Product includes:
El producto incluye:
Thank you for purchasing the OMRON® BP785N Blood Pressure Monitor.

Your new blood pressure monitor uses the oscillometric method of blood pressure measurement. This means the monitor detects your blood movement through your brachial artery and converts the movements into a digital reading. An oscillometric monitor does not need a stethoscope so the monitor is simple to use.

**Intended Use**

This device is a digital monitor intended for use in measuring blood pressure and pulse rate in adult patient population who can understand this instruction manual with the arm circumference range printed on the arm cuff. The device detects the appearance of irregular heartbeats during measurement and gives a warning signal with the measurement result.

**Important Safety Information**

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Please read this instruction manual thoroughly before using the device. Please keep for future reference. For specific information about your own blood pressure, CONSULT YOUR PHYSICIAN.
Important Safety Information

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

(General Usage)
⚠️ DO NOT adjust medication based on measurement results from this blood pressure monitor. Take medication as prescribed by your physician. Only a physician is qualified to diagnose and treat High Blood Pressure.
⚠️ The monitor is not intended to be a diagnostic device.
⚠️ Consult your physician before using the device for any of the following conditions: common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation, arterial sclerosis, poor perfusion, diabetes, age, pregnancy, pre-eclampsia, renal diseases.
Note that PATIENT motion, trembling, shivering may affect the measurement reading.
⚠️ Do not use the device on the injured arm or the arm under medical treatment.
⚠️ Do not apply the arm cuff on the arm while being on an intravenous drip or blood transfusion.
⚠️ Consult your physician before using the device on the arm with an arterio-venous (A-V) shunt.
⚠️ Do not use the device with other medical electrical (ME) equipment simultaneously.
⚠️ Do not use the device in the area the HF surgical equipment, MRI, or CT scanner exists, or in the oxygen rich environment.
⚠️ The air tube or the AC adapter cable may cause accidental strangulation in infants.
⚠️ Contains small parts that may cause a choking hazard if swallowed by infants.

(AC Adapter Usage)
⚠️ Do not use the AC adapter if the device or the power cord is damaged. Turn off the power and unplug the power cord immediately.
⚠️ Plug the AC adapter into the appropriate voltage outlet. Do not use in a multi-outlet plug.
⚠️ Never plug in or unplug the power cord from the electric outlet with wet hands.
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**
- Always consult your physician. Self-diagnosis of measurement results and self-treatment are dangerous.
- Always consult your physician before using the device for any of the following conditions:
  - If you have had a mastectomy.
  - Do not take measurements more than necessary. It may cause bruising due to blood flow interference.
  - People with severe blood flow problems or blood disorders as cuff inflation can cause bruising.
- Remove the arm cuff if it does not start deflating during the measurement.
- Do not use this device on infants or persons who cannot express their intentions.
- Do not use the device for any purpose other than measuring blood pressure.
- Use only the approved arm cuff for this device. Use of other arm cuffs may result in incorrect measurement results.
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the device. This may result in incorrect operation of the device.
- Do not disassemble the monitor or arm cuff. This may cause an inaccurate reading.
- Do not use in a location with moisture, or a location where water may splash on the device. This may damage the device.
- Do not use the device in a moving vehicle (car, airplane).
- Read “If your systolic pressure is more than 210 mmHg” (page 14) of this instruction manual, if your systolic pressure is known to be more than 210 mmHg. Inflating to a higher pressure than necessary may result in bruising where the cuff is applied.

**AC Adapter Usage**
- Fully insert the power plug into the outlet.
- When disconnecting the power plug from the outlet, do not pull the power cord. Be sure to pull from the power plug safely.
Important Safety Information

⚠ When handling the power cord, take care not to do the following:
- Do not damage.
- Do not tamper with it.
- Do not twist.
- Do not pinch.
- Wipe the dust off from the power plug.
- Unplug monitor when not in use.
- Disconnect the power plug before cleaning.
- Use only an OMRON AC adapter designed for this device. Use of unsupported adapters may damage and/or may be hazardous to the device.

(Battery Usage)
- Do not insert the batteries with their polarities incorrectly aligned.
- Use only 4 "AA" alkaline or manganese batteries with this device. Do not use other types of batteries. Do not use new and used batteries together.
- Remove the batteries if the device will not be used for three months or more.

