

BLOOD PRESSURE MONITOR | Wrist

Instruction Manual
Model: W250



Advancing
Home Monitoring
Since 1973

Go to biosmedical.com
for a FREE Log Book!



BIOS VP of Marketing - Mark Beaton accepts the 2017 Hypertension Canada Certificate of Excellence from Angelique Berg, CEO of Hypertension Canada

Trusted by Canadians for 3 Generations

At BIOS Diagnostics™, we are proud of our legacy in blood pressure monitoring in Canada. From the early 1930's to 1987 we manufactured "Tycos" brand professional blood pressure equipment for doctors and hospitals in Canada.

In the 1970's we pioneered the first blood pressure devices for monitoring at home, and in the 1980's we introduced digital technology in Canada. We haven't been counting, but we know that millions of our home-use monitors have been used by Canadians in the last 30 years.

All BIOS Diagnostics™ devices are developed in collaboration with physicians and clinically tested to prove their measurement accuracy.

For more information on clinical tests and other BIOS medical products, visit our website at **www.biosmedical.com**.

If you have questions about this device or blood pressure monitoring at home, email us at **support@biosmedical.com** or call the **BIOS Medical Hotline 1-866-536-2289**.

Blood Pressure Monitor – Wrist

Instruction Manual

Table of Contents

1. Introduction

- 1.1 Features
- 1.2 Important Information
 - 1.2A Safety Information
 - 1.2B Care of the Device
 - 1.2C Comparing Readings to Other Blood Pressure Devices
 - 1.2D Calibration
- 1.3 What Do Your Numbers Mean?
- 1.4 Normal Blood Pressure Values
- 1.5 Common Blood Pressure Questions and Answers

2. Getting Started

- 2.1 About the W250
- 2.2 About the LCD Screen
- 2.3 Inserting the Batteries

3. Using the Device

- 3.1 Select the User
- 3.2 Setting Time, Date, and Year
- 3.3 Obtaining Accurate Measurements
 - 3.3A Tips on Taking Accurate Measurements
 - 3.3B Common Sources of Error
 - 3.3C Fitting the Wrist Cuff
- 3.4 Measuring Your Blood Pressure
- 3.5 Discontinuing a Measurement
- 3.6 Determining Your “Real” Average Blood Pressure at Home
- 3.7 Recall the Memory with the Power Off
- 3.8 Clear Measurements from Memory
- 3.9 Blood Pressure Assessment Indicator

4. Error Messages/Malfunctions

5. Care and Maintenance

6. 5 Year Limited Warranty

7. Technical Specifications

1. Introduction

Thank you for purchasing the BIOS Diagnostics™ Wrist Blood Pressure Monitor. Designed for convenient and easy operation, this device provides a simple, yet accurate method to measure your blood pressure.

Your blood pressure is an important parameter that can be used to monitor your health. This device enables you to monitor your blood pressure regularly, and maintain a record of your blood pressure measurements. You can then use this record to assist your physician in diagnosing and maintaining a healthy blood pressure level.

Wrist Models Recommended by Hypertension Canada

In their 2018 guidelines to Canadian physicians, Hypertension Canada recommended wrist models for patients with very large arms (BMI ≥ 35) and for patients that find the inflation of the upper arm cuff too painful.

Indications for Use:

This blood pressure monitor (W250) is intended to measure the systolic/diastolic pressure, and pulse rate of an adult individual by using a non-invasive oscillometric technology. This device is designed to be portable, and used in both home and professional environments for every day blood pressure monitoring.

1.1 Features

- **Memory Features** 2 users, 150 blood pressure readings each with time and date.
- **BP Assessment Indicator** displays the range between which your blood pressure values lie, according to the World Health Organization (WHO).
- **Detects Irregular Heartbeat**
- **3X Averaging** - Takes 3 blood pressure measurements consecutively and

- averages them to provide one reading (when in the correct setting).
- **BIOS Averaging** - Averages the last 3 readings.

This device is easy to use, and has been proven in clinical studies to provide excellent accuracy. Before using the W250, read this instruction manual carefully and keep it in a safe place.

The blood pressure monitor meets the accuracy requirements of Hypertension Canada and has been tested for clinical accuracy.

