2V are not suitable for this product.
- ⌚ Please dispose of batteries according to battery manufacture's instructions.

Setting up your Blood Pressure Monitor

Putting on the Cuff

- a. Place the cuff 1~2cm above the elbow joint.



- Measuring can be done on light clothing such as a shirt or blouse. However, if you have a weak pulse, it is recommended you test on a bare arm.
- Remove any tight or restrictive clothing from your arm. For example, restriction caused by rolling up shirt sleeve.

- c. Turn the cuff end outwards and tighten it by pulling it through the metal loop and pressing the hook surface of the cuff on to the loop surface of the cuff.



- b. Place hand on a flat surface with the palm facing up and with the rubber tube running down the center of the arm.



- d. Use your free hand to adjust the tightness of the cuff until it is firm.

- To get the correct tightness of the cuff, you should be able to fit two fingers under the cuff.
- Concerned about which arm to use?
Please refer to 'Your first test' on page 6.

- The cuff can be cleaned by hand with warm, soapy water. Rinse thoroughly with cold water and towel dry.
DO NOT IRON.

Using your Blood Pressure Monitor

Your first test

The British Hypertension Society (BHS) recommends that for your first test, you test both your arms. (Note: Ensure you do not suffer from any medical conditions which will prevent you from having your blood pressure measured in both arms). This will determine which arm should be used for future measurements. Take note of your systolic (high number) reading on both arms. The arm which gives the higher systolic reading should be used in the future for testing.

Example

Left arm: $\frac{132}{86}$ (systolic)
(diastolic)

Right arm: $\frac{128}{84}$ (systolic)
(diastolic)

○ Then use your left arm

Using your Blood Pressure Monitor

Setting the time and date

Once the batteries are inserted and the battery cover is put back into place, the display will flash the year 2015 in the bottom left hand corner. To adjust the Year press the MEM button repeatedly until correct (pressing and holding the MEM button will advance the year rapidly). When the correct year is shown, press the SET button and the display will now show the date in Day/Month form.

Press the MEM button to adjust the Day then press the SET button to select the Month. Again adjust the Month using the MEM button. Once complete, press the SET button to adjust the hours and minutes. Finally, press the MEM button for the last time to select either 12 or 24 hour time format. Once the time and date have been set, press the START/STOP button. The unit will switch off with the time and date stored correctly.

Note: The time and date will be stored even when the batteries have been removed to be changed. To re-adjust the time and date (when the clocks change for example), remove and reinstall the batteries to re-start the setting procedure. If however no change of time and date is necessary after changing the batteries, simply press the START/STOP button to cancel the setting procedure.

Start

- a. We recommend that you carry out your test whilst sitting at a table (ensuring the cuff is at the same height as your heart). This will place your arm and the monitor in an ideal position for the best results.
- b. Place the cuff on your selected arm (please refer to 'Your first test' on how to select an arm).
Ensure the cuff is secure. Do not inflate the cuff when it is not wrapped around the arm.
- c. Once you are in a comfortable position, switch the unit on by pressing the START/STOP button to begin automatic inflation.

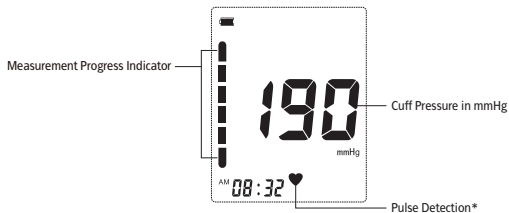
○ **if you feel any discomfort or pain during this time, press the START/STOP button and remove the cuff immediately. Consult your local pharmacist or healthcare professional for advice.**

Using your Blood Pressure Monitor

Measuring Process

a. This monitor uses Measure While Inflate technology. This means that the measurement is made as the cuff inflates, rather than fully inflating first then measuring during the deflation stage.

As the cuff inflates the display will show the following:



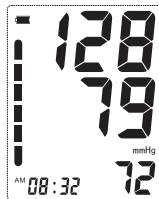
*Shown when a pulse is detected during the measurement process.

○ If there is an error or abnormal reading, please refer to the "Abnormality & Troubleshooting" section.

Using your Blood Pressure Monitor

What the results mean

- The LCD screen will automatically display the systolic and diastolic pressure reading in mmHg and the pulse rate in pulse/min after each measurement.
- Record date, time, systolic reading, diastolic reading and pulse rate on your record card which you will find in the pack (including anything that may have influenced your blood pressure reading e.g. stress, anxiety). This will help you monitor trends. Please take this record card with you on your visits to your doctor, pharmacist or healthcare professional.