General Precautions

- Do not forcibly crease the arm cuff or the air tube excessively.
- Do not press the air tube while taking a measurement.
- To unplug the air plug, pull on the air plug at the connection with the monitor, not the tube itself.
- Do not drop the monitor or subject device to strong shocks or vibrations.
- Do not inflate the arm cuff when it is not wrapped around your arm.
- Do not use the device outside the specified environment. It may cause an inaccurate reading.
- Dispose of the device, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.
1. Know Your Device

Open the rear cover page to read the following:
The letter identifiers on the rear cover page correspond to those in the body of this page.

Monitor
A. Air jack
B. Blood pressure color indicator
C. Date/Time setting button
D. USER ID selection switch
E. Display
F. Memory button
G. START/STOP button
H. Up/Down buttons
I. Battery compartment
J. AC adapter jack

Arm cuff
K. Arm cuff (Arm circumference 9" - 17" (22 - 42 cm))
L. Air plug
M. Air tube

Display
N. Memory symbol
O. USER ID symbol
P. Average value symbol
Q. Systolic blood pressure
R. Diastolic blood pressure
S. Heartbeat symbol
(T. Date/Time display
U. TruRead™ symbol
V. Movement error symbol
W. Irregular heartbeat symbol
X. Blood pressure level indicator
Y. Low battery symbol
Z. Deflation symbol
AA. Pulse display / Memory number
1. Know Your Device

1.1 Display Symbols

**Irregular Heartbeat Symbol ( )**
When the monitor detects an irregular rhythm two or more times during the measurement, the irregular heartbeat symbol will appear on the display with the measurement values.
An irregular heartbeat rhythm is defined as a rhythm that is 25% less or 25% more than the average rhythm detected while the monitor is measuring the systolic and diastolic blood pressure.
If the irregular heartbeat symbol displays with your measurement results, we recommend you consult your physician. Follow the directions of your physician.

**Movement Error Symbol ( )**
The movement error symbol is displayed if you move your body during the measurement. Please remove the arm cuff, and wait 2-3 minutes. Take another measurement, remain still during measurement.

**Average Value Symbol ( )**
The average value symbol is displayed when you press and hold the memory button for more than 3 seconds. The most recent average value appears on the display screen.
1. Know Your Device

Blood Pressure Color Indicator
If your Systolic Blood Pressure is 135 mmHg or above and/or the Diastolic Blood Pressure is 85 mmHg or above, the blood pressure color indicator will light in “orange” when the measurement result is displayed. If the results are within the standard range, the blood pressure color indicator will light in “green”.

2013 ESH/ESC Guidelines for the management of arterial hypertension
Definitions of hypertension by office and home blood pressure levels

<table>
<thead>
<tr>
<th></th>
<th>Office</th>
<th>Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Systolic Blood Pressure</td>
<td>≥ 140 mmHg</td>
<td>≥ 135 mmHg</td>
</tr>
<tr>
<td>Diastolic Blood Pressure</td>
<td>≥ 90 mmHg</td>
<td>≥ 85 mmHg</td>
</tr>
</tbody>
</table>

These are from statistical values for blood pressure.

1.2 Before Taking a Measurement

To help ensure an accurate reading, follow these directions:

1. Avoid bathing, drinking alcohol or caffeine, smoking, exercising and eating for 30 minutes before taking a measurement. Rest for at least 15 minutes before taking the measurement.
2. Stress raises blood pressure. Avoid taking measurements during stressful times.
3. Measurements should be taken in a quiet place.
4. Remove tight-fitting clothing from your arm.
5. Sit on a chair with your feet flat on the floor. Rest your arm on a table so that the arm cuff is at the same level as your heart.
6. Remain still and do not talk during the measurement.
7. Keep a record of your blood pressure and pulse readings for your physician. A single measurement does not provide an accurate indication of your true blood pressure. You need to take and record several readings over a period of time. Try to measure your blood pressure at the same time each day for consistency.
2. Preparation

2.1 Battery Installation

1. Remove the battery cover.

2. Insert 4 “AA” batteries as indicated in the battery compartment.

3. Replace the battery cover.

Notes:
- When the low battery symbol ( ) appears on the display, turn the monitor off, then replace all batteries at the same time. Long life alkaline batteries are recommended.
- The measurement values continue to be stored in memory even after the batteries are replaced.
- Dispose of the device, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.
2. Preparation

2.2 Using the AC adapter

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

- DANGER -
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
CAREFULLY FOLLOW THESE INSTRUCTIONS.

