

Unit and LCD-display



Explanation of symbols



IMPORTANT Non-observance of these instructions can result in serious injury or damage to the device.



WARNING These warning notes must be observed to prevent any injury to the user.



CAUTION These notes must be observed to prevent any damage to the device.



NOTE These notes give you useful additional information on the installation or operation.



Device classification: type BF applied part

IP21 Ingress protection rating

RoHS RoHS mark

LOT LOT number SN Serial number

Manufacturer Date of manufacture

Device information: Internally powered equipment, Not suitable for use in presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide, Continuous operation with short-time loading

Intended use

This fully automatic over-the-counter electronic blood pressure monitor is intended for measuring human's systolic and diastolic blood pressure and heart rate by using an oscillometric technique by means of a cuff, which needs to be fitted on the upper arm...

The device is able to detect irregular heartbeat and indicate this with a symbol.

Contraindication: The device is not suitable for use on pregnant women and patients with implanted, electronic devices (e.g. pacemaker or defibrillator).

GB Safety instructions



Read the instruction manual carefully before using this device, especially the safety instructions, and keep the instruction manual for future use. Should you give this device to another person, it is vital that you also pass on these instructions for use.



- The unit is intended only for use in the home. Consult your doctor prior to using the blood pressure monitor if you are concerned about health matters. Only use the unit for its intended purpose in accordance with the instructions for use. Warranty claims become void if the unit is misused. Please consult your doctor prior to using the unit if you suffer from illnesses such as arterial occlusive disease. The unit may not be used to check the heart rate of a pacemaker. Pregnant women should take the necessary precautions and pay attention to their individual circumstances. Please consult your doctor if necessary.

BATTERY SAFETY INFORMATION

- Do not disassemble batteries! Replace all batteries if the unit display shows the low battery symbol. Never leave any low battery in the battery compartment since it may leak and cause damage to the unit. Increased risk of leakage! Avoid contact with skin, eyes and mucous membranes! If battery acid comes in contact with any of these parts, rinse the affected area with copious amounts of fresh water and seek medical attention immediately! If a battery has been swallowed, seek medical attention immediately!

Unit and LCD-Display

- 1 Cuff, 2 Air Hose, 3 Battery Compartment, 4 Connector for the hose, 5 ON / OFF Button, 6 SET Button, 7 Memory Button, 8 USB Type-C Power Input, 9 Date and Time, 10 User Icon, 11 Inflation Icon, 12 Deflation Icon, 13 Memory Icon, 14 Cuff Fitness Detection, 15 Memory Number, 16 Movement Detection, 17 Heartbeat Symbol, 18 Average Value Icon, 19 Irregular Heartbeat Icon, 20 Low Battery Symbol, 21 Pulse Rate, 22 Blood Pressure Classification, 23 Diastolic pressure, 24 Systolic pressure

Scope of supply

- Please check first of all that the device is complete and is not damaged in any way. In case of doubt, do not use it and contact your dealer or your service centre. The following parts are included: 1 medisana blood pressure monitor BU 315, 1 cuff with air tube, 4 batteries (type AAA), 1 Type-C charging cable, 1 instruction manual

WARNING - Please ensure that the polythene packing is kept away from the reach of children! Risk of suffocation!

How is blood pressure measured?

The medisana BU 315 is a blood pressure unit which is used to measure blood pressure at the upper arm. The measurement is carried out by a microprocessor, which, via a pressure sensor, measures the vibrations resulting from the inflation and deflation of the cuff over the artery.

Blood pressure classification

Table with 4 columns: systolic mmHg, diastolic mmHg, Classification, Blood pressure indicator. Rows show stages of hypertension (emergency, mild) and normal/abnormal readings.

WARNING - Blood pressure that is too low represents just as great a health risk as blood pressure that is too high! Fits of dizziness may lead to dangerous situations arising (e.g. on stairs or in traffic)!

