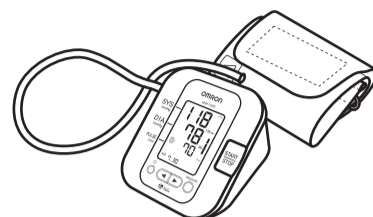


OMRON

Automatic Blood Pressure Monitor

Model HEM-7200
Instruction Manual

5325397-5B

Introduction

Thank you for purchasing the OMRON HEM-7200 Automatic Blood Pressure Monitor.

The OMRON HEM-7200 is a compact, fully automatic blood pressure monitor, operating on the oscillometric principle. It measures your blood pressure and pulse rate simply and quickly. For comfortable controlled inflation without the need of pressure pre-setting or re-inflation the device uses its advanced "IntelliSense" technology.

Please read this instruction manual thoroughly before using the unit. Please keep for future reference. For specific information about your own blood pressure, CONSULT YOUR DOCTOR.

Important Safety Information

Consult your doctor prior to using in pregnancy or if diagnosed with arrhythmia or arteriosclerosis.

Please read this section carefully before using the unit.

⚠Warning:

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

(General Usage)

- Always consult your doctor. Self-diagnosis of measurement results and self-treatment are dangerous.
- People with severe blood flow problems, or blood disorders, should consult a doctor before using the unit, as cuff inflation can cause internal bleeding.
- (AC Adapter Usage)
 - Never plug in or unplug the power cord from the electric outlet with wet hands.

(Battery Usage)

- If battery fluid should get in your eyes, immediately rinse with plenty of clean water. Consult a doctor immediately.

⚠Caution:

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.

(General Usage)

- Do not leave the unit unattended with infants or persons who cannot express their consent.
- Do not use the unit for any purpose other than measuring blood pressure.
- Do not disassemble the unit or arm cuff.
- Use only the approved arm cuff for this unit. Use of other arm cuffs may result in incorrect measurement results.

(AC Adapter Usage)

- Use only the original AC adapter (optional) designed for this unit. Use of unsupported adapters may damage and/or may be hazardous to the unit.

(Battery Usage)

- If battery fluid should get on your skin or clothing, immediately rinse with plenty of clean water.

(AC Adapter Usage)

- Do not use the AC adapter if the unit or the power cord is damaged. Turn off the power and unplug the power cord immediately.

(Battery Usage)

- If battery fluid should get on your skin or clothing, immediately rinse with plenty of clean water.

(AC Adapter Usage)

- Use only four "AA" alkaline or manganese batteries with this unit. Do not use other types of batteries.

(Battery Usage)

- Do not use new and used batteries together.

(General Precautions)

- Do not apply strong shocks and vibrations to or drop the unit and arm cuff.

- Do not take measurements after bathing, drinking alcohol, smoking, exercising or eating.

- Do not forcibly bend the arm cuff or bend the air tube excessively.

- When removing the air tube, pull on the air plug at the connection with the main unit not the tube itself.

- Do not inflate the arm cuff when it is not wrapped around your arm.

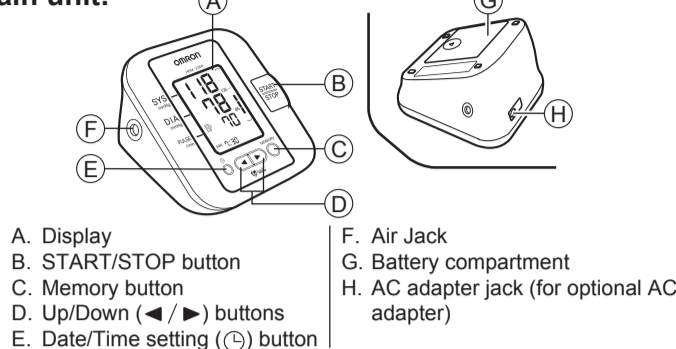
- Do not wash the arm cuff or immerse it in water.