⚠️ The power unit (AC Adapter) is intended to be correctly oriented in a vertical or floor mount position.

NOTES:
• Use only the authorized OMRON AC Adapter that came with this monitor.
• We recommend you install the batteries even if the AC Adapter is used. If no batteries are installed, you may need to reset the date and time if the AC Adapter is disconnected. The measurement results will not be deleted.

⚠️ Use only OMRON authorized parts and accessories. Parts and accessories not approved for use with the device may damage the device.
2. Preparation

1. Insert the AC adapter plug into the AC adapter jack on the rear side of the monitor.

2. 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 monitor.
2. Preparation

2.3 Setting the TruRead™ Mode

The TruRead™ Mode takes 3 consecutive measurements. The monitor will inflate, take a measurement, and deflate - 3 times, separated by a short interval between each measurement. The TruRead™ Mode is set “off” by default.

1. Select your USER ID (1 or 2).

2. Press the button.

   The TruRead™ symbol ( ) appears on the display.

   1) Press or buttons to select “on” or “off”.
   2) Press the button to confirm. If “on” is selected the interval setting appears.
   3) Press or buttons to change the interval. It can be set 15, 30, 60, or 120 seconds.
   4) Press the button to confirm. The year flashes on the display.

3. To set the date and time, proceed to section 2.4.

If the date and time are correct, press the START/STOP button to turn the monitor off.
2. Preparation

2.4 Setting the Date and Time

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

1. Press the Date/Time setting ( ⨯ ) button.
   The year flashes on the Date/Time display.

2. Push \ or \ button to change the year.
   Push ( ⨯ ) button to confirm the year and then the month flashes. Repeat the same steps to change the month, day, hour, and minute.

3. Press the START/STOP button to turn the monitor off.

Notes:
- If the batteries have been replaced, 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 Device

3.1 Applying the Arm Cuff

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

1. Insert \( \textcolor{blue}{L} \) the air plug into \( \textcolor{red}{A} \) the air jack securely.

2. Apply the arm cuff to your left upper arm.

The bottom edge of the arm cuff should be \( \textcolor{green}{a} \) 1/2 inch (1 to 2 cm) above the elbow. \( \textcolor{magenta}{M} \) Air tube is on the inside of your arm and aligned with your middle finger.


Notes:
- When you take a measurement on the right arm, the 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 the measured blood pressure values can be different. OMRON recommends to always use the same arm for measurement. If the values between both arms differ substantially, please check with your physician which arm to use for your measurements.
3.2 How to Sit Correctly

To take a measurement, you need to be relaxed and comfortably seated, under comfortable room temperature. Avoid 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. ---
- Sit with your back and arm being supported.
- The arm cuff should be placed on your arm at the same level as your heart. ---

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3. Using the Device

3.3 Taking a Measurement

Notes:
• To stop the measurement, press the START/STOP button once to deflate the arm cuff.
• Remain still and quiet while taking a measurement.

The monitor is designed to take measurements and store the measurement values in the memory for 2 people using USER ID 1 and USER ID 2.

Using the Single Mode

1. Select your USER ID (1 or 2).

2. Press the START/STOP button.

If your systolic pressure is more than 210 mmHg

After the arm 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 299 mmHg.

⚠️ Inflating to a higher pressure than necessary may result in bruising where the arm cuff is applied.
3. Using the Device

3. Remove the arm cuff.

4. Press the START/STOP button to turn the monitor off.
   The monitor automatically stores the measurement result in its memory.
   It will automatically turn off after 2 minutes.
   **Note:** Wait 2-3 minutes before taking another measurement. Waiting between measurements allows the arteries to return to the condition prior to taking a measurement.

**Using the TruRead™ Mode**

1. Select your USER ID (1 or 2).

2. Press the START/STOP button.
   The arm cuff starts to inflate automatically.
3. Using the Device

The first measurement is complete, waiting to start the next measurement. The interval will appear on the display.

