

Table type blood pressure monitor intended use:

Measures human beings Systolic, Diastolic blood pressure and heart rate using the oscillometric method. All values can be read out in one LCD DISPLAY. Measurement position is at human being's upper arm.

Having one's blood pressure measured by a doctor in a hospital tends to stimulate nervousness in the person and may even create high blood pressure. Blood pressure in accordance with variety of conditions varies. So judgment is not possible on the basis of a single measurement. It is better to take measurement at home. Regular home monitoring will let you have a record of your measurements. This information may provide a better reference of what your blood pressure really is, and may help your doctor make important decisions about your diagnosis and treatment. If end-user has one of the diseases as heart troubles, kidney trouble, diabetes or frustration problem of blood vessel, please consult a doctor before using the device.

What is blood pressure ?

Blood pressure is a measurement of the force of blood flowing against the walls of the arteries. Arterial blood pressure is constantly changing during the course of the cardiac cycle. The highest pressure in the cycle is called the systolic blood pressure, the lowest is the diastolic blood pressure. Both pressure readings, the systolic and the diastolic are necessary to enable a physician to evaluate the status of a patient's blood pressure. Many factors such as physical activity, anxiety or the time of day can influence your blood pressure. Blood pressure is typically low in the morning and increases from the afternoon to the evening. It is lower in the summer and higher in the winter.

Why is it useful to measure blood pressure at home ?

Having one's blood pressure measured by a doctor in a hospital or a clinic, and a group health checks, tend to stimulate nervousness in the subject and may even create high blood pressure. Also varies blood pressure in accordance with a variety of conditions and so judgment is not possible on the basis of a single measurement. The blood pressure measured first thing in the morning after getting up, before taking any food and with the subject still, is known as the fundamental blood pressure. In practice it is rather difficult to record the fundamental blood pressure, but to come as near as possible to measuring the blood pressure in an environment that is close to this, is why it is useful to take the measurement at home.

New WHO blood pressure classifications

Standards for assessment of high or low blood pressure without regard to age, have been established by the World Health Organization (WHO), as shown in the chart (Figure 1).

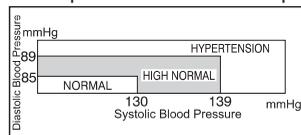
Variations in blood pressure

Individual blood pressures vary greatly both on a daily and a seasonal basis. These variations are even more pronounced in hypertension patients. Normally the blood pressure rises while at work and is at its lowest during sleeping period.

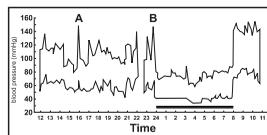
(Hypertension: means a person who has high blood pressure symptom.)

The graph (Figure 2) illustrated the variations in blood pressure over a whole day with measurement taken every five minutes.

(The thick line represents sleep. The rise in blood pressure at 4 PM (A in the graph) and 12 PM (B in the graph) correspond to an attack of pain.



* Figure No.1

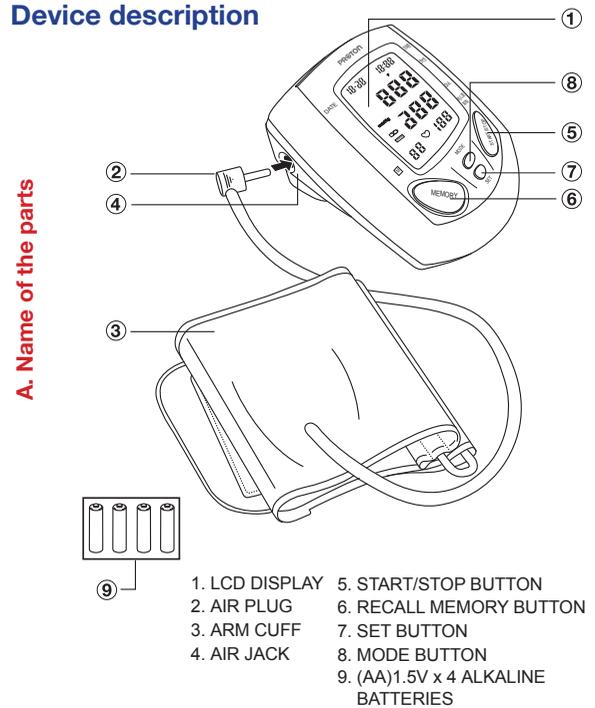


* Figure No.2

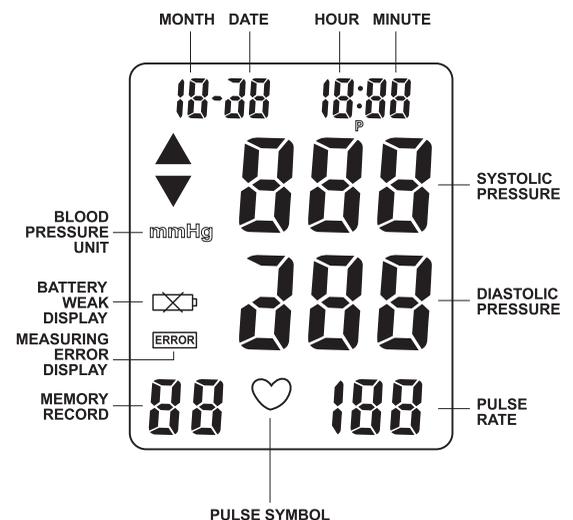
Important information before use of the unit