- Read and follow the "Important information regarding Electro Magnetic Compatibility (EMC)" in the Technical Data Section.

- Read and follow the "Correct Disposal of This Product" in the Technical Data Section when disposing of the device and any used accessories or optional parts.

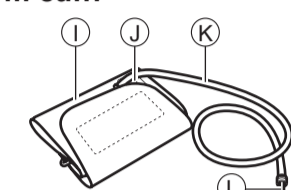
1. Overview

Main unit:



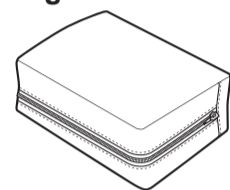
- A. Display
B. START/STOP button
C. Memory button
D. Up/Down (▲/▼) buttons
E. Date/Time setting (⊙) button
F. Air Jack
G. Battery compartment
H. AC adapter jack (for optional AC adapter)

Arm cuff:

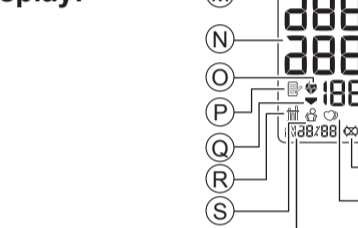


- I. Arm cuff (Medium cuff: arm circumference 22-32cm)
J. Coloured Marker
K. Air tube
L. Air plug

Storage case:



Display:

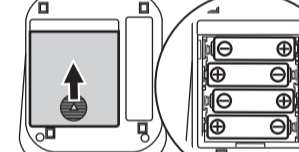


- M. Systolic blood pressure
N. Diastolic blood pressure
O. Heartbeat symbol
P. (Flashes during measurement)
Q. Memory symbol
R. Deflation symbol
S. Average value symbol
T. Movement error symbol
U. Blood pressure level indicator
V. Pulse display
W. Battery low symbol
X. Irregular heartbeat symbol

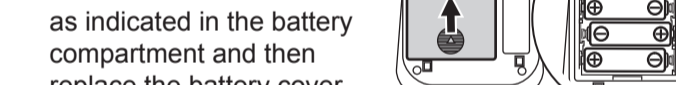
2. Preparation

2.1 Installing/Replacing the Batteries

1. Remove the battery cover.



2. Insert four "AA" batteries as indicated in the battery compartment and then replace the battery cover.



- Make sure that the air tube is not wrapped around other parts of your body when taking measurements at night. This could result in injury when the air pressure in the air tube is increased.
- Do not leave the cuff wrapped on the arm if any used accessories or optional parts are attached.
- Do not inflate the arm cuff over 299 mmHg.
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
- Do not operate the unit in a moving vehicle (car, airplane).
- To inflate the cuff manually, refer to Section 3.3. If the cuff is over inflated, it can cause internal bleeding.

(AC Adapter Usage)

- Use only the original AC adapter (optional) designed for this unit. Use of unsupported adapters may damage and/or may be hazardous to the unit.

(Battery Usage)

- Do not use the AC adapter if the unit or the power cord is damaged. Turn off the power and unplug the power cord immediately.

(Battery Usage)

- If battery fluid should get on your skin or clothing, immediately rinse with plenty of clean water.

(AC Adapter Usage)

- Use only four "AA" alkaline or manganese batteries with this unit. Do not use other types of batteries.

(Battery Usage)

- Do not use new and used batteries together.

(General Precautions)

- Do not apply strong shocks and vibrations to or drop the unit and arm cuff.

- Do not take measurements after bathing, drinking alcohol, smoking, exercising or eating.

- Do not forcibly bend the arm cuff or bend the air tube excessively.

- When removing the air tube, pull on the air plug at the connection with the main unit not the tube itself.

- Do not inflate the arm cuff when it is not wrapped around your arm.

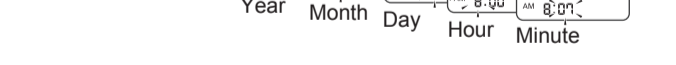
- Do not wash the arm cuff or immerse it in water.