The second measurement is complete, waiting to start the next measurement. The interval will appear on the display.

The third measurement is complete, the average for the 3 measurements appears on the display.

Press the button to display the individual measurement values.
3. Using the Device

**Using the Guest Mode**

The monitor stores measurement values for 2 users in the memory. The guest mode can be used to take a single measurement for another user. No measurement values are stored in the memory, and the TruRead™ mode is not available when the guest mode is selected.

1. **Press and hold the START/STOP button for more than 3 seconds.**
   The USER ID symbol and the Date/Time display will disappear.

2. **Release the START/STOP button when the Date/Time display turns off.**
   The arm cuff will start to inflate automatically.

⚠️ **DO NOT** adjust medication based on measurement results from this blood pressure monitor. Take medication as prescribed by your physician. Only a physician is qualified to diagnose and treat High Blood Pressure.

⚠️ **This device is not intended to be a diagnostic device.**

⚠️ **Always consult your physician. Self-diagnosis of measurement results and self-treatment are dangerous.**

⚠️ **Inflating to a higher pressure than necessary may result in bruising where the arm cuff is applied.**
3.4 Using the Memory Function

The monitor automatically stores the results up to 100 sets for each user (1 and 2). It can also calculate an average value based on the last 3 measurement values taken within 10 minutes.

Notes:
- If there are only 2 measurement values in the memory for that period, the average will be based on these 2 values.
- If there is 1 measurement value in the memory for that period, this is displayed as the average.
- If the memory is full, the monitor will delete the oldest value.
- When viewing the measurement value taken without setting the date and time, "-/ -:--:" is displayed instead of the date and time.

To View the Measurement Values Stored in Memory

1. Select your USER ID (1 or 2).

2. Press the button.

The Memory number appears for a second before the pulse rate is displayed. The newest set is numbered "1".
3. Using the Device

3. Press the ▼ or ▶ button to view the values stored in the memory.
   ▼: To view the older values
   ▶: To view the more recent values

   **Note:** The value with the TruRead™ symbol is the average for the consecutive 3 measurements. To display the individual measurement values, press the button while the average is displayed.

_to View the Average Value_

1. Select your USER ID (1 or 2).

2. Press and hold the button for more than 3 seconds.

   **Notes:**
   • If the previous measurement was taken without setting the date and time, the average value is not calculated.
   • If there are no measurement values stored in the memory, the screen to the right is displayed.
3. Using the Device

To Delete All the Values Stored in Memory
The values stored in the memory are deleted by USER ID.

1. Select your USER ID (1 or 2).

2. Press the Memory button, while the memory symbol (€) appears.

3. While holding the € button down, press the START/STOP button for more than 3 seconds.

Note: You cannot partially delete the values stored in the memory. All values for the user you select will be deleted.
### 4. Error Messages and Troubleshooting

#### 4.1 Error Messages

<table>
<thead>
<tr>
<th>Display</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Heartbeat Icon]</td>
<td>Irregular heartbeats are detected.</td>
<td>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 physician.</td>
</tr>
<tr>
<td>![Movement Icon]</td>
<td>Movement during measurement.</td>
<td>Carefully read and repeat the steps in section 3.3.</td>
</tr>
<tr>
<td>![Battery Icon 1/2]</td>
<td>The batteries are low.</td>
<td>You should replace the batteries with new ones ahead of time. Refer to section 2.1.</td>
</tr>
<tr>
<td>![Battery Icon Empty]</td>
<td>The batteries are exhausted.</td>
<td>You should replace the batteries with new ones at once. Refer to section 2.1.</td>
</tr>
</tbody>
</table>
4. Error Messages and Troubleshooting