- ☐ Measurements should ideally be taken at the same time, under the same conditions and in the same position each time.

Please be aware that blood pressure can fluctuate since it responds to minute changes in the body. It is unusual for it to continuously remain at the same value, hence it is recommended that the blood pressure be determined based on an average of multiple measurements. If you experience a higher than normal reading, do not panic as this can happen. Relax and take a break for at least 10 minutes before measuring your blood pressure again. Low blood pressure (Hypotension) and high blood pressure (Hypertension) can only be diagnosed by a qualified healthcare professional, such as a doctor, pharmacist. If you have any concerns or questions, please contact your pharmacist or healthcare professional.

To get an accurate value:

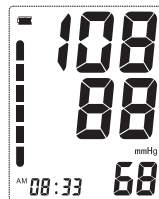
- ☐ Measure one hour after eating and avoid measuring immediately after bathing.
- ☐ Measure one hour after smoking or drinking alcohol/coffee.
- ☐ Relax for 10-20 minutes before taking a measurement and remain relaxed whilst measuring.
- ☐ Do not move or talk during measurement, as this will affect the accuracy.
- ☐ Do not use this monitor if you suffer from atrial or ventricular premature beats or atrial fibrillation.

Using your Blood Pressure Monitor

Re-measuring

If you want to measure again, just press the START/STOP button twice.

- Leave at least three minutes between measurements to allow blood circulation to the arm to return to normal.
- Do not measure your blood pressure too many times in one session as it may cause discomfort in the arm.
- If you feel any discomfort or pain, turn the monitor off and remove the cuff immediately.



Shut Down

Please turn the unit off after measurement if not re-measuring.

- The unit has an automatic 'switch off' mechanism which means it will turn off after 2 minutes if not being used.

Using your Blood Pressure Monitor

Memory

The memory can store 90 sets of measurements and these results will be automatically stored after each reading.

To check the memory, press the MEM button (either just after a measurement has been taken or while the unit is off). Press the MEM button to scroll up or the SET button to scroll down through the individual memories.

Note that the most recent measurement is always stored in memory slot 1. Once all 90 memory slots are filled, the oldest memory will be erased during the next measurement to make room for the latest memory.

Deleting the Memory

With the unit off, press the MEM button to switch the unit on then press and hold the SET button for 4 seconds. Press the SET button again to alternate between 'DEL NO' and 'DEL YES'. Confirm by pressing the START/STOP button.

The above procedure will delete the entire memory bank, not just a single measurement.

Once deleted, the memory cannot be recovered.

Interpretation of Blood Pressure (BP) Results

Category of Blood Pressure	Systolic BP (mmHg)	Diastolic BP (mmHg)	Advice on Results
Hypotension	<100	<60	Practice a healthy lifestyle. Consult your doctor only if suffering symptoms of low BP (eg. fainting)
Ideal	<120	<80	Practice a healthy lifestyle.
Normal	120-129	80-84	Practice a healthy lifestyle.
High Normal	130-139	85-89	Practice a healthy lifestyle.
Hypertension (mild)*	140-159	90-99	Practice a healthy lifestyle. Re-measure BP monthly over next 3 months. If high levels ($\geq 140/90$) persist (eg. 2 high readings on 2 separate occasions) consult doctor
Hypertension (moderate)*	160-179	100-109	Practice a healthy lifestyle. Re-measure BP monthly over next 4 months. If high levels ($\geq 140/90$) persist (eg. 2 high readings on 2 separate occasions) consult doctor
Hypertension (severe)*	180-219	110-119	Re-measure BP in a few days. If BP $\geq 180/110$, consult doctor
Hypertension (very severe)*	≥ 220	≥ 120	We would recommend that you see your pharmacist or healthcare professional.

* Your BP should be re-assessed professionally at least once a year - speak to your pharmacist or healthcare professional. If systolic BP and diastolic BP fall into different categories, the higher value should be taken for classification.

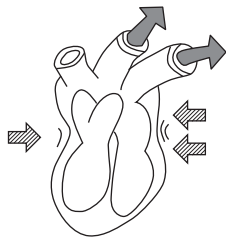
Additional Information on Blood Pressure

Your heart is just like a pump which works all the time to make the blood flow through all blood vessels. Blood pressure measures the force on the wall of the blood vessels caused by the pressure of the blood. The output of blood from the heart when it pushes blood around the body is called systolic blood pressure. Diastolic blood pressure is the measurement of the blood returning to the heart.

