INSTRUCTION FOR USE

EN

DIAGNOSTIC®

DM-300 IHB

AUTOMATIC UPPER ARM BLOOD PRESSURE AND PULSE MONITOR

DIAGNOSIS S.A.
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MD REF 5121

CE 0197

Rev. 2024.12.12 v.9/ EN

CONTENTS

THANK YOU FOR PURCHASING THE DIAGNOSTIC DM-300 IHB BLOOD PRESSURE AND PULSE MONITOR

This model can be used with an irregular pulse. If the device detects an irregular pulse, the symbol ((♥)) will appear on the display.

NOTE: We recommend to contact your doctor if this symbol ((♥)) appears frequently.

Please read this instruction for use carefully before using the device for the first time. Please keep the instructions for use. The information contained therein may be needed in future. For detailed information about your blood pressure, please consult your doctor. The device should be used for its intended purpose. Read the instruction for use before the first usage.

1. SYMBOLS EXPLANATION

Symbol	Warning signs and used symbols		
⊕ AA ⊖	Indication of battery polarity		Isolation of Class II
	Mandatory		Direct current
	Caution		Date of manufacture
SN	Serial number		Manufacturer
UDI	Unique Device Identifier		Prohibited
MD	Medical device		Application part type BF
Rev.	Date of the last revision		Humidity limit
SYS	Systolic blood pressure		Atmospheric pressure limit
DIA	Diastolic blood pressure		Temperature limit
PUL./min	Pulse. Number of beats per minute	REF	Catalogue number
((♥))	Irregular pulse symbol	LOT	Batch Code
	Symbol of pulse detection during the measurement		
	Keep dry		
	Keep away from sunlight		
	Follow instructions for use		
IP20	Protection against the bodies over 12.5 mm (accidental finger touch).		
CE 0197	The product confirms to the requirements of the EC Directive MDD (93/42/EEC) on medical devices		

⚠ CAUTION

	Persons with serious circulation problems may experience discomfort. Consult your physician prior to use.
	Contact your physician if test results regularly indicate abnormal readings. Do not attempt to self-treat these symptoms without consulting your physician first.
	Product is designed for its intended use only. Do not misuse in any way.
	Product is not intended for infants.
	Do not disassemble or attempt to repair.
	Do not use cell phones and other devices, which generate strong electrical or electromagnetic fields, near the device, as they may cause incorrect readings and interference or become interference source to the device.
	Use only a recommended AC adaptor complying with EN 60601- 1 and EN 60601-1-2. An unauthorized adaptor may cause fire and electric shock.

⚠ CAUTION- Battery Precautions

Do not mix new and old batteries simultaneously.
Replace batteries when Low Battery Indicator 🪫 appears on the screen.
Insert the batteries being careful to observe the correct polarity indicated in the battery compartment.
Do not mix battery types. Long-life alkaline batteries are recommended.
Remove the batteries from device when it is not used for more than 3 months.
Dispose batteries properly; observe local laws and regulations.

