

Fully Fuzzy Auto Digital Blood Pressure Monitor

Geratherm[®] *desktop*



GB

INSTRUCTION MANUAL

GP-6621

CE 0118

Contents

Information You Should Know Before Operating the Unit

About the Unit	25
Explanation of Displays.....	25

Preparation for Use

Installing/Replacing Batteries.....	26
Attaching the Pressure Cuff	27
Measuring Posture	28

Operations

Setting the Clock.....	29
Measuring Blood Pressure.....	30
Recalling Memories.....	31
Erasing Memories	32

Care and Maintenance	33
-----------------------------------	----

Error Message	35
----------------------------	----

Specifications	36
-----------------------------	----

Caution

1. Consult your physician to verify your blood pressure range before obtaining it at home with this unit.
2. If the cuff causes any discomfort during measurement, press the start/stop button to turn off the unit immediately.
3. Pull off the velcro strap to detach the arm cuff if the pressure is over 300mmHg and the cuff does not deflate automatically.

Blood pressure measurements obtained with this unit are equivalent to those obtained by a trained person using the cuff/ stethoscope auscultation method.

WARRANTY :

Three years from the date of purchase.

GB

Information You Should Know Before Operating the Unit

What is blood pressure?

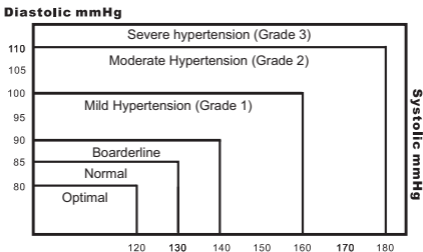
A force is created by the heart as the ventricle forcibly ejects blood into the blood vessels and through the transport system. Another force is created by the arteries as they resist the blood flow. Blood pressure is the result of these two forces.

What are systolic and diastolic pressures?

Systolic pressure represents the highest pressure at the height of the heart's contraction. Diastolic pressure is the lowest pressure when the heart is resting.

Is my blood pressure normal?

See the following blood pressure classification chart released by the WHO (World Health Organization) for evaluation of your blood pressure level.



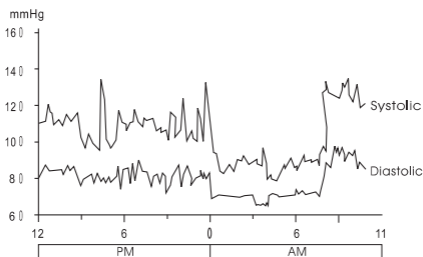
Information You Should Know Before Operating the Unit

What about low blood pressure?

In general, a lower blood pressure reading is better unless it causes some uncomfortable symptoms such as fainting and/or lightheadedness.

Fluctuation and variation in blood pressure

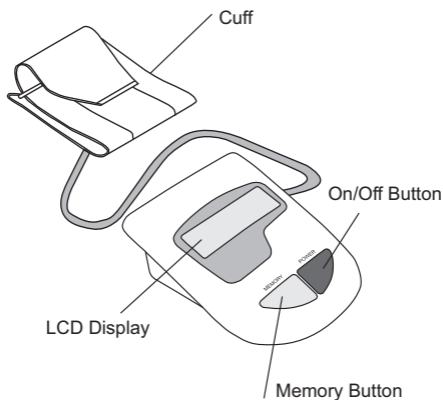
The following chart shows possible blood pressure fluctuations during a 24hr period.



The following factors will influence blood pressure measurement results and cause variations.

- Bathing
- Conversation
- Exercise
- Mental tension
- Temperature change
- Smoking etc.
- Breathing
- Drinking alcohol
- Moving
- Meals
- Thoughts

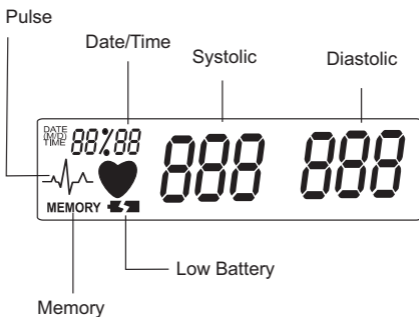
About the Unit



The cuff is designed to fit arm sizes between 22 and 32cm (8.7 to 12.6 inches.)