Blood pressure is normally written as, for example: $\frac{120}{80}$ (systolic)
(diastolic)

Fluctuation of Blood Pressure

Blood pressure fluctuates constantly during the day. Its value in the daytime is higher than in the evening with the lowest level being at midnight. The pressure begins to rise again at 03:00am and reaches its highest level any time during the day – so it is impossible to get a consistent reading. For this reason, please take your measurements at the same time of day.



■ Systolic ▨ Diastolic

Specification

- (1) Model: BPx1A
- (2) Digital display system
- (3) Measuring method: Oscillometric method
- (4) Measuring Accuracy: Within ± 3 mmHg
- (5) Blood pressure Measuring range: 0 mmHg ~ 299 mmHg
- (6) Pulse rate range: 40 ~ 180/min
- (7) Pulse rate accuracy: Within $\pm 5\%$
- (8) Power source: 3 x AA size batteries
- (9) Classification: Internal powered Equipment Type B
- (10) Pressurisation: automatic air inflation by an air pump
- (11) Deflation: Automatic exhaust
- (12) Automatic power off: To be automatically cut off after 2 minutes of not being used to save energy.
- (13) Battery life: Approx. 3 months with 3 times usage per day
- (14) Environmental temperature for using: 10 ~ 40°C
- (15) Environmental temperature for storage: -20 ~ 60°C
- (16) Environmental humidity for using: < 90%
- (17) Environmental humidity for storage: < 95%
- (18) Transport condition:
 - Atmospheric pressure range: 80 kPa ~ 105 kPa
 - Humidity range: Less than 95%
 - Ambient temperature range: -20 ~ 60°C

This is a Class IIa medical device and fulfils the provisions of the medical devices directive 93/42/EEC. Blood pressure measurements 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 American National Standard, Electronic or automated sphygmomanometers.

Return Policy

Product may be returned if faulty, please contact the Retailer or Kinetik directly if you're experiencing issues with your product. This does not affect your statutory rights. Please note the retailer's own return policy may still be valid, contact the retailer for more information.

Warning and safety notices

- Regarding the application of the CUFF and its pressurization on any limb where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present because of temporary interference to blood flow and could result in injury to the PATIENT;
- Regarding the application of the CUFF and its pressurization on the arm on the side of a mastectomy;
- Regarding the information that pressurization of the CUFF can temporarily cause loss of function of simultaneously used monitoring ME EQUIPMENT on the same limb;
- Regarding the need to check (for example, by observation of the limb concerned) that operation of the AUTOMATED SPHYGMOMANOMETER does not result in prolonged impairment of the circulation of the blood of the PATIENT.
- When the arm is oppressed by air pressure, please loosen CUFF or remove batteries.
- Not touch the patient and battery output simultaneously when measurement.
- Warning: not allow to use the luer connectors. If Luer lock connectors are used in the construction of tubing, there is a possibility that they might be inadvertently connected to intravascular fluid systems, allowing air to be pumped into a blood vessel.

EMC Table

Guidance and manufacture's declaration

Guidance and manufacture's declaration – electromagnetic emission		
The Digital Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the Digital Blood Pressure Monitor should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The Digital Blood Pressure Monitor use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	The Digital Blood Pressure Monitor is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Guidance and manufacture's declaration – electromagnetic immunity			
The Digital Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of Digital Blood Pressure Monitor should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	3V/m	3V/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacture's declaration – electromagnetic immunity	
The Digital Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of Digital Blood Pressure Monitor should assure that it is used in such an environment.	

EMC Table

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Radiated RF IEC 61000-4-3	3V/m 80 MHz to 2.5 GHz	3V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Digital Blood Pressure Monitor, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance  80 MHz to 800 MHz  800 MHz to 2.5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey^a, should be less than the compliance level in each frequency range.^b Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
^aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Digital Blood Pressure Monitor is used exceeds the applicable RF compliance level above, the Digital Blood Pressure Monitor should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Digital Blood Pressure Monitor. ^bOver the frequency range 150 KHz to 80 MHz, field strengths should be less than 3V/m.			

EMC Table

Recommended separation distances between portable and mobile RF communications equipment and the Digital Blood Pressure Monitor.		
The Digital Blood Pressure Monitor is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Digital Blood Pressure Monitor can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Digital Blood Pressure Monitor as recommended below, according to the maximum output power of the communications equipment.		
output power of transmitter	Separation distance according to frequency of transmitter (m)	
	80 MHz to 800 MHz 	800 MHz to 2.5GHz 
0.01	0.117	0.233
0.1	0.369	0.738
1	1.167	2.333
10	3.689	7.379
100	11.667	23.333
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.		