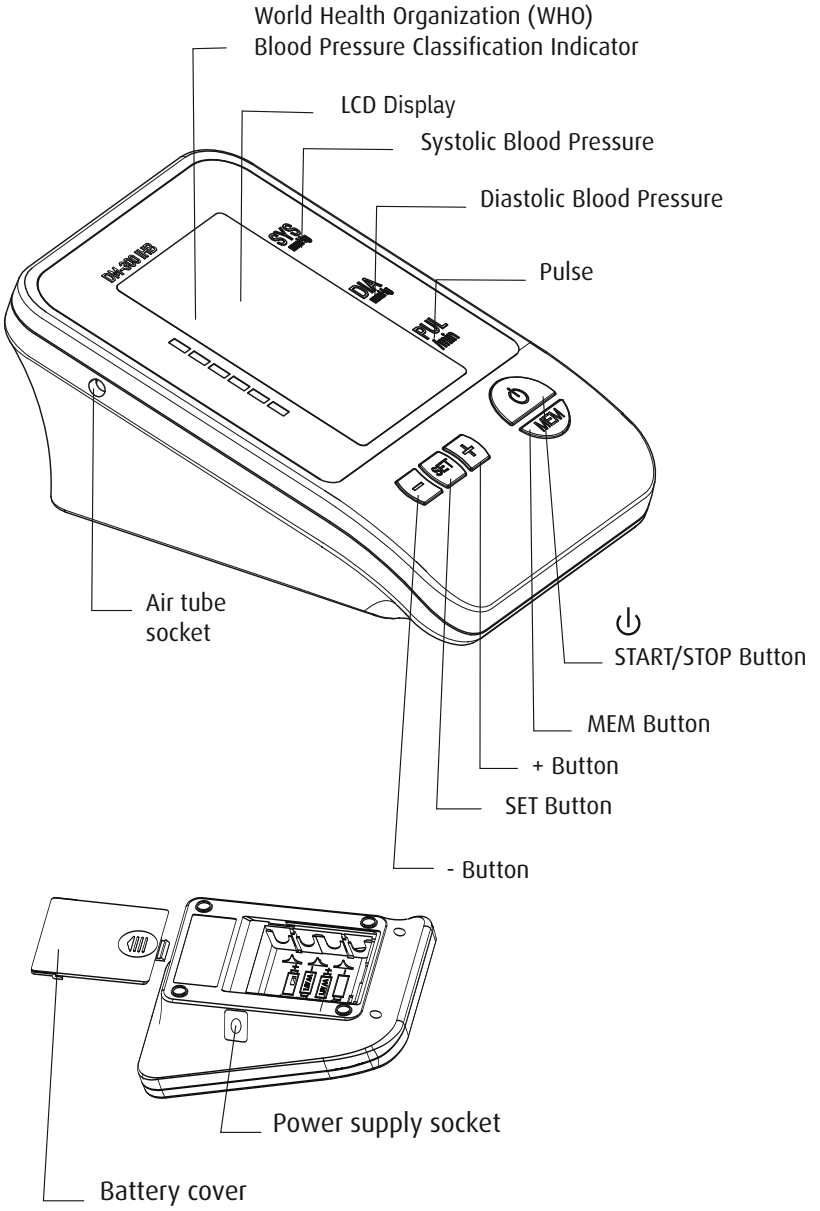
2. SAFETY INFORMATION

1. Please read this instruction for use carefully before using the device for the first time.
2. Do not use the device for another purpose than measuring your blood pressure and pulse.
3. Self-monitoring should not be confused with self-diagnosis. Blood pressure measurements should only be interpreted by a healthcare professional who is familiar with your medical history.
4. Contact your doctor if the measurement results regularly indicate abnormalities indication and keep him/her informed of any unusual or worrying symptoms.
5. In the case of too frequent measurements, blood may accumulate in the artery arm, that may lead to incorrect results. So each subsequent blood pressure measurement has to be carried out after a 5-minute break.
6. If you are taking medications, consult your doctor to determine the most suitable time for blood pressure measurement. NEVER change the prescribed medicine without prior consultation with a doctor.
7. Before using the device, people with serious circulatory problems, should consult a doctor because they may feel discomfort during the measurement.
8. For people with irregular or unstable circulation arising from the diabetes, liver diseases, atherosclerosis and others, may occur different blood pressure values on the wrist or arm. Nevertheless, monitoring of the blood pressure by measuring on the arm or wrist is important and useful.
9. People suffering from vasodilation, liver disorder or diabetes, people with pacemaker or weak pulse, before using the device should consult a doctor.
10. Do not use in infants and pregnant women.
11. People suffering from arrhythmia, such as premature atrial rhythms, or ventricular and atrial fibrillation may use the device only after consultation with their doctor. In some cases, the oscillometric measurement method can cause incorrect readings.
12. Too frequent measurements can cause injury to the patient due to blood flow interference.
13. The cuff should not be applied over a wound as this can cause further injury.
14. DO NOT wrap the cuff to an arm, used for infusions or any other intravascular access, therapy or an arterio-venous (A-V) shunt. The cuff inflation can temporarily block blood flow, potentially causing harm to the patient.
15. The cuff should not be placed on the arm on the side of a mastectomy. In the case of a double mastectomy use the side of the least dominant arm.
16. Pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring equipment on the same limb.
17. A compressed or kinked connection hose may cause continuous cuff pressure resulting in blood flow interference and potentially harmful injury to the patient. Make sure that the air tube is not wrapped around other parts of the body. It may cause an injury.
18. Check if the operation of the unit does not result in prolonged impairment of the circulation of the patient.

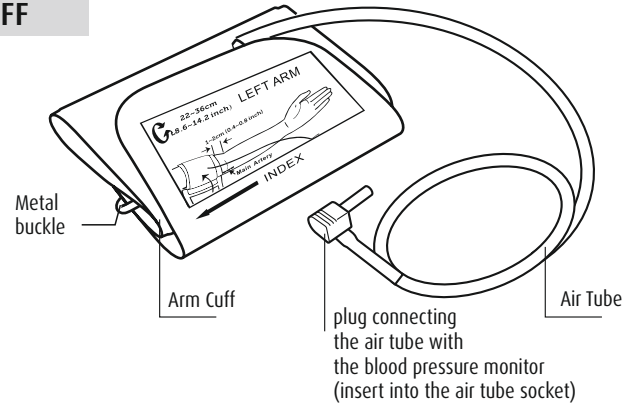
19. The device is not intended to measure the pressure in infants and non-disabled people. Do not leave the device in a place available for small children. The device contains small elements that can be swallowed. The air duct and cable of the power adapter pose a risk of suffocation.
20. Prolonged inflation of the cuff may cause ecchymoma of your arm.
21. Do not disassemble or attempt to repair the device or cuff yourself.
22. Use only the approved arm cuff for this unit. The use of other arm cuffs may result in incorrect measurement results.
23. The device may have incorrect readings if it is stored or used outside the manufacturer's specified temperature and humidity ranges.
24. Do not use the device near strong electrical or electromagnetic fields generated by mobile phones or other devices. It may cause incorrect reading. Do not use the device during patient transportation. It also may cause problems during the measuring.
25. Do not mix new and old batteries simultaneously.
26. Replace batteries when Low Battery Indicator ⌧ appears on the screen. Replace both batteries at the same time.
27. Do not mix battery types. Long-life alkaline batteries are recommended.
28. Remove the batteries when the device won't be used for more than 3 months.
29. Do not insert the batteries with incorrect polarities.
30. Dispose batteries properly; observe local laws and regulations.
31. Use only a recommended by the manufacturer adaptor of double-insulated complying with EN 60601-1 and EN 60601-1-2. The use of unauthorized adapter may cause fire and electric shock.