1.2 Important Information

Refer to the following sections to learn about important safety instructions and how to take care of the BIOS Diagnostics™ Blood Pressure Monitor - Wrist.

1.2A Safety Information

- Self-measurement means control, not diagnosis or treatment. Your values must always be discussed with your doctor or a physician who is familiar with your family history.
- If you are undergoing medical treatment and receiving medication, consult your doctor to determine the most appropriate time to measure your blood pressure. Never alter the dosages of any medication without direction from your doctor.
- Your blood pressure depends on several factors, such as age, gender, weight, and physical condition. It also depends on the environment and your state of mind at the time of measurement. In general, your blood pressure is lower when you are asleep and higher when you are active. Your blood pressure may be higher when recorded at a hospital or a clinic and may be lower when measured in the relaxing comfort of your home. Due to these variations, we recommend that you record your blood pressure regularly at home

as well as at your doctor's clinic.

- Try to record your blood pressure regularly at the same time of the day and under the same conditions. This will help your physician detect any extreme variations in your blood pressure and thus treat you accordingly.
- Morning Hypertension (>130/80 mmHg): Recently, several studies have identified elevated cardiovascular risks (heart failure, stroke, angina) associated with "morning hypertension". There is a typical rise in blood pressure during the physiological changes from sleep to arising for the day.
- The ideal times to measure your blood pressure is in the morning and at least 2 hours after dinner. Measure just after you wake up, before breakfast and any physical activity, and in the absence of the urge to urinate. If this is not possible, try to take the measurements later in the morning, before you start any physical activity. Relax for 5 minutes before you record your blood pressure.
- The cuff should not be applied over wounds as it may cause further injury.
- **DO NOT** attach the cuff to an arm being used for IV infusions or any other intravascular access, therapy or an arteriovenous (A-V) shunt. The cuff inflation can temporarily block blood flow, potentially causing harm to the individual.
- Your blood pressure increases or decreases under the following circumstances:

Blood pressure is higher than normal:

- When you are excited, nervous, or tense
- While taking a bath/shower
- During and after exercise or strenuous physical activity
- When it is cold
- Within two hours after meals
- After drinking tea, coffee, or other caffeinated drinks

- After smoking tobacco
- When your bladder is full

Blood pressure is lower than normal:

- After consuming alcohol
- After taking a bath/shower

- The pulse display is not suitable for checking the frequency of heart pacemakers.
- If you have been diagnosed with a severe arrhythmia or irregular heartbeat, vascular constriction, liver disorders, or diabetes, have a cardiac pacemaker, or are pregnant, measurements made with this instrument should only be evaluated after consultation with your doctor.
- Take care while handling the batteries in the device. Incorrect usage may cause battery fluid leakage.

To prevent such accidents, refer to the following instructions:

- Insert batteries with the correct polarity, do not use rechargeable batteries.
- Turn off power after use. Remove and store the batteries if you are not planning to use the device for an extended period of time.
- **DO NOT** mix different types, brands, or size of batteries. This may cause damage to the product.
- **DO NOT** mix old and new batteries.
- Remove batteries and dispose of them according to the proper regulations in your area.
- **DO NOT** disassemble batteries or expose them to heat or fire.
- **DO NOT** short-circuit the batteries.

1.2B Care of the Device

For prolonged life of your blood pressure monitor, note the following

instructions:

- **DO NOT** drop or bang the unit. Prevent sudden jerks, jars, or shocks to the device to prevent damage.
- **DO NOT** insert any foreign objects in any device openings or vents.
- **DO NOT** disassemble the unit.
- If the unit has been stored at very low or freezing temperatures, allow it to reach room temperature before use.
- **DO NOT** store the unit in direct sunlight, high humidity, or in places with a lot of dust.
- Clean the device with a soft dry cloth. **DO NOT** use gasoline, thinner, or similar solvents. Carefully remove spots on the cuff with a damp cloth and soap.
- **DO NOT** wash the cuff.
- **DO NOT** use the device if you think it is damaged or if anything appears unusual.
- Ensure that children do not use this device unsupervised; some parts are small enough to be swallowed.
- Using the unit in the immediate vicinity of mobile phones, microwave appliances, or other devices with strong electromagnetic fields may result in impaired functioning.
- **DO NOT** use this device close to strong electromagnetic fields, such as mobile telephones or radio installations. Keep a distance from such devices when using this unit.

