

## Wrist Blood Pressure Monitor

### Model RS6 Instruction Manual



IM-HEM-6221-E-01-08/2012  
1883267-9A

#### Introduction

Thank you for purchasing the OMRON RS6 Wrist Blood Pressure Monitor.

The OMRON RS6 is a compact and easy to use 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.

#### Intended Use

This product is designed to measure the blood pressure and pulse rate of people within the range of the designated wrist cuff, following the instructions in this instruction manual.

It is mainly designed for general household use. Please read the Important Safety Information in this instruction manual before using the unit.

**⚠ 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 Use)

- 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.

#### (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 Use)

- 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 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 disassemble the unit or wrist cuff.

- Do not operate the unit in a moving vehicle (car, airplane).

#### (Battery Usage)

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

- Use only two "AAA" alkaline (LR03) batteries with this unit. Do not use other types of batteries.

- Do not insert the batteries with their polarities incorrectly aligned.

- Replace old batteries with new ones immediately. Replace both batteries at the same time.

- Remove the batteries if the unit will not be used for three months or more.

- Do not use new and used batteries together.

#### General Precautions

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

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

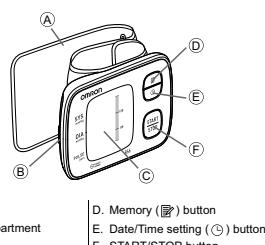
- Do not inflate the wrist cuff when it is not wrapped around your wrist.

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

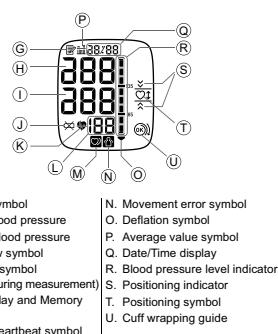
- Read and follow the "Correct Disposal of This Product" in the Technical Data Section when disposing of the device and any used accessories or optional parts.

## 1. Overview

### Main unit:



### Display:



## 2. Preparation

### 2.1 Installing/Replacing the Batteries

#### 1. Remove the battery cover.



#### 2. Insert two 1.5V "AAA" alkaline (LR03) batteries as indicated in the battery compartment and then replace the battery cover.



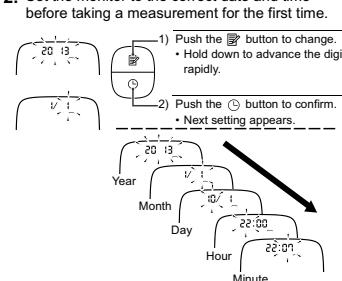
Notes:  
• If the battery low symbol (⚡) appears on the display, turn off the unit then replace both batteries at the same time.  
• The measurement values continue to be stored in memory even after the batteries are replaced.

Disposal of used batteries should be carried out in accordance with the national regulations for the disposal of batteries.

### 2.2 Setting the Date and Time

#### 1. Press the ⌚ button.

#### 2. Set the monitor to the correct date and time before taking a measurement for the first time.



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

Notes:  
• If the batteries have been removed, the date and time setting will need to be reset.  
• If the date and time are not set, ":-:-" appears during or after measurement.

## 3. Using the Unit

### 3.1 Applying the Wrist Cuff

Do not apply over clothing.

#### 1. Put your arm through the cuff loop.

Your palm should face upward.

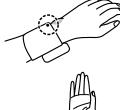


#### 2. Wrap the wrist cuff around your wrist.

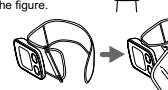
Wrap the wrist cuff securely around the wrist for taking accurate measurements.



Make sure that the wrist cuff does not cover the protruding part of the wrist bone (ulna) on the outside of the wrist.



Notes:  
• You can take a measurement on either your left or right wrist.  
• If the wrist cuff comes off, assemble as shown in the figure.



### 3.2 How to Sit Correctly

To take a measurement, you need to be relaxed and comfortably seated, under comfortable room temperature. No bathing, drinking alcohol or caffeine, smoking, exercising or eating 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.

Relax your wrist and hand. Do not bend your wrist back, clinch your fist, or bend your wrist forward.



### 3.3 Taking a Reading

#### Notes:

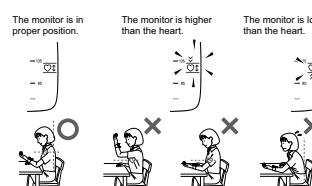
- To cancel a measurement, press the START/STOP button at any time during measurement.
- Remain still while taking a measurement.

#### 1. Press the START/STOP button.

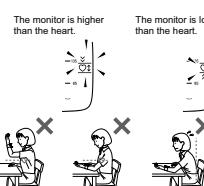
All the symbols appear on the display.

While your position is improper, the Positioning symbol and the Positioning indicator flash, when you are in proper position the Positioning symbol lights on the display.

The monitor is in proper position.



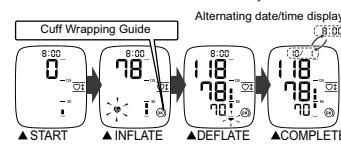
The monitor is higher than the heart.



The monitor is lower than the heart.



After the Positioning symbol lights for more than 2 seconds, the wrist cuff will start to inflate automatically.



## Cuff Wrapping Guide

The Cuff Wrapping Guide is a unique feature that indicates if the cuff is not wrapped tightly enough around the wrist. Even when the (⌚) is displayed, a blood pressure reading will be taken.

Note: This reading is NOT reliable due to the incorrect wrapping of the cuff. Please wrap the cuff again, taking care to wrap it correctly and take the measurement again. When the (⌚) is displayed, the cuff is correctly wrapped tightly enough on the wrist and the reading is accurate and reliable.