3. PRODUCT DESIGN

BLOOD PRESSURE MONITOR



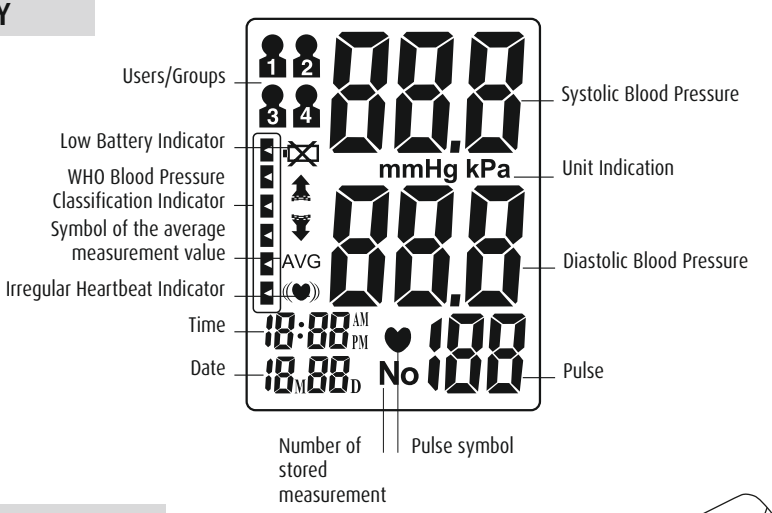
ARM CUFF



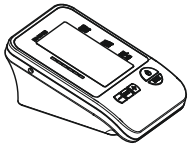
⚠ CAUTION

- If the cuff is broken or does not work, please install a new cuff.
- If it is necessary to use a new cuff, use the connecting air plug of the tube with the blood pressure monitor from the old cuff.

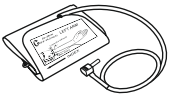
DISPLAY



CONTENTS



automatic blood pressure monitor



arm cuff 22-36 cm (M)

4x battery type AA (1,5V)

carrying case

Instuction for use

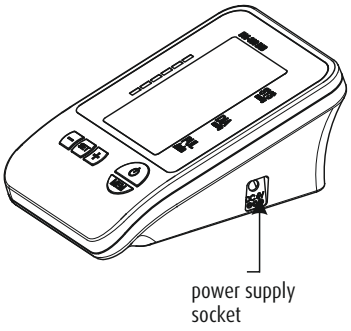
The device can cooperate with the power adapter (added optional and charged additionally). Use only the recommended power supply by the manufacturer.

4. IMPORTANT INFORMATION CONCERNING TAKING MEASUREMENT

1. Avoid eating, exercising, and bathing for 30 minutes before taking measurement.
2. Sit in a calm environment for at least 5-10 minutes before taking measurement.
3. Do not stand while measuring. Sit in a relaxed position while keeping your arm at the same level with your heart.
4. Avoid speaking or moving while taking measurement.
5. While taking measurement, avoid strong electromagnetic interference such as microwave ovens and cell phones.
6. Wait 5 minutes or longer before the next measurement.
7. Try to measure your blood pressure at the same time each day for consistency.
8. A comparison of measurements is possible only if measurements were taken on the same arm, at the same position and at the same part of a day.
9. This blood pressure monitor is not recommended for people with severe arrhythmia.
10. Do not use this blood pressure monitor if the device is damaged.

POWER ADAPTER (OPTIONAL)

1. Connect the power plug to the power supply socket.
2. Insert the power adapter into outlet.
   - Use a power adapter suitable for local power supply.
   - Power adapter specification: 100–240 V, 50 / 60Hz; output: 6V, min. 600mA ⊖-●-⊕
   - We recommend using only the adapter of the model Diagnostic ZID 6–1 (100–240 V, 50 / 60Hz, 6V, 1000 mA (1A)) supplied by the manufacturer.
   - If the device is damaged, the adapter or cable should be disconnected.



5. QUICK INSTRUCTION FOR USE

1. Install the batteries. (See Figure A)
2. Insert cuff air plug on the left side of monitor unit. (See Figure B).

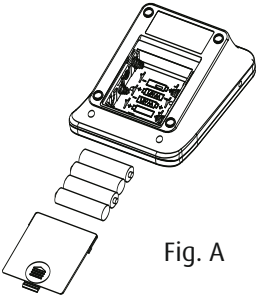


Fig. A

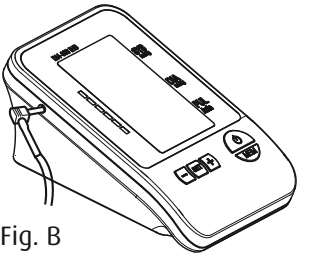
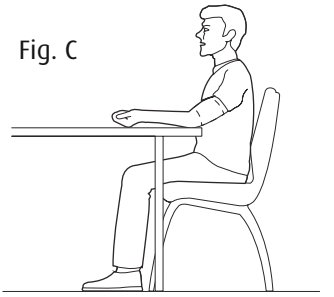


Fig. B

3. Remove the clothing from the arm on which you are taking the measurement.
4. Before taking the measurement, rest for a few minutes. Sit down in a quiet place, preferably at a desk or table, with your arm resting on a firm surface and your feet flat on the floor.
5. Put on the cuff about 1-2 cm above the elbow joint. For better results, put the cuff on the naked shoulder, on the heart level.
6. Press the buttom ⏻ to start the measurement.