1.2C Comparing Readings to other Blood Pressure Devices

Many questions arise when two blood pressure devices are compared in an effort to check accuracy. An accurate comparison requires repeatable measurements under the same conditions to a “reference device” with known

accuracy. Significant time is required to reduce naturally occurring blood pressure variability during the test. The subject should be seated comfortably with feet flat on the floor, and have rested for 5 minutes before the first reading to allow blood pressure levels to stabilize. The patient's back, elbow, and forearm should be supported, and the middle of the cuff should be at the level of the right atrium. There should be no talking or moving during the measurement and if comparing to an aneroid gauge or mercury column, observers should avoid parallax and be careful not to round measurements.

The most accurate way to compare devices is to take two readings at the same time. However, most people and doctor's offices do not have the equipment necessary to measure blood pressure from two devices simultaneously. To take sequential measurements properly requires a pair of initial measurements to determine the subject's blood pressure level: first with the reference equipment, followed by 60 seconds, then with the monitor-under-test. The actual accuracy test requires three pairs of measurements with 60 seconds between measurements. These measurements are averaged and a comparison can be made. Since most people tend to relax and their blood pressure falls with subsequent measurements, following this protocol reduces these natural changes in blood pressure levels. The standard technical error of both consumer and professional devices is normally ± 3 mmHg, so a discrepancy of 6 mmHg is acceptable even when the devices are working within their specifications.

Any comparisons without a known "reference device" and not following the procedures described above will yield unreliable results. In addition, to do an accuracy test properly the reference device must also be tested to a known reference to confirm its accuracy, prior to being used as the reference for comparisons.

1.2D Calibration

Digital blood pressure monitors do not require regular recalibration, unless the product has been dropped and internal parts have been damaged. If the unit turns on and does not display an error code, the product is working properly. In extremely rare cases, the cuff may have developed a pin-hole leak, or the gasket where the cuff connector enters the monitor may not have a proper seal; both of these leaking air issues will potentially cause errors in accuracy, but otherwise the product will work accurately without drifting out of calibration.

1.3 What Do Your Numbers Mean?

Blood pressure is the pressure in your blood vessels while blood circulates throughout your body. High blood pressure or “Hypertension” is the pressure at which one's normal average blood pressure is considered too high and other health risks including: heart attack, stroke, dementia, kidney failure, heart disease and erectile dysfunction may occur. It is expressed as two numbers: systolic/diastolic 120 mmHg/80 mmHg (mmHg= millimeters of mercury). “Systolic” numbers refer to the pressure on the walls of your arteries while the heart is contracting and pushing blood. “Diastolic” pressure is the lower number when the heart is at rest and relaxed. A simple way to understand this is to picture a garden hose. When the tap is turned on, the immediate pressure on the walls of the hose is the “systolic” number, and when the tap is turned off it is the “diastolic” number.

There are many different causes of high blood pressure. We differentiate between common primary (essential) hypertension, and secondary hypertension. The latter group can be ascribed to specific organic malfunctions. Please consult your doctor for information about the possible origins of your own increased blood pressure values.

1.4 Normal Blood Pressure Values

When rested, and measuring your blood pressure at home, measurements with diastolic pressure readings above 80 mmHg or systolic readings over 130 mmHg are considered high. If you obtain consistent readings in this range, consult your doctor immediately. High blood pressure values over time can damage blood vessels, vital organs such as the kidney, and your heart. With blood pressure values that are too low (i.e., systolic values under 105 mmHg or diastolic values under 60 mmHg), consult with your doctor.

Systolic	Diastolic	Comment
Below 120	Less than 80	The range is considered "Optimal" .
120 - 129	70 - 79	This range is considered "Elevated" or "Pre-hypertension" . Discuss with your health care professional. Lifestyle modifications may be required to avoid advancing into hypertension.
130 - 139	80 - 89	This is in the "Hypertension" range. Discuss with your health care professional. Medication(s) and lifestyle modifications are typical treatments.
140 - 179	90 - 119	Discuss with your health care professional. Medication(s) and lifestyle modifications are typical treatments.