<table>
<thead>
<tr>
<th>Display</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Air plug disconnected.</td>
<td>Insert the air plug securely. Refer to section 3.1.</td>
</tr>
<tr>
<td></td>
<td>Arm cuff is applied too loosely.</td>
<td>Apply the arm cuff tighter. Refer to section 3.1.</td>
</tr>
<tr>
<td></td>
<td>Air is leaking from the arm cuff.</td>
<td>Replace the arm cuff with a new one. Refer to section 5.3.</td>
</tr>
<tr>
<td>E2</td>
<td>Movement during measurement and the arm</td>
<td>Repeat measurement. Remain still and do not talk during measurement.</td>
</tr>
<tr>
<td></td>
<td>cuff has not been inflated sufficiently.</td>
<td>Refer to section 3.3.</td>
</tr>
<tr>
<td></td>
<td>The arm cuff was inflated exceeding the</td>
<td>Do not touch the arm cuff and/or bend the air tube while taking a</td>
</tr>
<tr>
<td></td>
<td>maximum allowable pressure, and then</td>
<td>measurement. Do not inflate the arm cuff more than necessary. Refer to</td>
</tr>
<tr>
<td></td>
<td>deflated automatically when inflating the</td>
<td>section 3.3.</td>
</tr>
<tr>
<td></td>
<td>arm cuff manually.</td>
<td></td>
</tr>
<tr>
<td>E3</td>
<td>Movement during measurement.</td>
<td>Repeat measurement. Remain still and do not talk during measurement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to section 3.3.</td>
</tr>
<tr>
<td>E4</td>
<td>Movement during measurement.</td>
<td></td>
</tr>
<tr>
<td>E5</td>
<td>Clothing is interfering with the arm cuff.</td>
<td>Remove any clothing interfering with the arm cuff. Refer to section 3.1.</td>
</tr>
<tr>
<td>E6</td>
<td>Device error.</td>
<td>Contact Customer Service.</td>
</tr>
</tbody>
</table>
4. Error Messages and Troubleshooting

4.2 Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause and Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power. No display appears on the monitor.</td>
<td>Replace all batteries with new ones. Check the battery installation for proper placement of the battery polarities. Refer to section 2.1.</td>
</tr>
<tr>
<td>Measurement values appear too high or too low.</td>
<td>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 1.2 and section 3.3.</td>
</tr>
</tbody>
</table>
5. Maintenance and Storage

5.1 Maintenance

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

- Store the device and the components in a clean, safe location.
- Do not use any abrasive or volatile cleaners.
- Do not wash the device and any components or immerse them in water.
- Do not use gasoline, thinners or similar solvents to clean the device.
- Use a soft and dry cloth, or a soft and moistened cloth and neutral soap to clean on the monitor and the arm cuff.
- Changes or modification not approved by the manufacturer will void the user warranty. Do not disassemble or attempt to repair the device or components. Consult Customer Service.
5.2 Storage

1. Unplug the air plug from the air jack.

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

   Note: Do not bend or crease the air tube excessively.

Do not store the device in the following situations:
- If the device is wet.
- Locations exposed to extreme temperatures, humidity, direct sunlight, dust or corrosive vapors such as bleach.
- Locations exposed to vibrations, shocks or where it will be at an angle.
5. Maintenance and Storage

5.3 Optional Medical Accessories

Arm Cuff
Arm circumference
9” - 17” (22 - 42 cm)

AC Adapter

CFX-WR17
(Model: HEM-FL31)

HEM-ADPTW5
6. Specifications

Model
BP785N

Display
LCD digital display

Measurement range
Pressure: 0 to 299 mmHg
Pulse: 40 to 180 beats / min.

Accuracy
Pressure: ±3 mmHg or 2% of reading
Pulse: ±5% of display reading

Inflation
Fuzzy-logic controlled by electric pump

Deflation
Automatic pressure release valve

Measurement method
Oscillometric method

IP classification
IP 20

Power source
4 "AA" batteries 1.5V or AC adapter (INPUT AC100-240V 50/60Hz 0.12A)

Battery life
Approximately 1000 measurements (using new alkaline batteries)

Operating temperature / humidity
50°F to 104°F (10°C to 40°C) / 15 to 90% RH

Storage temperature / humidity / air pressure
-4°F to 140°F (-20°C to 60°C) / 10 to 95% RH / 700 to 1060 hPa

Weight
Monitor: Approximately 14 1/8 oz. (400 g) not including batteries
Arm cuff: Approximately 5 3/4 oz. (163 g)

Dimensions
Monitor: Approximately 4 7/8" (w) × 3 1/2" (h) × 6 3/8" (l)
(124 mm × 90 mm × 161 mm)
Arm cuff: Approximately 5 3/4" × 21" (air tube: 29 1/2")
(145 mm × 532 mm (air tube: 750 mm))

Cuff circumference
9" to 17" (220 to 420 mm)