Fig. C



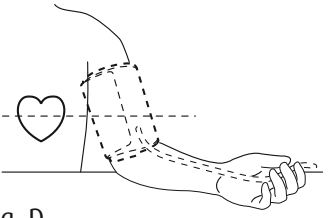


Fig. D

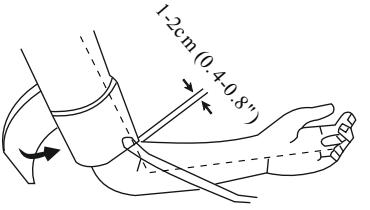
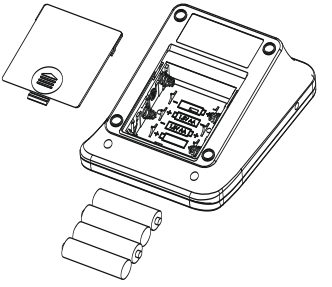


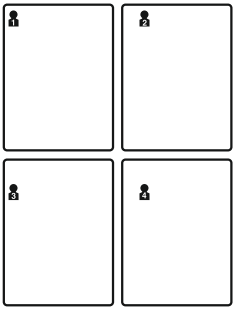
Fig. E

6. INSTALLATION AND REPLACEMENT OF THE BATTERIES.

1. Remove the battery cover from the battery compartment (as it is shown on the cover).
2. Insert new 4 AA batteries and check if all batteries are correctly installed according to their polarity.
3. Replace the battery cover. The cover will be closed when you hear a click.



7. SYSTEM SETTINGS

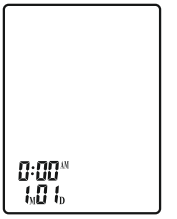


SELECT THE USER/GROUP

With power off, press "SET" button to activate the system settings. The memory group icon will flash.

1.Select the Memory Group

While in the system setting mode, you may accumulate test results into 4 different groups. This allows multiple users to save individual test results (up up to 30 memories per group.) Press " + " or " - " button to choose a setting group. Measurement results will automatically store in each selected group.



2. Time /Date Setting

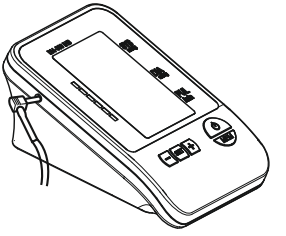
Press "SET" button again to set the Time/Date mode. Set the month first by adjusting the " + " or " - " button. Press "SET " button again to confirm current month. Continue setting the day, hour and minute in the same way. Every time when the " SET " button is pressed, it will lock in your selection and continue in succession (month, day, hour, minute.)

3. Saved Settings

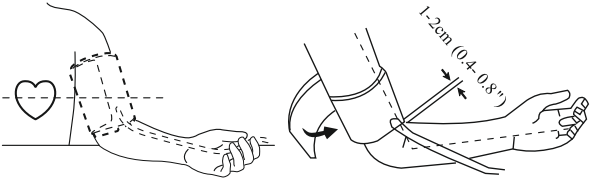
To turn off the mode, press ⏻ button.

NOTE: If unit is left for 3 minutes and isn't used, it will automatically save all information and turn off.

WRAPPING THE CUFF



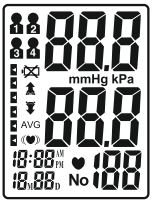
1. Firmly insert air plug into a hole on the left side of the device.
2. Insert the end of the cuff under the metal buckle of the cuff, with velcro pointed outside.
3. Wrap the cuff about 1-2 cm above the elbow joint. For better results, put the cuff on the naked shoulder, on heart level.
4. The compression of the arm caused by the folding of the sleeve clothes can prevent accurate reading.



NOTE: Do not insert the air plug into a hole on the right side of monitor unit. This hole is designed only for an optional power adapter.

8. TAKING MEASUREMENT

TURN ON THE DEVICE



Press and hold ⏻ button until a beep sound. All symbols will appear on the screen for a second and the device will test the screen. Sound tone indicates that the device is ready for measuring.

NOTE: The device won't function if the residual air from previous measurement is in the cuff. If the air from the previous measurement is in the cuff, the will flash on the LCD.

INFLATION OF THE CUFF

First it pumps to the initial pressure. If the systolic pressure of the current user is higher than 190 mmHg, the device will automatically change the stuffing to the appropriate level.

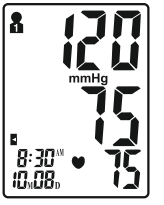
NOTE: The inflation speed will gradually slow down and stop when the cuff is not properly placed on the arm. In this case, put on the cuff correctly and continue measurement by pressing the button ⏻.

TAKING MEASUREMENT

After inflation of the cuff, the air will be deflated slowly, as it is indicated by the corresponding cuff pressure value. A flashing ♥ will appear simultaneously on the screen, signaling the heartbeat.

NOTE: Keep yourself relaxed during the measurement. Do not speak or move.

DISPLAYING THE RESULTS



Three short beep sounds will appear after the measurement is completed. The screen will display measurements for systolic and diastolic blood pressure. The blood pressure indicator appears on the left side of the screen, according to the WHO classification.

NOTE: Details on the WHO blood pressure classification can be found on page 14.

