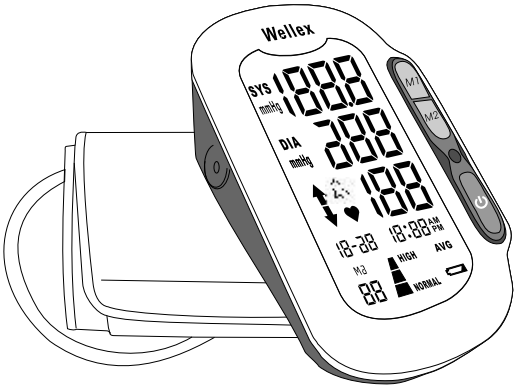
Wellex

Bluetooth Blood Pressure Monitor (Arm Type)

MODEL : BPM65ZB



User's Manual

Please read this instruction manual carefully before using your blood pressure monitor

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Important Notice

When using this product, please be sure to follow all the notes listed below. Any action against these notices may cause injury or affect the accuracy.

Note 1:
Do not disassemble, repair, or remodel the monitor.

Note 2:
Do not expose the monitor to extreme temperature, very high humidity, or direct sunlight.

Note 3:
Avoid dropping and rough handling.

Note 4:
Press Start/Stop button during measurement may cause the BPM stop operating.

Note 5:
During the measurement, please keep silent to ensure the accuracy.

Note 6:
Inaccurate readings may occur if user vibrates during measurement.

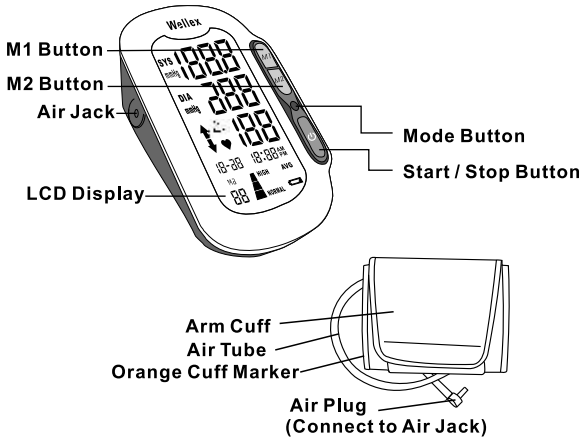
Note 7:
Avoid measuring blood pressure in 30 minutes after exercise, bathing, or returning from outdoor.

Note 8:
Under any circumstance, measured results are ONLY for reference. Any further medical action should follow the advice of doctors.

Intended Use

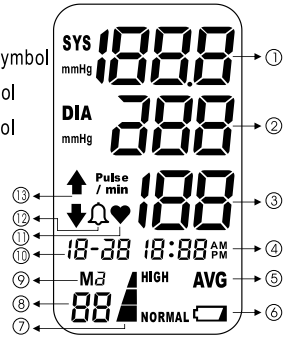
This arm type Blood Pressure Monitor applies the Oscillometric method to measure human systolic, diastolic blood pressure and heart rate. All values are shown on the LCD monitor and the results will be sent automatically to your health monitoring device through wireless connection. This device is designed only for adults.

Device Description



Description of LCD Display

① Systolic Pressure
② Diastolic Pressure
③ Pulse Display
④ Time
⑤ Average Measurement Symbol
⑥ Low Battery Symbol
⑦ WHO Indicator
⑧ Memory Set
⑨ Memory Symbol
⑩ Date
⑪ Heartbeat Symbol
⑫ Alarm Symbol
⑬ Inflation/ Deflation Symbol



Battery Loading

1. Open the battery cover.

2. Load four 1.5V AA typed alkaline batteries in the compartment and then close the cover.

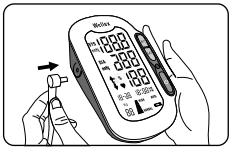
◎When the "Low Battery Symbol" appears at the right-bottom corner on the LCD monitor, please replace all batteries.

◎If the device will not be used for a long time, please remove all four batteries.

◎Batteries must be disposed of in accordance with local environmental and institutional policies.

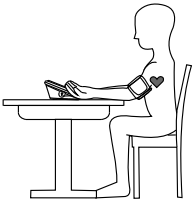
How to Apply the Arm Cuff

1. Make sure the air plug is securely inserted in the main unit.

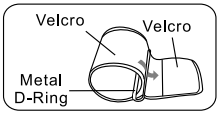


2. Remove tight-fitting clothing from your upper arm.

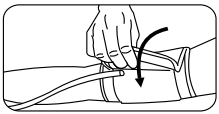
3. Sit in a chair with your feet flat on the floor and rest your arm on a table so that the cuff is at the same level as your heart.



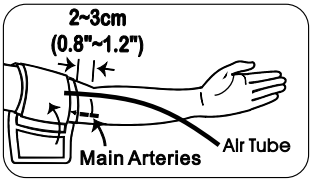
4. Turn the palm of your hand upward. Apply the cuff on your upper arm. Secure the cuff around your arm using the velcro strip.