180 and above	120 and above	This is in the “Hypertensive Crisis” range. Consult your doctor immediately, or go to the hospital if you are experiencing any chest pain, shortness of breath, or symptoms of stroke.
---------------	---------------	---

Adapted to include new information as outlined in Hypertension Canada’s 2025 Understanding and measuring your blood pressure guideline.

Important for Canadians:

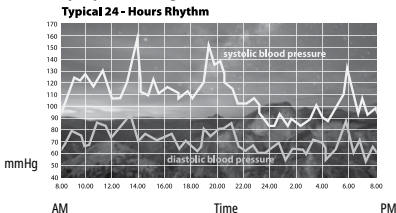
*** Hypertension measured at home $\geq 130/80$**

For further information, see our website www.biosmedical.com.

1.5 Common Blood Pressure Questions and Answers

a) Why is my blood pressure reading always different?

Your blood pressure changes constantly. It is quite normal for blood pressure to fluctuate as much as 50 mmHg throughout the day. Blood pressure is normally lowest at night, but increases during waking hours when the stress and activities of everyday life are highest.



b) Why is the doctor's reading different from the reading taken at home?

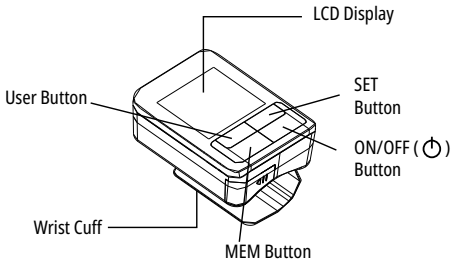
Your blood pressure can vary due to the environment (temperature, nervous condition). When measuring blood pressure at the doctor's office, it is possible for blood pressure to increase due to anxiety and tension, this is known as "White Coat Hypertension". It is not uncommon for blood pressure values to vary during an office visit.

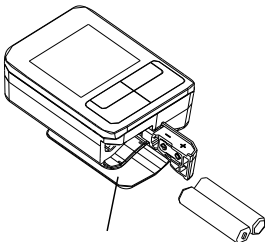
c) Why should I monitor blood pressure at home?

One or two readings will not provide a true indication of your normal blood pressure. It is important to take regular, daily measurements and to keep records over a period of time. This information can be used to assist your physician in diagnosing and preventing potential health problems.

2. Getting Started

2.1 About the W250

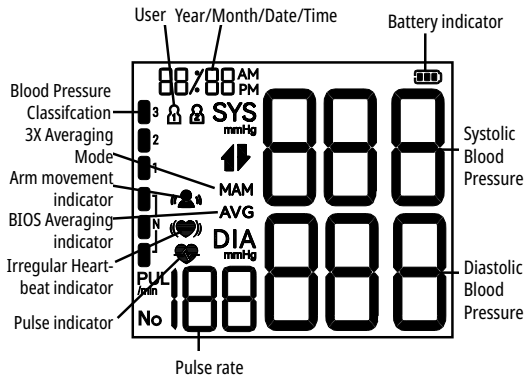




Battery Cover

2.2 About the LCD Screen

The LCD screen displays the systolic and diastolic blood pressure measurements along with your heart rate. It also displays previously recorded measurements and the date and time, when the appropriate button is pressed.



2.3 Inserting the Batteries

Follow these steps to insert the two "AAA" batteries in the device.

1. Open the battery compartment cover in the direction shown.
2. Insert the two "AAA" batteries with the correct polarity as indicated.
3. Replace the battery compartment cover.

NOTE: Replace the batteries whenever the weak battery mark shows , the display is dim, or the display does not illuminate when the power is on. Replace all the batteries at the same time - it is dangerous to mix old and new

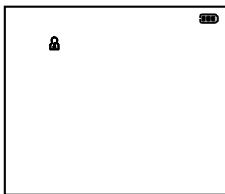
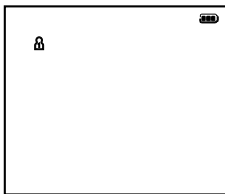
batteries. Contact your local waste disposal authority for instructions on how to dispose of used batteries. Used batteries can be harmful to the environment, and should not be thrown out with household trash.