- Read and follow the "Important information regarding Electro Magnetic Compatibility (EMC)" in the Technical Data Section.

- Read and follow the "Correct Disposal of This Product" in the Technical Data Section when disposing of the device and any used accessories or optional parts.



- Push ▲ or ▼ buttons to change.
- Push ⊙ button to confirm. Next setting appears.



3. Press the START/STOP button to store the setting.

Notes:

- If the batteries have been removed for 30 seconds or more, the date and time setting will need to be reset.

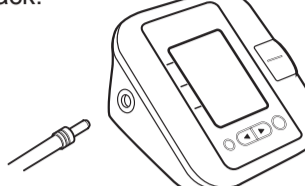
- When the date and time are not set, "----" appears during or after measurement.

3. Using the Unit

3.1 Applying the Arm Cuff

Remove tight-fitting clothing or tight rolled up sleeve from your upper arm. Do not place the cuff over thick clothes.

1. Insert the air plug into the air jack.



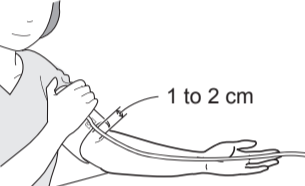
2. Put your arm through the cuff loop.



3. Position the arm correctly.



The bottom edge of the cuff should be 1 to 2 cm above the elbow. Marker (arrow under tube) is centred on the middle of your inner arm. Close the fabric fastener FIRMLY.



Notes:

- When you take a measurement on the right arm, air tube will be at the side of your elbow. Be careful not to rest your arm on the air tube.

- The blood pressure can differ between the right arm and the left arm, and therefore also the measured blood pressure values can be different. Omron recommends to always use the same arm for measurement. If the values between the two arms differ substantially, please check with your doctor which arm to use for your measurement.

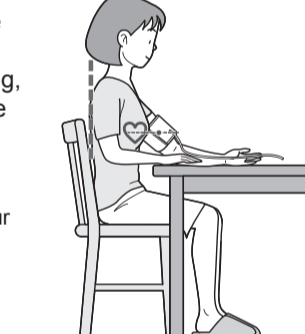
3.2 How to Sit Correctly

To take a measurement, you need to be relaxed and comfortably seated, under comfortable room temperature. No eating, smoking or exercising 30 minutes before taking a measurement.

- Sit on a chair with your feet flat on the floor.

- Sit upright with your back straight.

- The cuff should be at the same level as your heart.



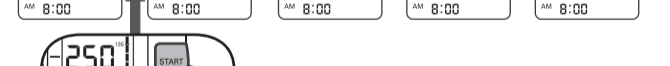
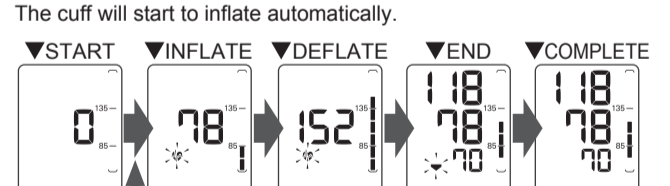
3.3 Taking a Reading

Notes:

- To cancel a measurement, press the START/STOP button to turn off the unit and to release the air in the arm cuff.

- Remain still while taking a measurement.

1. Press the START/STOP button. The cuff will start to inflate automatically.



If your systolic pressure is more than 220 mmHg

After the cuff starts to inflate, press and hold the START/STOP button until the monitor inflates 30 to 40 mmHg higher than your expected systolic pressure.

Notes:

- The monitor will not inflate above 300 mmHg.

- Do not apply more pressure than necessary.

Note: Wait 2-3 minutes before taking another blood pressure measurement. Waiting between readings allows the arteries to return to the condition prior to taking the blood pressure measurement.

⚠Warning:

Self-diagnosis of measured results and treatment are dangerous. Please follow the instructions of your doctor.