Note:
Make sure the cuff is wrapped firmly in place.



5. The bottom of the cuff should be approximately 0.8" to 1.2" above your elbow. Make sure the orange marker is in your inner arm and "Index" is in the range of " ←OK→ ".



Note:

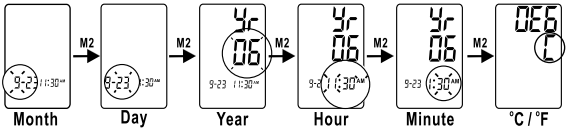
Naturally, blood pressure varies from two hands, so that always measure your blood pressure on the same arm, in order to ensure comparability of two readings.

Date/ Time Set Procedure

1. After Loading the batteries, this device would enter into Date / Time setting procedure and the Month value will be flashed first.

2. To adjust the value of Month, please press "M1" button and the value will goes up. Once finished, please press "M2" button to confirm the value and go to the next setting.

3. Follow the steps instructed above to adjust the value of day, year, hour, minute and unit of temperature (°C / °F) consequently.



How to Measure

1. Press the Start / Stop button.

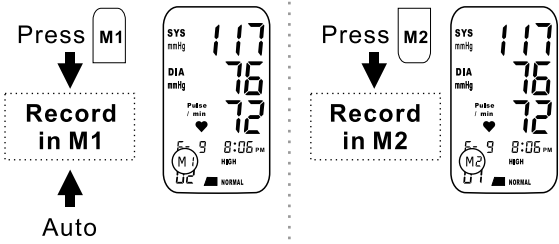
(1) All display symbols appear for approx. 1 seconds. This is the initial LCD test.

(2) When the monitor completes the necessary preparations before measurement, the last reading result will be shown on the display for 1 second.

(3) Then the monitor begins to measure your blood pressure, and you will see the inflation symbol on the display when inflating. During the process of deflation, the symbol of inflation will turn off and the symbol of deflation will turn on instead.

2. Record the Measurement Result.

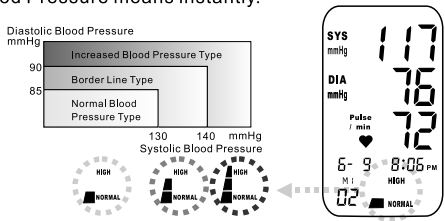
(1) After the measurement is completed, your blood pressure and pulse rate will be displayed on the LCD automatically.
(2) Press M1 to record the measurement in the first zone, or press M2 to recode in the second zone.
(3) The device would auto record the measurement in the first zone if users do not press any button after measurement.



※ The stored measurements will remain in the memory even when the batteries are removed for battery replacement.

(4) The World Health Organization (WHO) and the International Society of Hypertension (ISH) developed the Blood Pressure Classification shown in the Figure below.

※ The Indicator shows on LCD helps to get to know what your Blood Pressure means instantly.



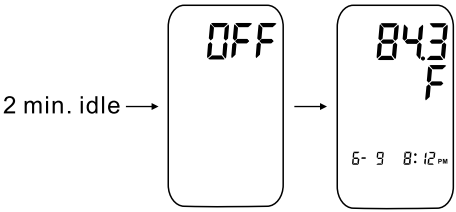
※ According to the blood pressure classification by the WHO / ISH (revised in 1999)

3. Temperature Mode

(1) After the measurement is completed, your blood pressure and pulse will be displayed on the LCD automatically.

(2) To turn to temperature mode, please press the START / STOP button to switch to the temperature mode.

(3) This device would automatically switch to temperature mode after two minutes idling.



※ To shut down the temperature display, please remove all four batteries.

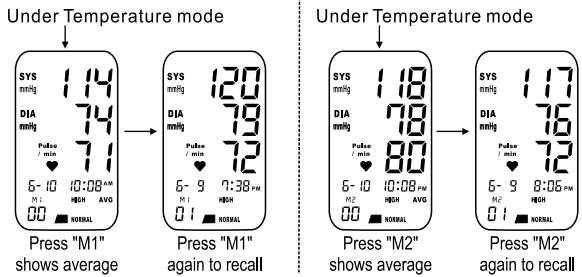
How The Wireless Connection Works

At the end of the measurement, your blood pressure will be sent automatically to your health monitoring device. You do not need to do anything. If the health monitoring device is not working or is not within range of the blood pressure monitor, the blood pressure will be stored in the blood pressure monitor's memory.

Memory Recall and Deletion

1. Memory Recall

(1) Under temperature mode, press "M1" button to recall the readings in the first zone, or press "M2" button to recall the readings in the second zone. Then, the average measurement result will be shown on the LCD first.
(2) After the average reading is shown on the display, you can press "M1" or "M2" button to track historical records from no.1 to no.60.



※ AVG: average the latest three measurements.
※ You can recall up to 60 measurements in each zone.
※ Memory capacity is maintained in a "first-in-first-out" basis, is the oldest readings will be deleted first.