3. Using the Device

This section describes how to get the maximum benefit from your wrist blood pressure monitor. Follow the instructions carefully to get an accurate measurement of your blood pressure and pulse rate.

3.1 Select the User

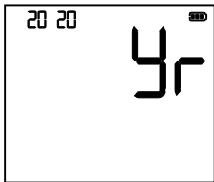
1. Start with the power off, but with batteries inserted.
 2. Press the **USER** button to toggle between user  or .
- Press the **ON/OFF** () button to confirm your choice.



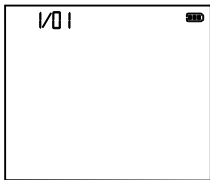
3.2 Setting Time, Date and Year

1. Start with the power off but batteries inserted.
2. Press the **SET** button to enter Time/Date mode.

3. The year will be set first. Use the **MEM** button to choose the year and press **SET** to store your choice in the memory.



4. Repeat the same process to set the MONTH by using the **MEM** button. Press the **SET** button to store it in the memory.
5. The same process is repeated to set the DATE.



6. TIME; hours, and then minutes can be set following the same procedure by using the **MEM** button. Finish the process by pressing the **SET** button. The USER, YEAR, MONTH, DATE, HOUR and MINUTES will all be stored in the product's memory.

7. Next, you will be prompted to select either a 12 or 24 hour clock setting. Do so using the **MEM** button to toggle between the 2 options, and the **SET** button to select.
8. You can then select between two date views using the same button selection method:
 - a. US (Month/Date)
 - b. EU (Date/Month)

After setting the date view, you will be asked to select CON OFF or CON ON. This selection activates the 3X Averaging feature. This is further explained in section **3.4 Measuring Your Blood Pressure**.

To change any setting you must repeat the process and confirm each setting by pushing the **SET** button.

3.3 Obtaining Accurate Measurements

Your blood pressure can vary based on numerous factors, physiological conditions, and your surroundings.

Follow these guidelines to obtain accurate and error-free measurements of your blood pressure and pulse rate.



In the morning before breakfast, 2 hours after dinner, before taking medication.



Avoid coffee and smoking within the hour, and no exercise 30 minutes before measuring.



Do not speak while taking the measurement.



Sit with legs uncrossed so as not to restrict blood flow.



Ensure that the cuff is level with the heart while the arm is supported on the table.



Empty bladder (if necessary).



Rest quietly for 5 minutes.

Remain calm and quiet while the measurement is in process.



Take measurements on the non dominant arm.



Sit with back supported and measurement arm resting on a table. Sit with feet flat on the floor.

3.3B Common Sources of Error

All efforts by the patient to support the arm can increase the blood pressure. Make sure you are in a comfortable, relaxed position and do not activate any of the muscles in the measurement arm during the measurement. Use a pillow or towel to support the arm if necessary.

ATTENTION!

Comparable blood pressure measurements always require the same conditions with a peaceful and calm environment. Ensure that you take measurements under the same conditions to obtain accurate and reliable readings.

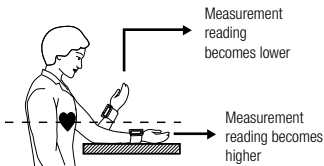
- If the arm artery lies considerably lower or higher than the heart, an erroneous value of blood pressure is measured. Each 15 cm difference in height results in a measurement error of 10 mmHg.
- A loose cuff causes false measurement values.
- With repeated measurements, blood accumulates in the arm, which can lead to false results. Consecutive blood pressure measurements should be repeated after at least a 15 second pause or after the arm has been held up in order to allow the accumulated blood to flow away.

3.3C Fitting the Wrist Cuff

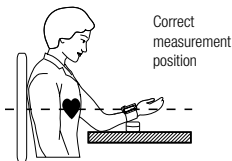
- a) Remove all accessories (watch, bracelet, etc.) from your left wrist. If your physician has diagnosed you with poor circulation in your left arm, use your right wrist.
- b) Roll or push up your sleeve to expose the skin.
- c) Apply the cuff to your left wrist with your palm facing up and the LCD display facing you.
- d) Fit the cuff comfortably but not too tight. The cuff will cover a wrist circumference of 13.5 to 21.5 cm (5.25 to 8.5 inches).

