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Date: 2023-04-13 Rev:A/2

ELECTRONIC BLOOD PRESSURE MONITOR

Instruction Manual

MODEL: PG-800A27

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INTRODUCTION

The **!** icon indicates something that is compulsory (what must always be observed).
Matters involving actual compulsory actions are indicated by text or pictures in or near **!**. The left icon refers to "general compulsion".

The **⊘** icon indicates something can't be disassembled or "Don't disassemble".
Matters involving actual compulsory actions are indicated by text or pictures in or near **⊘**. The left icon refers to "general prohibition".

Type BF Applied part **IP Classification: IP20** **Caution**

Please refer to the instructions for use **Consult instruction for use** **The following symbol indicates that the device is MR-Unsafe.**

Indicates a medical device that needs to be protected from moisture. **MD** **Indicates medical device**

Contact its local authorities to determine the proper method of disposal of potentially bio hazardous parts and accessories.

INTRODUCTION

The Monitor uses the oscillometric method of blood pressure measurement. Measurement Automatic Electronic Blood Pressure Monitor is intended for use by medical professionals or at home to monitor and display diastolic, systolic blood pressure and pulse rate, with an air wrist cuff buckled around one's wrist according to the instructions in the "ATTACHING THE WRIST CUFF". The expected life of the product is 5 years.

The product complies with the electromagnetic compatibility requirement of IEC 60601-1-2 and safety standards of IEC 60601-1 and performance of IEC 80601-2-30 as specified in Regulation (EU)2017/745.

NOTES ON SAFETY

- * The warning signs and sample icons shown here are listed for your safe and correct use of the unit, so as to prevent injuries or damages to the device.
- * The icons and meanings are as follows.

Examples of signs

The **⊘** icon indicates prohibitions (what you should not do).
Matters involving actual prohibitions are indicated by text or pictures in or near **⊘**. The left icon refers to "general prohibition".

Requests from Manufacturer

Make sure there is no connection tubing kinking before start measuring to avoid any injury to patient.

For any patient, do not measure more than 3 times continuously, it should be at least above 5 minutes of interval rest between any two measurements, otherwise will cause extravasated blood.

Do not measure your blood pressure over 6 times each day.

Do not apply the cuff over a wound as this can cause further injury.

Do not measure on the wrist which is on the side of a mastectomy, otherwise it could cause injury.

Observe the air pressure value from the LCD display.

When measuring, it could not exceed 280 mmHg, otherwise Please press "on/off" button to stop

Do not use force to bend the wrist cuff or the air tube.

Do not knock or drop the main unit.

Always use the specified accessories in the manual, the use of other parts not approved by the manufacturer may cause faults or injuries.

For service information, parts list etc., please contact the dealer.

ABOUT BLOOD PRESSURE

1. What is blood pressure?
Blood pressure is the force exerted by blood against the walls of the arteries. Systolic pressure occurs when the heart contracts. Diastolic pressure occurs when the heart expands.

Blood pressure is measured in millimeters of mercury (mmHg). One's natural blood pressure is represented by the fundamental pressure, which is measured first thing in the morning while one is still at rest and before eating.

2. What is hypertension and how is it controlled?
Hypertension, an abnormally high arterial blood pressure, if left unattended, can cause many health problems including stroke and heart attack. Hypertension can be controlled by altering lifestyle, avoiding stress and with medication under a doctor's supervision.

To prevent hypertension or keep it under control:

- The PATIENT is an intended OPERATOR.
- Self servicing and maintenance while the ME EQUIPMENT is in use.
- The user can maintain the product, the maintenance method is described in the maintenance instructions of manual.
- Stop using the equipment immediately, if it is in contact with water.

3. Why measure blood pressure at home?
Blood pressure measured at a clinic or doctor's office may cause apprehension and produce an elevated reading, 25 to 30 mmHg higher than that measured at home. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings and provides a more accurate, complete blood pressure history.

4. WHO blood pressure classification
Standards for assessment of high blood pressure, without regard to age, have been established by the World Health Organization (WHO), and shown in chart below.

5. Blood pressure variations
An individual's blood pressure varies greatly on a daily and seasonal basis. It may vary by 30 to 50 mmHg due to various conditions during the day. In

Reference Material: Journal of Hypertension 1999, Vol 17 No.2

Typical fluctuation within a day (Measured every five minutes)

FEATURES OF THE PRODUCT

- Memory can store 90 measurements.
- Large and clear LCD display.

PARTS IDENTIFICATION

SYMBOLS ON DISPLAY

INSERT OR REPLACE BATTERIES

- Remove the battery cover.
- Insert new batteries into the battery compartment as shown, taking care that the polarities(+) and (-) are correct.
- Close the battery cover. Use only LR03, AAAA batteries.