IRREGULAR HEARTBEAT INDICATOR

If the monitor detects an irregular heart rhythm two or more times during the measurement, the irregular heartbeat symbol (♥) appears on screen with the measurement results. Irregular heartbeat rhythm is defined as rhythm that is either 25% slower or faster than the average rhythm detected while measuring systolic or diastolic blood pressure. Consult your physician if the irregular heartbeat symbol (♥) appears frequently with your measuring results.

REMOVAL AND SAVING OF MEASUREMENT RESULTS

User may delete their current measuring results, due to unfavorable measuring conditions or for any other reason. To delete the last measurement result, press the SET button, after result is displayed. If the result is not deleted, it will be automatically stored by date within the previously configured memory group.

NOTE: Before measurement, be sure that the appropriate memory group is selected.

If the number of measurements exceed the allowed 30 memories per group, the most recent results will appear first and the oldest will be deleted.

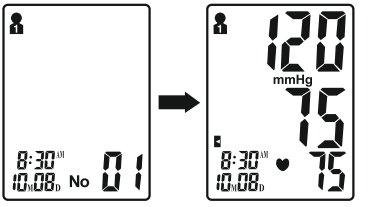
TURN OFF

The button ⏻ is used to turn the device off in any mode. The device will turn off automatically after about 3 minutes of inactivity.

SAFETY PRECAUTION: If pressure in the arm cuff becomes too extreme while measuring, press the ⏻ button to turn off the device. When the unit will be turned off, the cuff pressure will be rapidly pushed up.

MEMORY CHECK

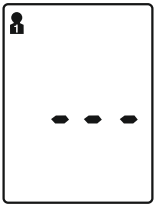
With power off, you may check the previous measuring results by pressing the button MEM, than use the " + " or " - " buttons.
The most recent measuring result can be viewed by pressing " + " button. The oldest measuring result can be viewed by pressing and holding the " - " button. Upon activation of measuring results, you may press " + " or " - " buttons to wind all measuring results stored in the memory.



NOTE: Previous measuring results will be displayed only from the recently used memory group. To check the previous measuring results in other memory groups, first select the desired group and then turn off the device. (See "Selecting a Group/User" on page 10).

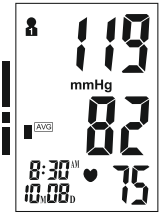
MEMORY VALUES DELETION

The memory for a selected group can be deleted in the memory check mode. Enter the last measurement results, when the results flash, press and hold the SET button for about 3 seconds in order to delete all memory records from the selected group. The device will beep indicating the successful deletion and then go on to the next measuring mode. Press ⏻ button to turn the device off.



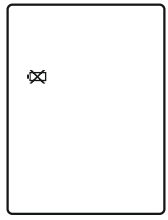
NOTE: Memory cannot be recovered once it has been deleted.

THE AVERAGE OF THE LAST 3 MEASUREMENTS



With the powered off device, press and hold the MEM button to activate the screen. After the device performs an internal checking, the screen will display 3 last average results of the last group that was used. The AVG symbol will appear along with the corresponding WHO Blood Pressure indicator. The memory check mode can be accessed by pressing " + " or " - " buttons. To check the average results from the other groups, select the desired group first, before pressing the MEM button. The device is to be turned off. (See "Selecting a Group/User" on page 10)

LOW BATTERY SYMBOL



4 short warning beep sounds appear, when the battery life is depleting and it is impossible to inflate cuff for taking measuremets. The symbol appears simultaneously for approximately 5 seconds before the device turns off. Replace the batteries. Throughout this process, memory won't be lost.

9. TROUBLESHOOTING

Problem	Possible cause	Solution
Blood pressure results are not within typical range	Cuff is too tight or not properly positioned on the arm.	Lay the cuff 1-2 cm above the elbow (see page 10). Pay attention to the size of the cuff.
	Inaccurate measuring results due to the body or device movement.	Sit in a relaxed position with arm placed near the heart. Do not speak or move while taking measurement. Make sure the monitor unit is placed in a stationary position throughout the measuring period. (see page 10).
Err	The cuff did not inflate correctly.	Make sure the plug connecting the air tube with the blood pressure monitor is inserted properly to the cuff and monitor unit.
	Incorrect service.	Read user manual carefully and remeasure properly.
	Pressure during inflating exceeded 300mmHg.	Read user manual carefully and repeat measurement correctly.
	Low battery symbol.	Change all the batteries. Do not use accumulators (rechargeable batteries)

10. BLOOD PRESSURE INFORMATION

BLOOD PRESSURE

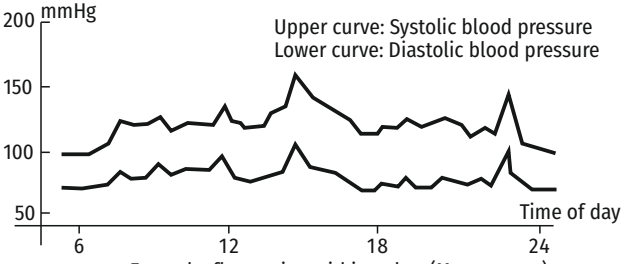
Blood pressure is the force of blood pushing against the walls of arteries. It is typically measured in millimeters of mercury (mmHg.) Systolic blood pressure is the maximum force exerted against blood vessel walls each time the heart beats. Diastolic blood pressure is the force exerted on blood vessels when the heart is resting between beats.

People's blood pressure frequently changes throughout the day. Excitement and tension can cause blood pressure to rise, while drinking alcohol and bathing can lower blood pressure. Certain hormones like adrenaline (which your body releases under stress) can cause blood vessels to constrict, which leads to increase pressure.