3.4 Measuring Your Blood Pressure

IMPORTANT: Support your arm in a relaxed position and ensure that the instrument is at the same height as your heart. You can use a rolled up hand towel or the storage case.



Incorrect



Correct

- Remain seated in a comfortable room temperature for at least 5 minutes, then start the measurement.
- Press the **ON/OFF** button to start the measurement. The device will quickly complete a self-diagnosis check, then emit a long tone indicating the start of the blood pressure measurement.
- The cuff will now pump up automatically. Relax, do not move and do not tense your arm muscles until the measurement is displayed. Breathe normally and do not talk.
- When the correct pressure is reached, the pump stops and the pressure

falls gradually. If the required pressure was not reached, the instrument will automatically pump some more air to the cuff.

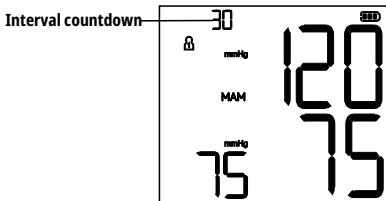
- e) During the measurement, the heart symbol flashes  on the display when the device detects a pulse.
- f) At the end of the measurements, the device will emit 4 short beeps. The result, comprised of systolic and the diastolic blood pressures, as well as pulse will be displayed along with any applicable icons. See section **2.2 About the LCD Screen** for explanation of the icons.
- g) The measurement remains on the device until the unit is turned off. If no additional buttons are pressed, the unit will automatically turn off in 3 minutes.

3X Averaging Mode Measurements

To take 3 continuous measurements in the 3X Averaging mode, follow the steps below:

- a) First, you need to turn ON the 3X Averaging mode. With the device off, press the **SET** button 8 times until you see CON OFF on the screen (if you see CON ON it means that 3X Averaging mode is already activated). Use the **MEM** button to toggle between ON and OFF. Use the **SET** button to select your choice.
- b) Press the **ON/OFF** () button to turn the device off, the mode selection will remain saved.
- c) Apply the cuff properly to the wrist and press the **ON/OFF** () button to begin the readings.

- d) The device will automatically take 3 blood pressure readings in a row. At the end of each reading the measurement data will be shown, and a 30 second countdown will begin before the subsequent measurement starts.



- e) At the end of the 3 measurements, the average value of the three readings will be displayed on the screen.

NOTE: If there was an error during one of the measurements, the device will shut off, and not display a final averaged value.

Irregular Heartbeat Indicator during Measurements

The symbol “(♥)” will be displayed along with the reading if an irregular heartbeat has been detected during the measurement. If the “(♥)” symbol appears frequently (e.g. several times a week), it may be an indication of a more serious heart problem, and you should consult your doctor.

Irregular heartbeat rhythm is defined as rhythm that is either 25% slower or faster than the average rhythm detected while measuring systolic blood pressure and diastolic blood pressure.

Arm Movement Indicator during Measurements

The symbol “” may flash during a measurement if there is arm movement during the reading. If you see this icon displayed, it means that the reading values may be inaccurate, and you should re-take the measurement again being sure to remain still for the entire duration.

3.5 Discontinuing a Measurement

You can stop the measurement at any time by pressing the **ON/OFF** () button (e.g. if you feel uneasy or an unpleasant pressure sensation).

3.6 Determining Your “Real” Average Blood Pressure at Home

It is normal for blood pressure to vary significantly in the middle of the day when most people are busy with their daily tasks. Hypertension Canada recommends measuring in the morning and evening to avoid variability. At the end of a measurement, this instrument automatically stores each result, including date and time.



AM

Take: 2 measurements, 1 minute apart

- Empty bladder (if necessary)
- In the morning before breakfast, before taking medication
- Sit with back supported and measurement arm resting on a table.
Sit with feet flat on the floor.