- Blood pressure measurements should be interpreted by a physician or trained health professional who is familiar with your medical history. By using the unit regularly and recording the results for your physician to interpret, you keep your physician informed of the continuing trends in your blood pressure.
- Wrap the cuff snugly around your arm and the cuff must be at the same level as your heart.
- Do not vibrate the unit during measurement, or the proper measurement will not be achieved.
- Perform measurement quietly in a relaxed position.
- Do not wrap the cuff over jacket or sweater sleeve, or measurement cannot be done.
- Keep in mind, that blood pressure naturally varies from time to time through out the day and also is affected by lots of different factors such as smoking, alcohol consumption, medicamentation and physical activity.
- Blood pressure measurement determine with the unit are equivalent to those obtained by a trained observer using the cuff / stethoscope auscultation method. Within the limits prescribed by the American National Standard for Electronic or Automated Sphygmomanometers.

Device description

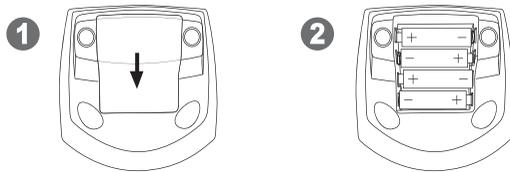


B. Description of display symbols



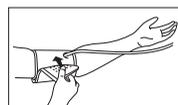
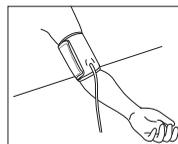
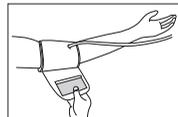
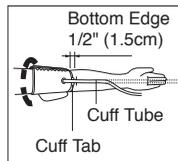
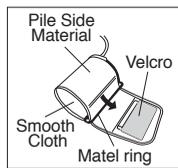
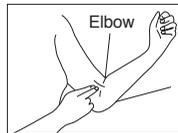
Changing batteries

Remove the battery cover at the rear side of the unit and insert ALKALINE batteries into the battery compartment as shown, taking extreme care that the polarities + and - are observed.



Attaching pressure cuff

- Press your brachial artery by two fingers approximately 1 inch above the elbow on the inside of your left arm.
- Determine where your strongest pulse is. Slide the end of arm cuff furthest from the tube through the metal ring to a loop. The smooth cloth should be on the inside of the cuff.
- If the cuff is located correctly, the Velcro will be on the outside of the cuff and metal ring will not touch your skin.
- Put left arm through the cuff loop. The bottom of the cuff should be approx. 0.5 inch above elbow. The cuff should lie over the brachial artery on the inside of the arm.
- Pull the cuff so that the top and bottom edges are tightened around your arm.
- When the cuff is positioned properly, press the Velcro firmly against the pile side of the cuff
- Sit on a chair and place your arm on the table so that the cuff is at the same level as your heart.
- Relax your arm and palm your arm upward.
- Assure there are no kinks in the air tube.



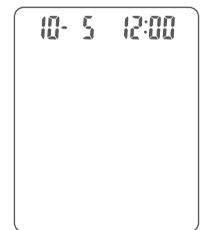
Display mark	Condition/Cause	Corrective action
 heart rate symbol	Mark appears in the measurement condition and flashes when pulse is detected.	Measurements in progress remain quiet.
 battery weak	Appears when the battery voltage is excessively low or the positions of batteries are incorrect.	Replace all four batteries by new ones. Insert the batteries at correct positions beware of the +/- directions.
 measuring error	Appears when the accurate blood pressure could not be obtained accurately.	Press " start/stop " button again and re-measure. Or check cuff if wrapped at the wrist or according to instructions Check palm if exerting effort. Check if posture is incorrect.

How to measure

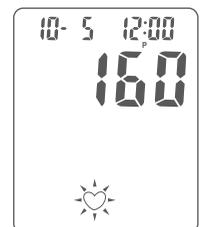
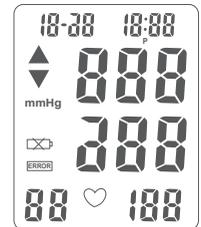
- Inserting 4 pieces "AA" Alkaline batteries in position:
 - Open battery cover
 - Refer to the picture in positioning batteries
 - All LCD segments will appear on the display in 3 seconds.
 - Display 1 month 1 date, 12 hour 0 minute.



- Setting Month, Date and Time:
 - Press (MODE) button ("month" starts flashing.) Press (SET) button to set the correct month (1,2,3,...12)
 - Press (MODE) button again ("date" starts flashing) Press (SET) button to set the correct date
 - Press (MODE) button again ("hour" starts flashing) Press (SET) button to set the correct hour in 12-hour format.
 - Press (MODE) button again ("minute" starts flashing) Press (SET) button to set the correct minute (0,1,2,3,...59)
 - Press (MODE) button again to switch to normal time. (month:10, date:5, hour:12 and minute:00 appear on then display will be as right picture)
 - Then device is ready to start.