Frequently Asked Questions

○ What is the difference between systolic and diastolic pressure?

Your heart is just like a pump which works all the time to make the blood flow through all blood vessels. Blood pressure measures the force on the wall of the blood vessels caused by the pressure of the blood.

Systolic pressure is the pressure of the blood when your heart beats to pump blood out.

Diastolic pressure is the pressure of the blood when your heart rests in between beats. This reflects how strongly your arteries are resisting blood flow.

○ What if I want to retest?

If you want to measure again, just press the START/STOP button twice. Leave at least three minutes between measurements to allow blood circulation to the arm to return to normal. Do not measure your blood pressure too many times in one session as it may cause discomfort in the arm.

○ When is the best time to test my blood pressure?

Blood pressure fluctuates constantly during the day. Its value in the daytime is higher than in the evening with the lowest level being at midnight. The pressure begins to rise again at 3:00am and reaches its highest level any time during the day – so it is impossible to get a consistent reading. For this reason, please take your measurements at the same time of day. Relax for 10-20 minutes before taking a measurement and remain relaxed whilst measuring. Do not move or talk during measurement, as this will affect the accuracy.

Measure one hour after eating and avoid measuring immediately after bathing. Measure one hour after smoking or drinking alcohol/coffee.

Frequently Asked Questions

○ **Do I need to test at the same time, every time?**

We recommend that measurements are taken at the same time, under the same conditions and in the same position each time because of the way your blood pressure constantly fluctuates depending on the time of day. This will help you to keep a more accurate record over time and reduce any possible variances to your readings.

○ **What if I get an error or abnormal reading?**

Please see the troubleshooting guide at the end of this section

○ **How do I know when I need to change the batteries?**

When the Low Battery Indicator is displayed, new batteries must be inserted immediately to ensure accurate results. Do not mix old and new batteries or different types of batteries.

○ **Can I use rechargeable batteries?**

No. You can only use standard alkaline batteries. Please dispose of batteries safely after use using your local battery re-cycling facility.

Abnormality & Troubleshooting

Error Indicators

○ The following symbol will appear on the display when measuring abnormally.

Symbol	Cause	Correction
	Cuff not fitted correctly or air leakage detected.	Wrap the cuff correctly and tightly ensuring the connection between the air plug and the unit is good.
	Movement detected during measurement.	Do not move your arm or body, refrain from talking.
	Low battery.	Replace batteries with new ones.

Possible Problems & Solutions

Problem	Solution
No power.	Replace batteries with new ones.
Display is blank.	Check the batteries are inserted correctly observing the correct polarity.
Measurement values appear too high or too low.	Blood pressure varies constantly. Many factors including stress, time of day and how you wrap the cuff may affect your blood pressure. Review the section "Setting up your Blood Pressure Monitor".

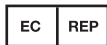
Maintenance

1. Do not drop this blood pressure monitor or subject it to strong impact.
2. Avoid exposure to high temperatures, direct sunlight and contact with water.
3. If the monitor is stored at temperatures below freezing, do not use immediately. Leave at room temperature for at least one hour before use.
4. Do not attempt to disassemble the monitor.
5. Do not leave the batteries in the monitor if it is not in use for a long period of time.
6. This blood pressure monitor is calibrated at the time of manufacture. If the blood pressure monitor is used according to the instructions, periodic recalibration is not required. If at any time you question the accuracy of the measurement, please contact the retailer immediately.
7. Please use only Kinetik branded cuffs and accessories with this product.



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Share Info Consultant Service
LLC Repräsentanzbüro

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Made in PRC

REF BPx1A



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Blood Pressure Record Table

Please log the date, time and your SYS (systolic) and DIA (Diastolic) blood pressure levels.
We recommend you share this information with your Doctor

Name:					
Date	Time	SYS (Systolic)	DIA (Diastolic)	Pulse Rate	Comments

Explanation of symbols on unit



Read the instructions (actual symbol colours are white on a blue background).



This symbol indicates that this product is a Type BF device.



Symbol for "Environment Protection" – Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice.



Symbol for "Manufacturer".



This product complies with MDD93/42/EEC requirements.



Symbol for "European Representative".



Keep Dry.



Model Reference.