PM

Take: 2 measurements, 1 minute apart

- Empty bladder (if necessary)
- 2 hours after dinner, before taking medication
- Sit with back supported and measurement arm resting on a table.
Sit with feet flat on the floor.
- Avoid coffee and smoking within the hour, and no exercise 30 minutes before measuring.



RESULTS

Discard Day 1 measurements.

Average your day 2-7 measurements

= Average

< 130/80 mmHg

= NO

No Hypertension

≥ 130/80 mmHg

= YES

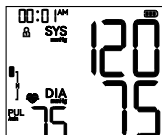
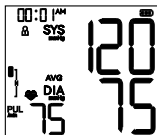
Yes Hypertension

***Note: If the result is “borderline” repeat the series for confirmation.
This data can be used by a medical professional to make a diagnosis of hypertension.**

3.7 Recall the Memory with the Power Off

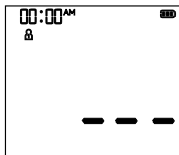
This blood pressure monitor automatically stores 150 measurements for each user in its memory. The oldest record will be replaced by the latest measurement value when there are more than 150 sets for each user.

Press the **MEM** button. The average of the last 3 measurements will be shown. Continue to press the **MEM** button to cycle through individual measurement history with date and time information.



3.8 Clear Measurements from Memory

If you are sure that you want to permanently remove all stored memories from a specific user, with the power off, press and hold the **MEM** and **ON/OFF** (⏻) buttons at the same time for approximately 3 seconds. The monitor will beep, indicating the deletion was successful.



Press the **ON/OFF** (⏻) button to turn the unit off.

NOTE: Ensure you are under the correct user before following the above steps, as the memory cannot be recovered once it has been deleted.

3.9 Blood Pressure Assessment Indicator

The bars on the left hand side of the display show you the range within which the indicated blood pressure values lies. Depending on the height of the bar, the readout value is either within the normal (green), borderline (yellow) or danger (red) range.

The classification is based on standards adopted from the WHO*

Adapted to include new information as outlined in Hypertension Canada's 2025 Understanding and measuring your blood pressure guideline.

Refer to the chart below for details of the classification.

	SYS (mmHg)	DIA
Red	180 ▲	120 ▲
Red	140-179	90-119
Red	130-139	80-89
Yellow	120-129	70-79
Green	110-119	70-79
Green	▼110	▼70

For further information, see our website www.biosmedical.com.

- If the bar lines up with the first or second green bar, your measurement is in the green zone, or "Normal".

- If the bar lines up with the third bar, it is in the yellow zone, and is considered elevated, or pre-hypertension.
- If the bar lines up with the fourth bar, it is in the red “Stage 1 Hypertension” zone.
- If the bar lines up with the fifth bar, it is in the red “Stage 2 Hypertension” zone.
- If the bar lines up with the sixth bar, it is in the red “Hypertensive Crisis” zone.

4. Error Messages/Malfunctions

If an error occurs during a measurement, the LCD displays the corresponding error code.

Error	Possible Cause	Remedy
Er1	Cannot detect high or low pressure	Ensure that the cuff is fastened properly before starting measurement.
Er2	Cuff is loose	Ensure that the cuff is fastened properly before starting measurement.
Er3	Improper compression caused by arm or body movement	Ensure that the both the body and arm are held still for the duration of the measurement.

Er4	Pressure exceeds 300 mmHg	Ensure that the cuff is fastened properly before starting measurement.
Er5	Pressure exceeds 15 mmHg for 3 minutes	Check to ensure that the cuff is not knotted, or that the vent valve is not obstructed.
Er6	Blood pressure measurements are out of normal range	Rest for 5 minutes and try measurement again.
	Low/depleted battery	Replace batteries.

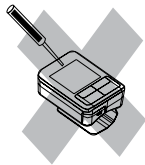
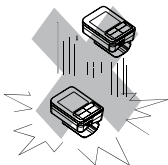
If problems occur when using the device the following points should be checked, and if necessary, the corresponding measures should be taken.