Memory
Up to 100 per user

Contents
Monitor, arm cuff, AC adapter, instruction manual, quick start guide

Applied part
= Type BF

Protection against electric shock
Internally powered ME equipment (When using only the batteries)
= Class II ME equipment (AC adapter)

Notes:
• These specifications are subject to change without notice.
• In the clinical validation study, the 5th phase was used on 85 subjects for determination of diastolic blood pressure.
• This device has not been validated for use in pregnancy.
7. FCC Statement

FCC CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
8. Limited Warranty

Your BP785N Automatic Blood Pressure Monitor, excluding the arm cuff, is warranted to be free from defects in materials and workmanship appearing within 5 years from the date of purchase, when used in accordance with the instructions provided with the monitor. The arm cuff is warranted to be free from defects in materials and workmanship appearing within 1 year from the date of purchase when the monitor is used in accordance with the instructions provided with the monitor. The above warranty extends only to the original retail purchaser.

We will, at our option, replace without charge any monitor or arm cuff covered by the above warranty. Replacement is our only responsibility and your only remedy under the above warranty.

To obtain warranty service contact Customer Service by calling 1-800-634-4350 for the address of the inspection center and the return shipping and handling fee.

Enclose the original printed receipt. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit. Because of possible loss in transit, we recommend insuring the product with return receipt requested.

THE FOREGOING IS THE SOLE WARRANTY PROVIDED BY OMRON IN CONNECTION WITH THIS PRODUCT, AND OMRON HEREBY DISCLAIMS ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IMPLIED WARRANTIES AND OTHER TERMS THAT MAY BE IMPOSED BY LAW, IF ANY, ARE LIMITED IN DURATION TO THE PERIOD OF THE ABOVE EXPRESS WARRANTY.

OMRON SHALL NOT BE LIABLE FOR LOSS OF USE OR ANY OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT COSTS, EXPENSES OR DAMAGES.

This warranty provides you with specific legal rights, and you may have other rights that vary by jurisdiction. Because of special local requirements, some of the above limitations and exclusions may not apply to you.

FOR CUSTOMER SERVICE
Visit our web site at: www.omronhealthcare.com
Call toll free: 1-800-634-4350
OMRON Automatic Blood Pressure Monitor

Information for accompanying documents in the scope of IEC60601-1-2:2007

Model: BP785N including AC-adapter

Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PC’s 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 IEC60601-1-2 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.

Medical devices manufactured by OMRON Healthcare conform to this IEC60601-1-2:2007 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

- The use of accessories and cables other than those specified by OMRON, with the exception of cables sold by OMRON as replacement parts for internal components, may result in increased emission or decreased immunity of the device.
- The medical devices should not be used adjacent to or stacked with other equipment.
- In case adjacent or stacked use is necessary, the medical device should be observed to verify normal operation in the configuration in which it will be used.
- Refer to further guidance below regarding the EMC environment in which the device should be used.
- The MEDICAL ELECTRICAL EQUIPMENT BP785N including AC-adapter needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this documentations.
- The Essential Performance of the BP785N including AC-adapter is to measure a blood pressure and a pulse rate and using the memory function.

The BP785N including AC-adapter may be interfered with by other equipment, even if that other equipment complies with CISPR EMISSION requirements.

Guidance and manufacturer’s declaration - electromagnetic immunity

OMRON BP785N including AC-adapter is intended for use in the electromagnetic environment specified below. The customer or the user of this OMRON BP785N including AC-adapter should assure that it is used in such environment.

<table>
<thead>
<tr>
<th>Emissions test</th>
<th>Compliance</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPR 11</td>
<td>Group 1</td>
<td>The OMRON BP785N including AC-adapter uses 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.</td>
</tr>
<tr>
<td>RF emissions CISPR 11</td>
<td>Class B</td>
<td></td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Class A</td>
<td>The OMRON BP785N including AC-adapter is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Voltage fluctuations/ flicker emissions IEC61000-3-3</td>
<td>Compiles</td>
<td></td>
</tr>
</tbody>
</table>
### Guidance and Manufacturer’s Declaration

OMRON BP785N including AC-adapter is intended for use in the electromagnetic environment specified below. The customer or the user of this OMRON BP785N including AC-adapter should assure that it is used in such environment.