2. Remove the arm cuff.

3. Press the START/STOP button to turn off the monitor. The monitor automatically stores the measurement in its memory. It will automatically turn off after five minutes.

Important:

- Recent research suggests that the following values can be used as a guide to high blood pressure for measurements taken at home.

Systolic Blood Pressure	Above 135 mmHg
Diastolic Blood Pressure	Above 85 mmHg

This criteria is for home blood pressure measurement.

- Your blood pressure monitor includes an irregular heartbeat feature. Irregular heartbeats can influence the results of the measurement. The irregular heartbeat algorithm automatically determines if the measurement is usable or needs to be repeated. If the measurement results are affected by irregular heartbeats but the result is valid, the result is shown together with the irregular heartbeat symbol (⊙). If the irregular heartbeats cause the measurement to be invalid, no result is shown. If the irregular heartbeat symbol (⊙) is shown after you have taken a measurement, repeat the measurement. If the irregular heartbeat symbol (⊙) is shown frequently, please make your doctor aware of it.

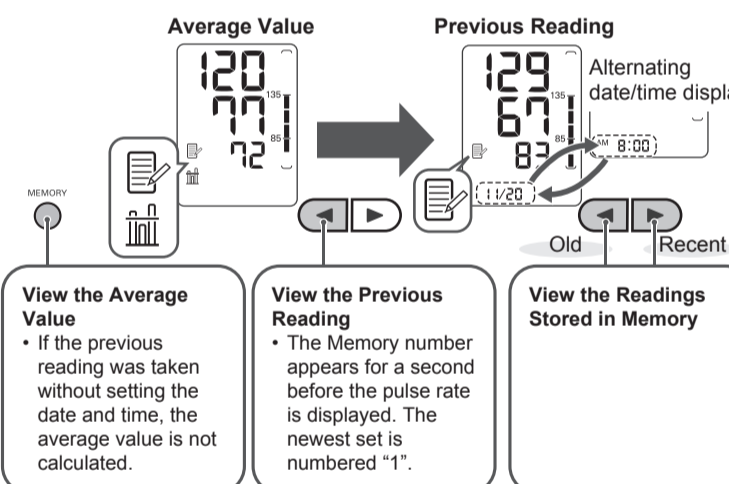
3.4 Using the Memory Function

The monitor automatically stores the result up to 60 sets. It can also calculate an average reading based on the measurements from the last three readings taken within 10 minutes. If there are only two readings in memory for that period, the average will be based on two readings. If there is one reading in memory for that period, the average will be based on one reading.

Notes:

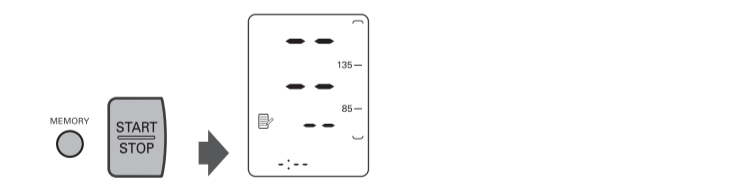
- If the memory is full, the monitor will delete the oldest readings.

- When viewing the reading taken without setting the date and time, "----" is displayed instead of the date and time.



To delete all the values stored in memory

When the memory symbol (⊙) appears, first press the Memory button. Then while holding it down, press the START/STOP button simultaneously for about 2-3 seconds.



Note: You cannot partially delete the stored readings.