Malfunction	Remedy
The display remains blank when the device is switched on.	1. Check batteries for correct polarity. 2. Check to see if batteries need to be replaced.
The device frequently fails to measure the blood pressure values, or the values measured are too low or too high.	1. Check the positioning of the cuff and cuff tension. The cuff should be snug but not tight. 2. Measure the blood pressure again, ensuring that you have remained motionless for a sufficient amount of time to ensure an accurate reading.
Every measurement produces varying results although the instrument functions normally and the values displayed are normal.	Note that blood pressure fluctuates continuously; therefore measurements will show some variability.
Blood pressure values measured differ from those measured by the doctor.	Record daily measurements for consultation with your doctor. Note: Individuals visiting their doctor frequently experience anxiety, which can result in a higher blood pressure reading than at home.

**For assistance, call BIOS Medical Blood Pressure Hotline:
1-866-536-2289.**

5. Care and Maintenance

- a) Do not expose the device to either extreme temperatures, high humidity, dust, or direct sunlight. If the unit has been stored at a very low or freezing temperature, allow it to reach room temperature before use.
- b) Clean the device with a soft, dry cloth. Do not use gas, thinners, or similar solvents. Dirt on the cuff should be removed with a damp cloth and soap. Do not put in the washing machine or dishwasher. Do not submerge in water.
- c) The monitor contains sensitive parts, and should be treated gently.
- d) Never open the monitor. This invalidates the manufacturer's warranty.
- e) Batteries and electronic instruments must be disposed of in accordance with the locally applicable regulations, not with domestic waste.
- f) Take care while handling the batteries in the device. Incorrect usage may cause battery fluid leakage.



6. 5 Year Limited Warranty

This BIOS Diagnostics™ blood pressure monitor has a 5 year limited warranty to be free of defects from the date of purchase. Only applicable to the original owner. This warranty does not include the inflation system including the cuff and inflation bladder. The warranty does not cover damage from misuse or tampering.

100% Satisfaction Guarantee

If at any time, you are not completely satisfied with the performance of this device, call our BIOS Medical Hotline and speak with a customer service person, who will make arrangements to have the device tested or replaced to your full satisfaction.

If you have questions regarding the operation of your monitor call the **BIOS Medical Hotline: 1-866-536-2289.**

Should correction be necessary, return the unit with all component pieces. Enclose proof of purchase and \$5.00 for return shipping and insurance. Ship the unit prepaid and insured (at owners option) to:

THERMOR LTD.

Returns Department

16975 Leslie Street

Newmarket, ON L3Y 9A1

www.biosmedical.com

Email: support@biosmedical.com

Please include your name, return address, phone number, and email address. Thermor will test or replace (at Thermor's option) free of charge any parts necessary to correct the defect in material or workmanship.

Please allow 10 days for return shipping.

7. Technical Specifications

Operating Environment	Temperature: 10°C-40°C (50°F-104°F) Humidity: 15%-93% RH Pressure: 800hPa-1060hPa
Storage/Transport Environment	Temperature: -25°C-55°C (-13°F -131°F) Humidity: ≤93% RH
Cuff Size	13.5-21.5 cm (5.3"-8.5")
Weight	Approx. 113g (without battery)
Dimensions	Approx. 86mm×64mm×30mm (L x W x H)
Measuring Method	Oscillometric Method
Measurement Range	0-299 mmHg
Pulse Range	40-180 beats per minute

Resolution	1 mmHg	
Static Accuracy	± 3 mmHg	
Pulse Accuracy	$\pm 5\%$ of the reading	
Power Source	2 Alkaline Batteries Size AAA	
Battery Lifetime	Approximately 2 months at 3 tests per day	
Reference to Standards	IEC 60601-1 IEC 60601-1-11 IEC 60601-1-2 IEC 80601-2-30:2019	ISO 14971:2019 ISO 10993-1 ISO 10993-5 ISO 10993-10



Read the instruction manual carefully before using this device, especially the safety instructions, and keep the instruction manual for future use.



Type BF applied part



Batteries and electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.



BIOS | Medical

 MANUFACTURED BY/FABRIQUÉ PAR :

THERMOR LTD.

16975 LESLIE STREET

NEWMARKET, ON L3Y 9A1

MADE IN CHINA/FABRIQUÉ EN CHINE

WWW.BIOSMEDICAL.COM



100% Canadian Owned & Operated

Propriétaire-exploitant canadien à 100 %