Explanation of Displays

GB

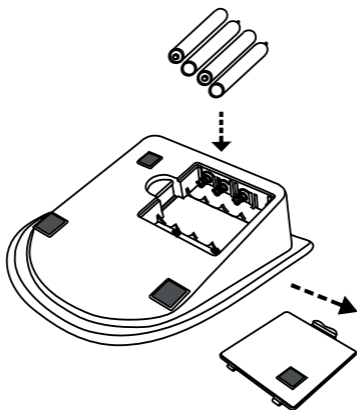


Preparation for Use

Installing/Replacing Batteries

1. Insert the batteries into the battery compartment matching correct polarities „+“ and „-“.
2. Replace all batteries if the low battery indicator appears.
3. Remove the batteries if the unit will not be used for a long period of time.
4. REMOVE all of the BATTERIES when utilizing the optional AC adapter.

Note: It is recommended that the same type of alkaline batteries be used to avoid incompatibility.

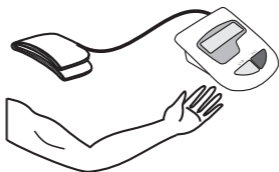


Please dispose of defective appliances and used batteries in compliance with statutory regulations (disposal in general household waste is prohibited!).

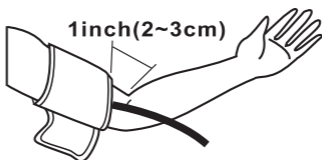
Preparation for Use

Attaching the Pressure Cuff

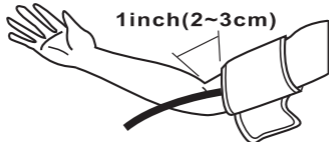
1. Wrap the cuff around the left arm. The arm should be bare skin.



2. Fasten the cuff. Don't pull it strongly and make the cuff too tight. The cuff's edge should be approximately 1 inch from crook of the arm.



3. Attach the cuff on the right hand as shown in the figure if it is not possible to measure on the left hand.

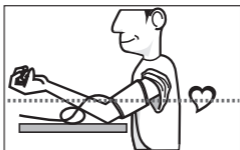


GB

Preparation for Use

Measuring Posture

1. Sit upright and ensure that the measuring site is at heart level. Relax and measure in a natural position.



2. Measure and record blood pressure at the same time every day to establish your blood pressure pattern.

AC Adapter (optional accessory)

It is possible to use a stabilized AC adapter (output 6 V DC/800 mA) to operate the device.

GB

Note:

1. No power is taken from the batteries while the AC is connected to the device.
2. If AC adapter power is interrupted during measurement, the device must be reset by disconnecting the AC adapter from the device.
3. Please consult appropriate dealer if you have questions relating to the adapter.

Power Source

4 alkaline type "AA" batteries (1.5 V)
or stabilized AC/DC Adapter
6 V DC 800 mA

How to Operate the Unit

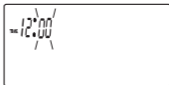
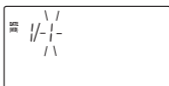
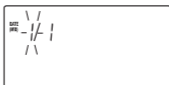
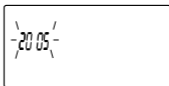
1. Setting the Clock

To enter the setting mode by pressing and holding the memory key for over 3 seconds.

The display will show a blinking year.

Press the power key to adjust the year when it is blinking.

Then press and release the memory key again, the “month” will appear and blink to be adjusted, and then “date”, “hour” and “minute” will follow up as you press and release the memory key again.



To adjust the clock

Press the memory key to adjust the values of the “month”, “date”, “hour”, and “minute” when they are blinking

GB

How to Operate the Unit

2. Measuring Blood pressure

Press and release the POWER key to start measuring automatically



→ Initial display



→ Pumping




→ Measuring and Buzzer sounds.

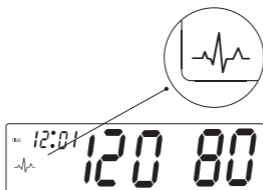


When the measurement is finished, the display will show the measured blood pressure and pulse value. Press the power key to turn off the unit. Otherwise the unit will turn off automatically 150 seconds later.