BLOOD PRESSURE HAZARDS

The blood pressure may vary even about 30-50mmHg a day. Fluctuations among people with hypertension can be even greater. Blood pressure increases during physical or mental exercises, while achieves its lowest value during sleep.

It's better to take measurements at the same time every day. Multiple measurements will give a real picture of pressure. When saving the measurement result, make sure that you have saved the exact date and the time of measurement.

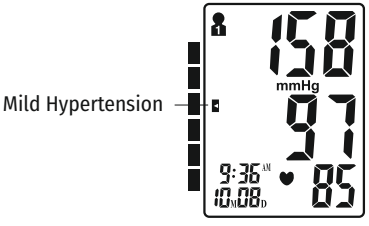


Example: fluctuation within a day (Male 35 years)

WHO BLOOD PRESSURE CLASSIFICATION INDICATOR

Blood Pressure Diagnostic DM-300 IHB is equipped with a classification indicator based on established guidelines from the World Health Organization. The instruction below (color coded on monitor unit) indicates measurement results.

- SEVERE HYPERTENSION
- MODERATE HYPERTENSION
- MILD HYPERTENSION
- HIGH-NORMAL
- NORMAL
- OPTIMAL

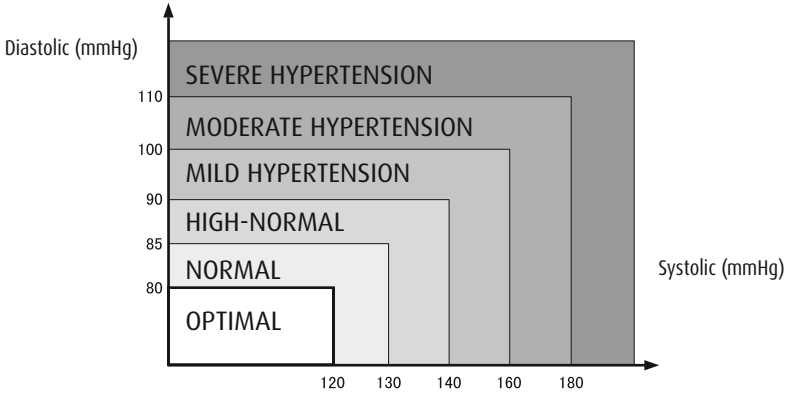


Blood Pressure Classification Indicator

WHAT IS HYPERTENSION AND HOW TO CONTROL IT?

Hypertension is an unnaturally high blood pressure. It should be checked regularly to detect hypertension as soon as possible, as it may cause of such serious diseases as a heart attack or stroke.

To prevent hypertension, possibly reduce it: do not smoke, reduce the intake of salt and fats, avoid stress, maintain proper weight, exercise regularly.



NOTE: Do not be too worried about the result of one measurement. For better indication measure blood pressure two or three times at the same time of a day, for a long time, that allows you to get to know your normal blood pressure. If the results are outside the norm, consult your doctor.

QUESTIONS AND ANSWERS ON MEASURING BLOOD PRESSURE

What is the difference between measuring blood pressure at home and in the doctor's office?

Blood pressure measurement at home are now considered to be more accurate because it reflects your everyday life better. The results obtained in the doctor's office can be elevated. This is the so-called "white coat effect". For most patients, the fact of measurement pressure in the doctor's office is associated with a stress reaction. Its intensity can be different, sometimes it is completely unconscious but it always results in some increase in blood pressure.

Note: Incorrect Measurement results may be caused by:

1. Improper cuff placement
   - Make sure the cuff is wrapped properly – it isn't too tight or too loose.
   - Make sure that the bottom of the cuff is approximately 1-2cm (1/2'') above the elbow joint.
2. Improper body position
   - Make sure to keep your body in an upright position.
3. Feeling anxious or nervous.
   - Take 2-3 deep breaths, wait a few minutes and remeasure the blood pressure.

What causes different readings?

Blood pressure varies throughout the day. Many factors including diet, stress, incorrect cuff placement etc. may affect an individual's blood pressure.

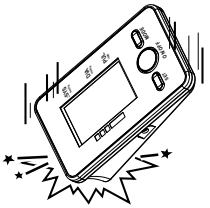
Should one apply the cuff to the left or right arm? What is the difference?

Each arm can be used when measuring, however, when comparing results, the same arm should be taken into consideration. Measuring on the left arm may provide more accurate results as it is located closer to the heart.

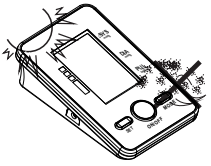
What is the best time of a day for measuring?

In the morning after one wakes up, when one feel relaxed and stress free.

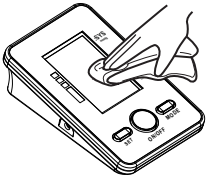
11. MAINTENANCE



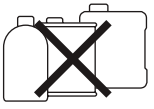
Avoid dropping, slamming, or throwing the unit. Avoid extreme temperatures. Do not expose unit directly to the sunshine.



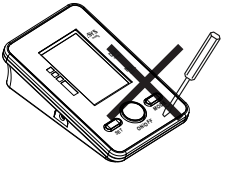
When cleaning the unit, use a soft fabric and lightly wipe with mild detergent. Use a damp cloth to remove dirt and excess detergent.