CAUTION

- Insert the batteries as shown in the battery compartment. If not, the device will not work.
- When **⊘** (LOW BATTERY mark) blinks in the display, replace all batteries with new ones. Do not mix old and new batteries. It may shorten the battery life, or cause the device to malfunction.
- ⊘** (LOW BATTERY mark) does not appear when the batteries run out.
- Please ensure to distinguish positive polar "+" and negative polar "-" of batteries when replacing batteries.

WHO BLOOD PRESSURE CLASSIFICATION DISPLAY

Diastolic blood pressure

Reference material: journal of hypertension 1999, vol 17 No.2

UNIT CONVERSION mmHg/kPa DISPLAY

The goods have mm Hg(mmHg), kPa (kPa) two kinds of blood pressure display units(mmHg factory to express).

Press "ON / OFF" button for 10 seconds to display unit switching interface, then press "MEM" key to select mmHg / kPa, press "ON / OFF" button to exit.

WHO BLOOD PRESSURE CLASSIFICATION DISPLAY

Diastolic blood pressure

Reference material: journal of hypertension 1999, vol 17 No.2

ATTACHING THE WRIST CUFF

- Fastening the wrist cuff**
1) Wrap the wrist cuff around your wrist about (1-2)cm above your hand as shown in the figure at the right.
2) Fasten the wrist cuff tightly by using the Velcro Strip.
For proper measurements, fasten the wrist cuff tightly and measure on a bare wrist.
- How to take proper measurements**
For best accuracy in blood pressure measurement:
• Sit comfortably at a table. Rest your wrist on the table.
• Relax for about 5 to 10 minutes before measurement.
• Raise your hand so that the wrist cuff is at the same level as your heart.
• Remain still and keep quiet during measurement.
• Do not measure left after physical exercise or a bath.
• Measure your blood pressure at about the same time every day.

HOW TO MEASURE BLOOD PRESSURE

- Fasten the wrist cuff according to the instructions in "ATTACHING THE WRIST CUFF".
- Press the "ON/OFF" button. All icons appear two seconds on DISPLAY, then switch to measurement, and display "0" or last measurement record.
- Start measurement, the cuff in the strap will automatically inflate.
The mark **♥** will flash on LCD. When complete, the results will be displayed.

READ MEMORY

Press "MEM" button to inquire memory average values **AV** Average Value Display: the latest 3 groups of memory average values (Memory values are displayed regardless of period).

Press "MEM" button, a memory reading out the latest measurements, "MEM" for the buttons(UP), "SET" for the memory (DOWN)

Power Measurement closure or after the end of the state, can press the "MEM" button read out the latest measurement of memory.

DELETE MEMORY

The state read out the memory press the (memory) button five seconds, the LCD display "RD" has been to delete all memory.

CLEAN AND MAINTENANCE

- Keep this device in the case provided with the device when you do not use it.
- Do not fold the arm cuff too tightly.

WHO BLOOD PRESSURE CLASSIFICATION DISPLAY

Diastolic blood pressure

Reference material: journal of hypertension 1999, vol 17 No.2

Specifications

Measuring Method	Oscillometric Measurement
Indication	Digital LCD display
Measuring Range:	Pressure:(30-280)mmHg Pulse:(40-199)Beat/min
Accuracy:	Static Pressure: ±3mmHg Pulse: ±5%
Memory:	90 Memories
Power supply:	2x1.5V Batteries(LR03or AAA) use alkaline battery measure above 200 times.
Operating condition:	-5°C~+40°C, 15%RH~93%RH Atmospheric pressure: 70kPa~106kPa
Storage condition:	-20°C~+55°C, 0%RH~93%RH Atmospheric pressure:50kPa~106kPa
Dimensions:	Approx: 80(W)X73(H)X33(D)mm
Weight:	Approx: 120g, excluding batteries
Classification	Type BF
Wrist circumference	(13.5~19.5)cm

* Specifications may be changed without notice in the event of improvement being made.

Trouble Shooting

If you have trouble in using the unit please check the following points first.

ERROR DISPLAY	POSSIBLE CAUSE	HOW TO CORRECT
Nothing is displayed	No battery installation	Insert batteries
When you push the POWER button or Battery icon flash	Battery worn out	Replace worn batteries
	The polarities of batteries placed wrongly	Insert battery in the correct polarities

Guidance and manufacturer's declaration – electromagnetic immunity

The PG-800A27 Series Electronic Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the PG-800A27 Series Electronic Blood Pressure Monitor should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD)IEC 61000-4-2	±8 kV contact ±4 kV, ±15 kV air	±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-6	30 A/m, 50/60Hz	30 A/m, 50/60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE U_i is the a.c. mains voltage prior to application of the test level

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