#### Immunity Test

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
</table>
| Electrostatic discharge (ESD) | ±16 kV contact | ±8 kV contact | Floor should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
| IEC 61000-4-2 | ±8 kV air | ±8 kV air |
| Electrical fast transient/burst | ±2 kV for power supply lines | ±2 kV for power supply lines | Mains power quality should be that of a typical commercial and/or hospital environment.
| IEC 61000-4-4 | ±1 kV for input/output lines | ±1 kV for input/output lines |
| Surge | ±1 kV line(s) to line(s) | ±1 kV line(s) to line(s) | Mains power quality should be that of a typical commercial and/or hospital environment.
| IEC 61000-4-5 | ±2 kV line(s) to earth | ±2 kV line(s) to earth |
| Voltage dips, short interruptions and voltage variations on power supply input lines | ≤5 % \( U_T \) (≤95 % dip in \( U_T \)) for 0.5 cycle | ≤5 % \( U_T \) (≤95 % dip in \( U_T \)) for 0.5 cycle | Mains power quality should be that of a typical commercial and/or hospital environment. If the user of the OMRON BP785N including AC-adapter requires continued operation during power mains interruption, it is recommended that the OMRON BP785N including AC-adapter be powered from an uninterruptible power supply.
| IEC 61000-4-11 | ≤10 % \( U_T \) (60 % dip in \( U_T \)) for 5 cycles | ≤10 % \( U_T \) (60 % dip in \( U_T \)) for 5 cycles |
| | ≤70 % \( U_T \) (30 % dip in \( U_T \)) for 25 cycles | ≤70 % \( U_T \) (30 % dip in \( U_T \)) for 25 cycles |
| | ≤5 % \( U_T \) (95 % dip in \( U_T \)) for 5 sec. | ≤5 % \( U_T \) (95 % dip in \( U_T \)) for 5 sec. |
| Power frequency (50/60 Hz) magnetic field | 3 A/m | 3 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
| IEC 61000-4-8 | 3 A/m |

Note: \( U_T \) is the A.C. mains voltage prior to application of the test level.

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**Note:**

- **IEC 61000-4-2** test level for contact ESD is ±6 kV and ±8 kV for air.
- **IEC 61000-4-4** test level for power supply lines is ±2 kV and ±1 kV for input/output lines.
- **IEC 61000-4-5** test level for surge is ±1 kV and ±2 kV for line(s) to line(s) and line(s) to earth, respectively.
- **IEC 61000-4-11** test level for voltage dips, short interruptions, and voltage variations is ≤5 % \( U_T \) for 0.5 cycle and ≤10 % \( U_T \) for 5 cycles, respectively.
9. Guidance and Manufacturer’s Declaration

### Guidance and manufacturer’s declaration - electromagnetic immunity

OMRON BP785N including AC-adapter is intended for use in the electromagnetic environment specified below. The customer or the user of this OMRON BP785N including AC-adapter should assure that it is used in such environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 V rms</td>
<td>3 V rms</td>
</tr>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
<td></td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the OMRON BP785N including AC-adapter including cables, than the recommended separation distance calculated from the equation appropriate to the frequency of the transmitter.</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC 61000-4-3</td>
<td>3 V/m</td>
<td>3 V/m</td>
</tr>
<tr>
<td></td>
<td>80 MHz to 2.5 GHz</td>
<td></td>
<td>Recommend separation distance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[d = 1.2 \sqrt{P}]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>80 MHz to 800 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[d = 2.3 \sqrt{P}]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>800 MHz to 2.5 GHz</td>
</tr>
</tbody>
</table>

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 meters (m). Field strengths from fixed RF transmitters as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: ⚠️

Note1: At 80 MHz and 800 MHz, the higher frequency range applies.
Note2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

* Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile 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 OMRON BP785N including AC-adapter is used exceeds the applicable RF compliance level above, the OMRON BP785N including AC-adapter should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the OMRON BP785N including AC-adapter.

Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.
OMRON BP785N including AC-adapter is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of this OMRON BP785N including AC-adapter can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the OMRON BP785N including AC-adapter as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Output Power of Transmitter in Watt</th>
<th>Separation distance according to frequency of transmitter in meter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \( d \) in meters (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: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.