Cuff cleaning: Do not soak the cuff in water! Use a soft cloth soaked in a small amount of spirit for disinfection. Use a damp cloth to wipe (moistened in water). Dry the cuff in air at room temperature.

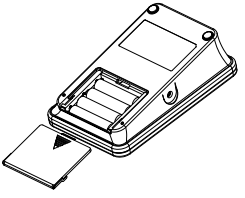


Do not use petrol, thinners or similar solvents.



Do not disassemble the unit.

If the device will not be used for a long time - remove the batteries.



It is recommended to check the correct operation of the device every 2 years. Maintenance can only be carried out by an authorized staff.

12. TECHNICAL DATA

Product description	Automatic Arm-type Blood Pressure and Pulse Monitor	
Model	Diagnostic DM-300 IHB	
Measurement Method	Oscillometric Method	
Display	LCD Digital Display (62.7mm×46.4mm)	
Measurement Range	Pressure	0–300 mmHg
	Systolic Pressure	60–280 mmHg
	Diastolic Pressure	30–200 mmHg
	Accuracy of pressure measurement	±3 mmHg
	Pulse	30–180 beats / minute
	Accuracy of pulse measurement	±5%
Air pumping	Automatic pumping device	
Memory	120 measurements in 4 groups (4x30) with the date and time	
Functions	Detection of irregular heartbeat WHO classification indicator Average of the last 3 results Low battery alarm Automatic power off	
Power source	4 AA alkaline batteries power, or power adapter DC 6.0V 600 mA (optionally)	
Battery life	Approximately 2 months at 3 tests per day	
Weight	approx. 395g without baterries	
Dimentions	162 x 110 x 62.9mm (L x W x H)	
Cuff circumference	22–36 cm	
Operating Conditions	Temperature: 10–40°C Humidity: 15–93% R.H. (Non-condensing) Atmospheric Pressure: 860–1060 hPa	
Storage and transportation Conditions	Temperature: -25–70°C Humidity: ≤93% R.H. (Non-condensing) Atmospheric Pressure: 860–1060 hPa	
Protection against electric shock	The device is powered internally	
Safety classification	Type BF	
Protection against water penetration	IP 20	
Content	Blood pressure monitor Diagnostic DM-300 IHB, Cuff (22-36 cm), 4 x AA alkaline batteries, instruction for use, carrying case, power adapter (optional)	

This unit is intended for home use and the specification may be changed without prior notice.

Guidelines and manufacturer's declaration - electromagnetic emissions

The devices are intended for use in the electromagnetic environment as described below.
The customer or the user of the device should assure that the device is used in such an environment.

Emission test	Fulfillment of requirement	Guidelines regarding electromagnetic environment
The emission of radio frequency waves; standard CISPR 11	Group 1 Class B	The device uses radio-frequency energy only for its internal functions.Therefore, these emissions are very low and should not cause interference in nearby electronic equipment.
The emission of radio frequency waves; standard CISPR 11	Group 1 Class B	The device can be used in all buildings, including residential buildings, and those that are directly connected to the public low-voltage network, supplying power to buildings intended for residential purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Comply	

RF - frequency from the electromagnetic spectrum segment, that is between the lower range of radio frequencies of long waves and the infrared range; frequency useful for radio transmission. 9kHz and 3000 GHz are generally accepted as the limits

Guidance and declaration of manufacturer electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below.
The customer or the user of the device should assure that it is used in such an environment.

Immunity test	Test level, IEC 60601 standard	Compatibility level	Electromagnetic environment - guidelines
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ±2 kV,±4 kV, ±8 kV, ±15 kV air	± 8 kV contact ±2 kV,±4 kV, ±8 kV, ±15 kV air	Floors should be wooden, concrete or made of ceramic tiles. If floors are covered with synthetic materials, the relative humidity should be at least 30%.
Fast transient/burst IEC 61000-4-4	± 2 kV , 100kHz, for alternating current power supply	± 2 kV , 100kHz, for alternating current power supply	The quality of power supply should be adequate for typical commercial installation or hospital environment.
Surges IEC 61000-4-5	±0.5kV, ±1kV (differential mode)	±0.5kV, ±1kV (differential mode)	The quality of power supply should be adequate for typical commercial installation or hospital environment.
Voltage dips, short interruptions and voltage changes on power supply inlets IEC 61000-4-11	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225° , 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle	The quality of power supply should be adequate for typical commercial installation or hospital environment.
Magnetic field of the power supply frequency (50/60 Hz) IEC 61000-4-8	30 A/m; 50Hz or 60Hz	30 A/m; 50Hz or 60Hz	The level of magnetic fields of power sources should be within the limits applicable for typical commercial installations or hospital environment.

UT note is the variable voltage (AC) of the power network before applying the test level.
RF - frequency from the electromagnetic spectrum segment, that is between the lower range of radio frequencies of long waves and the infrared range; frequency useful for radio transmission. 9kHz and 3000 GHz are generally accepted as the limits.

GUIDELINES AND MANUFACTURER'S DECLARATION REGARDING ELECTROMAGNETIC IMMUNITY

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the DEVICE should assure that it is used in such an environment.