GB

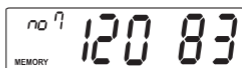
How to Operate the Unit

Note: If the symbol  appears, it means the unit has detected irregular pulse during measurement. If the symbol appears regularly please consult a qualified physician for professional advice.



3. Recalling Memories

Press and release the MEMORY key to recall the last reading (Example: the no.7 memory). The display will show the memorized pressure and pulse value switching back and forth.



Press and release the MEMORY key again to recall the no.6 memory.

Press and release repeatedly to read the no 5, 4, 3, 2, 1 memorized pressures.

GB

How to Operate the Unit

4. Erasing Memories

You may erase one or all records in memory.



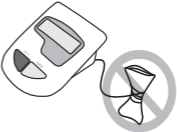

Delete one Record

1. Press and release MEMORY key to choose the record that you wish to delete
2. Press and hold the POWER key until the display shows "dEL".
3. Press and release the power key again.
After 3 beeps are heard, the unit erases the record.

Delete all records

1. Press and release MEMORY key to choose the record that you wish to delete.
2. Press and hold the POWER key until the display shows "dEL".
3. Press and release the MEMORY key then the display shows "dEL ALL".
4. Press and release the POWER key. After 3 beeps are heard, the unit erases all records.

Care and Maintenance

<p>Do not drop the unit. It is not shock-proof.</p>	 An illustration of a white, rectangular electronic unit falling. A large grey circle with a diagonal slash (prohibition sign) is overlaid on the unit. Two small black marks above the unit suggest motion or impact. A shadow is cast on the surface below the unit.
<p>Do not modify or disassemble the unit or the arm cuff.</p>	 An illustration of the white electronic unit. A screwdriver is shown with its tip touching the top surface of the unit. A large grey circle with a diagonal slash (prohibition sign) is overlaid on the screwdriver.
<p>Do not twist the arm cuff.</p>	 An illustration of the white electronic unit with its arm cuff attached. The arm cuff is shown in a twisted position. A large grey circle with a diagonal slash (prohibition sign) is overlaid on the twisted cuff.
<p>Use a cloth mois- tened with water or neutral detergent to clean the body of the unit and then wipe it dry.</p>	 An illustration of a hand holding a white cloth and wiping the side of the white electronic unit.

GB

Care and Maintenance

Avoid thinner, benzene, and other harsh cleaners.



Keep the unit in a suitable place. Avoid high temperature, direct sunlight, high moisture, and dust.



Remove the batteries if the unit will not be used for a long time.









Do not press the POWER button if the cuff has not been properly wrapped around the arm.



GB

Error Message

Message	Correction
	The pressure measured was lower than 20mmHg. Please measure again.
	The pressure measured was higher than 300mmHg. Please measure again.
	Pumping error. Please check cuff and try again
	The pressure can not be measured due to signal noise. Please measure again.
	The pumping pressure is higher than 300mmHg. Please measure again.
	Low battery. Check and replace the 4 batteries if necessary.

GB

Specifications

Display System	Liquid Crystal Display
Measuring Method	Oscillometric
Power Source	4 alkaline type „AA“ batteries (1.5V) or AC/DC adapter (optional)
Measuring Range	20~300mmHg
Accuracy	40~200 pulse/minute ±3mmHg
Inflation	±5% pulse rate Micro rolling pump
Pressure Exhaust	Electrical Solenoid Valve
Memory	85 sets
Display	LCD (year/date/time, pressure and pulse)
Low Battery Indicator	Yes
Auto Power-Off	150 secs. w/o any operation
Battery Life	Around 250 operations
Operating Environment	+10°C~+40°C; RH<85% (+50°F~+104°F)
Storage Environment	-10°C~+50°C; RH<85% (-14°F~+122°F)
Dimensions	156(W)x167(D)x54(H)mm
Weight	Around 550g (including batteries)

Specifications are subject to change for improvement without notice.

Calibration is recommended every two years.

Quality Standard

The device complies with the Council Directive 93/42/EEC of 14th June 1993 concerning medical devices. A Quality management system, certified according to EN ISO 13485 guarantees the high quality standard of the product.

The Blood pressure monitor conforms to EN 1060-1 (Non invasive sphygmomanometers part 1: General requirements) and EN 1060-3 /Non invasive sphygmomanometers part 3: Supplementary requirements for electromechanical blood pressure measuring systems.