4. Troubleshooting and Maintenance

4.1 The Icons and Error Messages

Error Display	Cause	Remedy
⊙	Irregular or weak pulses are detected.	Remove the arm cuff. Wait 2-3 minutes and then take another measurement. Repeat the steps in section 3.3. If this error continues to appear, contact your doctor.
⊙	Movement during measurement.	Carefully read and repeat the steps in section 3.3.
⊙	The batteries are low.	You should replace them with new ones ahead of time. Refer to section 2.1.
⊙	The batteries are exhausted.	You should replace them with new ones at once. Refer to section 2.1.
⊙	Cuff is under inflated.	Carefully read and repeat the steps listed under section 3.3.
⊙	Movement during measurement.	Repeat measurement. Remain still and do not talk during measurement. Refer to section 3.3.
⊙	Air plug disconnected.	Insert the air plug securely. Refer to section 3.1.
⊙	Arm cuff not applied correctly.	Apply the arm cuff correctly. Refer to section 3.1.
⊙	Clothing is interfering with the arm cuff.	Remove any clothing interfering with the arm cuff. Refer to section 3.1.
⊙	Air is leaking from the arm cuff.	Replace cuff with new one. Refer to Chapter 5.
⊙	The arm cuff was inflated above 299 mmHg when inflating the cuff manually.	Do not inflate the arm cuff above 299 mmHg. Refer to section 3.3.
⊙	Device error.	Contact your OMRON retail outlet or distributor.

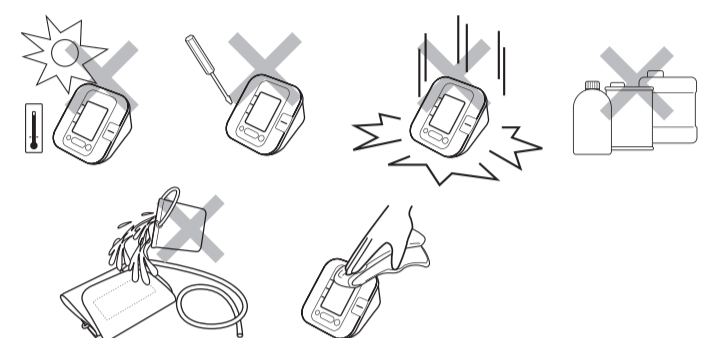
4.2 Troubleshooting

Problem	Cause	Remedy
The reading is extremely low (or high).	Arm cuff not applied correctly.	Apply the arm cuff correctly. Refer to section 3.1.
	Movement or talking during measurement.	Remain still and do not talk during measurement. Refer to section 3.3.
	Clothing is interfering with the arm cuff.	Remove any clothing interfering with the arm cuff. Refer to section 3.2.
Arm cuff pressure does not rise.	The air tube is not securely connected into the main unit.	Make sure that the air tube is connected securely. Refer to section 3.1.
	Air is leaking from the arm cuff.	Replace the arm cuff with a new one. Refer to Chapter 5.
Arm cuff deflates too soon.	The arm cuff is loose.	Apply the cuff correctly so that it is firmly wrapped around the arm. Refer to section 3.1.
Cannot measure or readings are too low or too high.	The arm cuff has not been inflated sufficiently.	Inflate the cuff so that it is 30 to 40 mmHg above your previous measurement result. Refer to section 3.3.
Nothing happens when you press the buttons.	The batteries are empty.	Replace the batteries with new ones. Refer to section 2.1.
	The batteries have been inserted incorrectly.	Insert the batteries with the correct (+/-) polarity. Refer to section 2.1.
Other problems.	Press the START/STOP button and repeat measurement.	If the problem continues, try replacing the batteries with new ones. If this still does not solve the problem, contact your OMRON retail outlet or distributor.

4.3 Maintenance

To protect your unit from damage, please observe the following:

- Do not subject the main unit and the cuff to extreme temperatures, humidity, moisture or direct sunlight.
- Do not inflate the arm cuff over 299 mmHg.
- Do not disassemble the unit.
- Do not subject the unit to strong shocks or vibrations (for example, dropping the unit on the floor).
- Do not use volatile liquids to clean the main unit. The unit should be cleaned with a soft, dry cloth.
- Use a soft, moistened cloth and soap to clean the arm cuff.
- Do not wash the arm cuff or immerse it in water.
- Do not use petrol, thinners or similar solvents to clean the arm cuff.



- Do not carry out repairs of any kind yourself. If a defect occurs, consult your local authorised OMRON distributor or dealer.