Immunity test	Test level, IEC 60601 standard	Compatibility level	Electromagnetic environment - guidelines
Conducted radio-frequency signal IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3V	Portable and mobile radio communication measures should be used at a distance from any of the elements [of the DEVICE or SYSTEM], including cables, which is not lower than the recommended distance calculated from the transmitter frequency equation. Recommended distance $d = 1.2 \sqrt{p}$ $d = 1.2 \sqrt{p}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{p}$ 800 MHz to 2.5 GHz where P is the maximum power rating of the transmitter in watts (W) as specified by the manufacturer, and (d) is the recommended distance in meters (m). Field strengths from fixed RF transmitters, as determined in field measurements of electromagnetic fields, should be lower than the compatibility level for each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: Recommended distance d = 1.2 
Emitted radio-frequency signal IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3V/m	

NOTE 1 at 80 MHz and 800 MHz, the distance for the higher frequency range applies.

NOTE 2: these guidelines do not apply in all situations. The propagation of electromagnetic waves is affected by the absorption and reflection from the buildings, objects and people.

(a) The field strengths from the specific transmitters such as a cellular base stations, radio relays, amateur radio, AM and FM radio broadcast and TV broadcast are not theoretically possible to predict with accuracy. To assess the electromagnetic environment, consideration of conditions should be considered locals. If the measured field strength in the place where the DEVICE is operating exceeds the appropriate level compliance, it should check whether the DEVICE is working normally. If you observe improper work, it may be necessary to take appropriate preventive measures, such as conversion or relocation of the DEVICE.

(b) For frequencies outside the range of 150 kHz to 80 MHz, the field strength should not be greater than 3 V / m.

RF - frequency from the electromagnetic spectrum segment, that is between the lower range of radio frequencies of long waves and the infrared range; frequency useful for radio transmission. 9kHz and 3000 GHz are generally accepted as the limits.

Recommended spacing between portable and mobile radio communication equipment and the DEVICE

The [DEVICE or SYSTEM] is intended for use in the electromagnetic environment in which the interference caused by the emission of radio waves is controlled. The buyer or the user of the [DEVICE or SYSTEM] can help prevent electromagnetic interference by keeping a minimum distance between portable and mobile radio communication equipment (transmitters) and the [DEVICE or SYSTEM], as recommended below, according to the maximum output power of the communication equipment

Maximum rated power of the transmitter W	Distance according to frequency of the transmitter m		
	150 kHz till 80 MHz d = 1,16	80 MHz till 800 MHz d = 1,16	800 MHz till 2.5 GHz d = 2,33
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters assessed at the maximum output power not listed below, the recommended distance <d> in meters (m) can be estimated using the equation corresponding to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts according to the transmitter manufacturer.

NOTE 1 at 80 MHz and 800 MHz, the distance for the higher frequency range applies.

NOTE 2: these guidelines do not apply in all situations. The propagation of electromagnetic waves is affected by the absorption and reflection from the buildings, objects and people.

CORRECT RECOVERY OF THIS PRODUCT
This indication is placed on the product or in its related materials and indicates that it should not be disposed of with other household waste after use.
The worn out product should be taken to a waste collection facility. Contains components that are dangerous for the environment. The correct disposal of the device allows to preserve valuable resources and avoid negative effects on health and the environment, which may be threatened by inappropriate handling of waste. If you are in doubt about where to return your used product, contact Diagnosis or your local distributor.

WARRANTY

The Diagnostic DM-300 IHB blood pressure monitor comes with a 5-year warranty from the date of purchase. If the blood pressure monitor does not work properly, due to defective components or faulty workmanship, we will repair or replace it free of charge. The warranty does not covers damage to the blood pressure monitor resulting from improper operation. For more information, please contact Diagnosis.

Diagnosis S.A.
ul. Gen. W. Andersa 38A
15-113 Białystok, Poland
www.diagnosis.pl

Helpdesk: +48 800 70 30 11
tel./fax 85 732 46 22, 732 40 99
(Polish language only. Charges according to the operatir's tariff)

store stamp and signature of salesperson

WARRANTY CARD

DEVICE NAME: Blood pressure monitor. . . . . MODEL: Diagnostic DM-300 IHB

SERIAL NUMBER . . . . . .

DATE OF SALE . . . . . .

WARRANTY TERMS

1. Diagnosis S.A. grants a warranty:
   - 24 months for DIAGNOSTIC DM-300 IHB blood pressure monitor and cuffs (excluding pump assembly)
   - 12 months for pressure monitor accessories

Hardware defects revealed during the warranty period will be rectified free of charge within 21 days. The term runs from the date of delivery of the equipment to the service center.

2. The purchaser shall be entitled to replace the equipment for a new one, free of defects, when
   - the repair has not been made within the time limit set in item 1
   - an authorized service center found an irreparable manufacturing defect
   - during the warranty period, 4 repairs were effected, and the equipment still shows defects that prevent its use in accordance with its intended purpose

The concept of repair shall not include operations related to equipment check and cleaning.

3. The warranty shall not cover: batteries, products with illegible or damaged serial number, damage due to the operation and storage inconsistent with the user manual, ingress of liquids or foreign bodies, overvoltage of mains, repairs by unauthorized persons and random events.
4. Faulty equipment should be delivered by the buyer to the address of the main service center.
5. The warranty for the sold consumer goods shall not exclude, restrict, or suspend the powers of the buyer resulting from non-conformity of the goods with the contract.
6. The only basis for the warranty rights shall be the warranty card with the date of sale, stamp and signature of the salesperson. If the card is not completed, filled in wrongly, with traces of corrections and entries made by unauthorized persons, illegible as a result of damage - it shall be invalid.

DIAGNOSIS S.A.
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