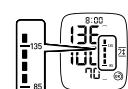
#### 2. Undo the wrist cuff and remove the unit.

#### 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 two 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.



- If you move during measurement, the movement error symbol (⌚) will appear on the display. Keep still and repeat the measurement.

Notes:  
• 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.

- 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 physician which arm to use for your measurement.

#### ⚠ Warning:

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

#### 3.4 Setting the Positioning Sensor

#### 1. Press and hold the ⌚ button to reset the Positioning sensor. The Positioning sensor is set "on" as default.



#### 2. Press the START/STOP button to store the setting.

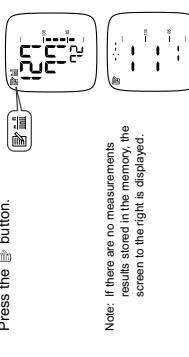
### 3.5 Using the Memory Function

The monitor automatically stores the reading up to 90 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:

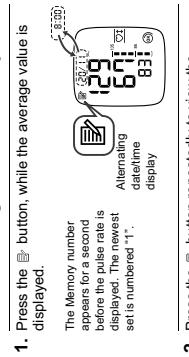
- If the memory is full, the monitor will delete the oldest readings.
- When viewing the reading taken without setting the date and time,  $\text{---}$  is displayed instead of the date and time.

#### To View the Average Value

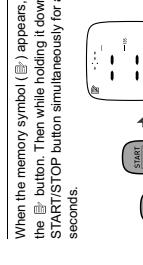


Note: If there are no measurements results stored in the memory, the screen to the right is displayed.

#### To View the Readings 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.

### 4.2 Troubleshooting

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.

#### 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 authorised OMRON dealer or the OMRON Customer Service at the address given on the packaging or attached literature.

#### 5. Technical Data

Product Description	Wrist Blood Pressure Monitor
Model	OMRON RS (HEM-622-E)
Display	LCD Digital Display
Measurement Method	Oscillometric method
Measurement Range	0 to 299 mmHg
Accuracy	±3 mmHg
Pulse	0 to 180 beats/min.
Pressure	-40 to +3 mmHg
Pulse	±5% of display reading
Inflation	Automatic inflation by pump
Deflation	Automatic rapid deflation
Power Source	90 Measurements
Battery Life	2 x 1.5V (LR03, AAA alkaline batteries)
	Approx. 300 measurements with new alkaline batteries at a room temperature of 23°C
	= Type B
Applied Part	Internally powered ME equipment
Protection Against Electric Shock	Operating temperature/ +10 to +40°C / Maximum: 30 to 85% RH
Humidity	Storage Temperature/ -20 to +60°C / Maximum: 10 to 95% RH / 700 to 1000Pa
Console Weight	Approximately 35 g without batteries
Outer Dimensions	Approximately 37 (w) mm x 14 (d) mm (without the wrist cuff)
Measurable circumference	Approximately 13.5 to 21.5 cm
Cuff Material	Nylon and polyester
Package Content	Main unit, storage case, battery set, instruction manual, guarantee card, blood pressure pass

Manufacturer  
OMRON HEALTHCARE Co., Ltd.  
53, Kunitomo, Terao-cho, Mikita, Kyoto,  
617-0002 JAPAN

EU Representative  
OMRON HEALTHCARE EUROPE B.V.  
Scorpius 33, 2132 LR Hoofddorp  
THE NETHERLANDS  
www.omron-healthcare.com

Production Facility  
OMRON DALIAN CO., LTD.  
Dalian, China

Subsidiary  
OMRON MEDIZINTECHNIK U.K. LTD.  
Oxford Drive, Fox Mill, Milton Keynes, MK15 0DG  
U.K.

OMRON MEDIZINTECHNIK HANDELSGESELLSCHAFT mbH  
John-Dührer-Str. 81a 88163 Mittenheim, GERMANY  
www.omron-medizintechnik.de

OMRON SANTE FRANCE SAS  
14, rue Lebonne, 93361 Rosny-sous-Bois  
Cedex, FRANCE

Made in China

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 EN 1060. Non-invasive sphygmomanometers Part 1: General Requirements and Part 3: Supplementary requirements for electromechanical blood pressure measuring systems.

This OMRON product is produced under the strict quality system of OMRON blood pressure monitors, which is the pressure Sensor, is produced in Japan.



The unit should be cleaned with a soft, dry cloth.

Use a soft, moistened cloth and neutral soap to clean the cuff.

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

Fold the cuff into the storage case.

Error Display	Cause	Remedy
	Irregular heartbeats are detected.	Remove the wrist 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 at least 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.
<b>E 1</b>	Wrist cuff not applied correctly.	Repeat Measurement while remaining still and refraining from taking during the measurement. Refer to section 3.1.
<b>E 3</b>	Movement during measurement.	Apply the wrist cuff correctly and repeat measurement while remaining still and refraining from taking during the measurement. Refer to section 1 and 2.3.
<b>E 4</b>	Wrist cuff not applied correctly, or movement during measurement.	Apply the wrist cuff correctly and repeat measurement while remaining still and refraining from taking during the measurement. Refer to section 3.1.
<b>E 5</b>	Arm position changed during measurement.	Remain still until the measurement is complete. Refer to section 3.3.
<b>E r</b>	Device error.	Contact your OMRON retail outlet or distributor.

Note: The irregular heartbeat symbol ( ) and the movement error symbol ( ) may also be displayed with error messages.