Calibration and Service

- The accuracy of this blood pressure monitor has been carefully tested and is designed for a long service life.
- It is generally recommended to have the unit inspected every two years to ensure correct functioning and accuracy. Please consult your local authorised OMRON distributor or dealer.

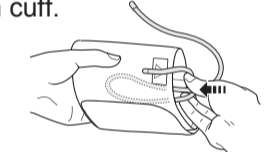
4.4 Storage

Keep the unit in its storage case when not in use.

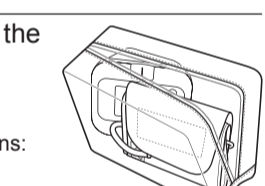
1. Unplug the air tube from the air connector.

2. Gently fold the air tube into the arm cuff.

Note: Do not bend the air tube excessively.



3. Place the arm cuff and main unit in the storage case.



Do not store the unit in the following situations:

- If the unit is wet.
- Locations exposed to extreme temperatures, humidity, direct sunlight, dust or corrosive vapours.
- Locations exposed to vibrations, shocks or where it will be at an angle.

5. Optional Parts

Medium Arm Cuff Arm circumference 22 - 32 cm

Large Arm Cuff Arm circumference 32 - 42 cm

AC Adapter "R"



Using the Optional AC Adapter

- Insert the AC adapter plug into the AC adapter jack on the rear side of the main unit.
- Plug the AC adapter into an electrical outlet.

To disconnect the AC adapter, unplug the AC adapter from the electrical outlet first and then remove the AC adapter plug from the main unit.

6. Technical Data

Product Description	Automatic Blood Pressure Monitor
Model	HEM-7200
Display	LCD Digital Display
Measurement Method	Oscillometric method
Measurement Range	Pressure: 0 mmHg to 299 mmHg Pulse: 40 to 180/min
Accuracy	Pressure: ±3 mmHg Pulse: ±5% of display reading
Inflation	Fuzzy-logic controlled by electric pump
Deflation	Automatic pressure release valve
Pressure Detection	Capacitive pressure sensor
Memory	60 Measurements with date and time
Rating	DC6V ≙ 4W
Power Source	4 "AA" batteries 1.5V or AC adapter (optional)
Battery Life	Capacity of new alkaline batteries is approx. 1500 measurements
Applied Part	⊙ = Type B
Protection Against Electric Shock	Internally powered ME equipment (When using only the batteries)
	⊙ = Class II ME equipment (Optional AC adapter)
Operating temperature/ Humidity	+10°C to +40°C / Maximum: 30 to 90% RH
Storage temperature/ Humidity/ Air pressure	-20°C to +60°C / Maximum: 10 to 95% RH / 700-1060 hPa
Console Weight	Approximately 340g without batteries
Cuff Weight	Approximately 120g
Outer Dimensions	Approximately 123 (w) mm × 85 (h) mm × 141 (d) mm
Cuff Dimensions	Approximately 146 mm × 446 mm (Medium cuff: arm circumference 22 to 32 cm)
Cuff Material	Nylon and polyester
Package Content	Main unit, cuff, instruction manual, storage case, battery set

Notes:

- Subject to technical modification without prior notice.
- Disposal of this product and used batteries should be carried out in accordance with the national regulations for the disposal of electronic products.

Please read this instruction manual carefully before using the device.

CE0197

- This device fulfils the provisions of EC directive 93/42/EEC (Medical Device Directive).
- This blood pressure monitor is designed according to the European Standard EN1060, Noninvasive sphygmomanometers Part 1: General Requirements and Part 3: Supplementary requirements for electromechanical blood pressure measuring systems.

Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PCs and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation.

Medical devices should also not interfere with other devices.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the CEN60601-1-2:2007 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device manufactured by OMRON HEALTHCARE conforms to this EN60601-1-2:2007 standard for both immunity and emissions.

Nevertheless, special precautions need to be observed:

- Do not use mobile (cellular) telephones and other devices, which generate strong electrical or electromagnetic fields, near the medical device. This may