- Steps to take blood pressure measurement:
 - Wrap the cuff around the arm (Refer to "Attaching pressure cuff at chapter 6")
 - Sit upright on the chair to have correct posture. (Refer to Correct Posture in Taking Blood Pressure as "Attaching pressure cuff at chapter 6")
 - Press "SET/STOP" button all elements display '888' in 3 seconds. Afterward, display the update time. The measuring blood pressure symbol will flash on the display and then the air pressure will automatically pump up to certain pressure level and starting measurement.



- * Do not move or talk in the midst of taking blood pressure measurement.
- d. After the air pressure is increased, it will slowly decreased.

- When the pulse is detected, HEART RATE symbol will start flashing.
- e. After taking blood pressure measurement, the Systolic pressure, Diastolic pressure and Pulse rate will be lasting on the display for 1 minute and then auto shut off if without any orders.



- Storing, recalling and erasing measurement data:
 - Storing data:

After each blood pressure measurement, the Systolic pressure, Diastolic pressure, Pulse rate and the time

& date of specific day will be automatically stored. The memory holds the latest 48 measurement data. If more than 48 measurements, the memory will automatically clear out the earliest data.

b. Recalling data:

- (i) Pressing "RECALL" button at normal time, nothing will appear on the display if there is no data in the memory. If there is data in the memory, the latest recorded set of measurement which are the Systolic pressure, Diastolic pressure, Pulse rate, including the recording time and date, will appear and lasting on the display for 1 minute.
- (ii) Press "RECALL" button to read the next line of stored data. The data called up on the display is numbered accordingly.
- (iii) To discontinue in the midst of reading of the data, press "START/STOP" button to normal time.



c. Erasing data:

- (i) Take out the batteries and then refill 4 pcs batteries again.
- (ii) To check if the data is erased. Press "RECALL" button, no data should show up on the screen.

5. To change batteries:

When "⊗" show up on the display, the battery is weak. Change 4 pcs new Alkaline batteries or it will not be possible to take blood pressure measurement.

Maintenance

- Use a piece of cloth with water or mild cleansing agent to clean the case and then use a piece of dry cloth to wipe it dry. Use a piece of dry cloth to wipe the cuff when it is dirty.
- Do not use gas or any strong cleansers in cleaning.
- When the unit is not to be used for a long time, remove the batteries. (Leaking of battery liquid can cause trouble.)

Safe-keeping

- Always keep the unit in the carrying case after its use.
- Do not put the item directly under the sunlight, in high temperature, or humid and dusty places.
- Do not store in extremely low (less than -20 C) or high (more than 60 C) temperature.

To Prevent Malfunction

- Do not in any way twist the arm cuff
- Do not inflate the monitor's cuff when it is not wrapped around the arm.
- Do not attempt to disassemble or change any parts of the monitor including the cuff
- Do not drop the product or put it through strong impact.

Warning

- The cuff size is suitable for 23-33 cm / 9-13 inches adult only.
- The device is not supposed to be used if your arm has any wound or injury.
- In case the cuff is pumping up and non stop, please open the cuff at once.
- We do not recommend user to unpack device by himself/herself due to substitution of a component different from that supplied might result in measurement error. If any suggestion or service is requested please consult your service station.

Model number	:	PHC 888JA
Range of measurement	:	Pressure 0-300mmHg, pulse 40-199 beats/minute
Accuracy	:	Pressure +/- 3mmHg, Pulse +/- 5% Max.
Inflation	:	Automatic
Exhaust	:	Automatic exhaust valve
Display	:	Systolic, Diastolic, Pulse rate
Sets of memory	:	48-set
Cuff size	:	Arm circumference approx. 24-32 cm / 9.5-13 inches
Operating Temperature	:	+10°C to + 40°C, 30-85%R.H.
Storage Temperature	:	- 20°C to + 50°C, 10-95%R.H.
Unit weight	:	Approx. 265g with battery
Power Supply	:	6VDC, 4 x "AA", Alkaline Batteries
Battery life	:	300 times measurement (twice a day measurement)
Auto power off	:	Whenever not used for 1 minute
Accessories	:	4 batteries, arm cuff with tube, instruction manual, pouch, gift box

These specification are subject to change without notice for purpose of improvement.

Note

Measurement accuracy results were obtained by studies conduct at hospital in Taiwan.

The CE mark of device corresponds to EC directive 93/42/EEC. The blood pressure measuring device corresponds to European regulations EN1060 part 1 and EN60601-1-2. AAMI/ANSI/SP-10: 1992.

User group: the device is not suitable for invasive blood pressure measuring in adults or children. It is suitable for non-invasive blood pressure measuring for adults only.

 0344

Product class IIa is in compliance with MDD 93/42/EEC.

BF 

Meaning of the symbol on the bottom label:
Application Part Type BF



Meaning of the symbol on the bottom label:
(triangle)