2. Memory Deletion
Under temperature mode, please press M1(or M2) button and hold it until the screen shows Clr, then all the records saved ie the relative zone would be cleared.

Setting the Alarm Clock

Your automatic digital blood pressure monitor features an alarm clock. The alarm can be set to ring at three different times in the day. The alarm is especially helpful if you are required to measure your blood pressure at specific times (for example: 7:00 a.m., 12:00 p.m. and 10:00 p.m.), Figs. 1-3.

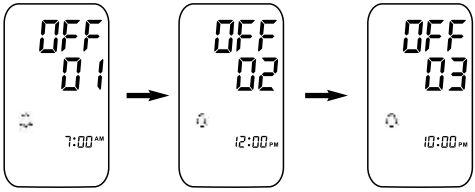


Fig. 1 Fig. 2 Fig. 3

To set the alarm clock:

1. Press the Mode Button to enter into the alarm setting mode.

2. Continue to press the Mode Button to select the alarm to adjust.

3. With the chosen alarm screen displayed, the hour will begin to flash at the middle of the screen, Fig 4. Press the M1 Button to change the hour. Once the correct hour is displayed, press the M2 Button to confirm.

4. After the hour is confirmed, the minutes will begin to flash, Fig 5. Press the M1 button to change the minutes. Once the correct minutes are displayed, press the M2 button to confirm.

5. The alarm feature must be turned on immediately after setting the time for the alarm. Press the M1 Button to turn the alarm on, Fig. 6. Press the M1 Button a second time to turn the alarm off, Fig. 7.

6. Press M2 Button to confirm the setting then automatically switch to the temperature mode.

7. During Alarm Setting procedure, the device will automatically switch to temperature mode in 2 minute idling.

※ You may see the alarm icon shows on the LCD when turn to temperature after anyone of the alarm clock is set, Fig. 8.

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Cautions in Cleaning

1. Wipe the monitor with a piece of cloth moistened with water or detergent, then wipe it dry.

※ Please be careful so that water do not get into the unit. It may cause damage or gasoline.

2. Do not use benzine, thinner, strong detergent or gasoline.

3. Do not wash or wet the arm cuff.

Applied Standards

This product conforms to the provisions of the EC directive MDD (93/42/EEC). The following standards apply to design and/or manufacture of the products:

- EN 1060-1
  Non-invasive sphygmomanometers-
  Part1 : General requirements
- EN 1060-3
  Non-invasive sphygmomanometers-
  Part 3 : Supplementary requirements for electro-Mechanical blood pressure measuring system
- ANSI/AAMI SP10
  Electronic or automated sphygmomanometers
- IEC/EN 60601-1
  Medical electrical equipment-
  Part 1: General requirement for safety
- IEC/EN 60601-1-2
  Medical electrical equipment-
  Part 2: Collateral standard:
  Electromagnetic compatibility - Requirements and tests

Classification according to IEC/ EN 60601-1:

- Internally powered equipment
- Type BF applied part
- IPX0
- Not suitable for use in the presence of a flammable anaesthetic mixture
- Continuous operation

FCC Statement

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 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.

FCC Statement

* FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

* This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

* This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Error Indication

If measurement is not made correctly, the following error will be displayed.

Error	Cause	How to Correct
Err	1. Pressure is higher than 330 mmHg. 2. Key parts are fail.	Press START/STOP button once to turn to temperature mode. Take a rest in a while, measure again without moving your arm or body.
EE	1. You may move your body or talk during measurement. 2. The measurement reading is extremely high or low.	
Err +	The batteries are almost exhaust.	Replace the batteries with new ones.

Type BF equipment

This device includes RF transmitter (with wireless communication)

Product Specification

* Range of Measurement:
  Blood Pressure: 30 to 280mmHg
  Pulse: 40-199 beats/ min
* Accuracy Calibration:
  Blood Pressure: +/- 3mmHg
  Pulse: +/- 4%
* Ambient temperature: +/- 1.0℃
* Operation Environment:
  Temperature: 10 to 35℃
  Humidity: 15% to 95% RH(non-condensing)
* Storage/Transportation Environment :
  Temperature: -20℃ to 50℃
  Humidity: 15% to 95% RH (non-condensing)
* Ambient Temperature: Range: 0~42℃(32~107.6℉)
* Dimensions:92mm(W)x143mm(H)x58mm(D)
* Weight: Approximately 390g (excluding batteries)
* Memory Set: 2X60 memory with latest 3 readings average
* Accessories:
  M size cuff for arm circumferences 9"~13" (23-33cm)
  L size cuff for arm circumferences 13"~17"(33-43cm)
* Power Supply: 4 X 1.5V AA size alkaline batteries(DC 6V)
* Wireless Communication: BlueMod+B20 (stollmann)
  Peak output power: 1.03 dBm

※ It is recommended that the accuracy should be checked every 2 years.

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