Influencing and evaluating readings

- Measure your blood pressure several times, then record and compare the results. Do not draw any conclusions from a single reading. Your blood pressure readings should always be evaluated by a doctor who is also familiar with your personal medical history. When using the unit regularly and recording the values for your doctor, you should visit the doctor from time to time to keep him updated. When taking readings, remember that the daily values are influenced by several factors. Smoking, consumption of alcohol, drugs and physical exertion influence the measured values in various ways.

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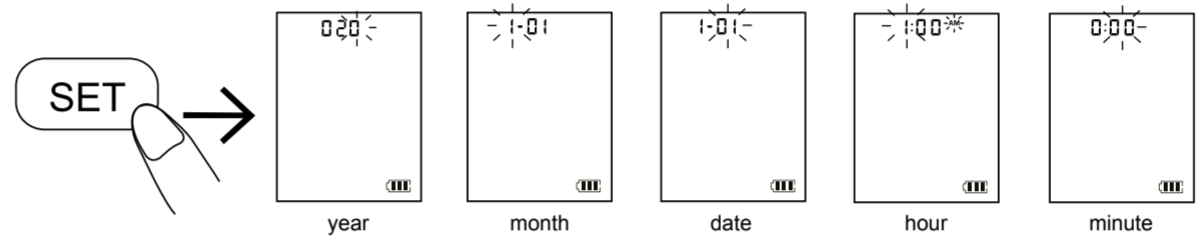
Getting started - insert/ replace batteries

You must insert the batteries provided before you can use your unit. The lid of the battery compartment is located on the underside of the unit. Open it by slightly pushing it and moving it upwards. Remove it and insert the 4 AAA batteries supplied. Ensure correct polarity when inserting the batteries (as marked inside the battery compartment). Close the battery compartment. Replace the batteries if the low battery symbol appears on the display or if nothing appears on the display after the unit has been switched on.

Type-C connection for Power Supply In addition to the batteries, the power can also be supplied by plugging into D.C. 5V external power supply through a Type-C port. (The Type-C charging cable is included in the packing)

Settings - date and time

In the power-off mode, press the SET button for about 3 seconds to enter the date setting interface, and the "year" will flash. Press the Memory button to adjust the year, and press the SET button to confirm the selection. When the year is set, it will automatically enter the month setting. Press the Memory button to adjust the month, and press the SET button to confirm the selection. Follow the same steps to adjust the date/hour/minute.



Fitting the cuff

- 1. Connect the air hose to the connector on the left side of the device. Slide the open end of the cuff through the metal bracket so that the Velcro fastener is on the outside and it becomes a cylindrical form. Position the air hose in the middle of your arm in line with your middle finger. The lower edge of the cuff should be 2 - 3 cm above the crease of the elbow. Pull the cuff tight and close the Velcro fastener. Tighten the end of the cuff so that it wraps evenly around your arm, leaving room for 2 fingers between the cuff and your arm. Measure the blood pressure on your bare arm. Only position the cuff on the right arm if it cannot be used on the left arm. Always carry out measurements on the same arm. Correct measuring position for sitting. Make sure that the cuff does not slip during measurement and that the printed arrow points to the crook of the arm.

User memory setting

The medisana blood pressure monitor features 2 separate memories, each with a capacity of 99 memory slots. In the power-off mode, press the SET button to enter the user selection interface. Then press the SET button to select user memory 1 or 2 (display: 1 or 2).

Taking a blood pressure measurement

- 1. Press the ON / OFF button to switch on the unit. The device then automatically inflates the cuff slowly in order to measure your blood pressure. The rising pressure in the cuff is shown on the display. The cuff fitness detection icon is always displayed on the screen when the cuff is worn correctly. When the cuff is worn too loosely, the icon will flash to remind you. The movement detection flashes when body movement is detected. It may cause inaccurate measurement results. Please restart the measurement. The unit inflates the cuff until sufficient pressure has built up for a measurement. Then the unit slowly releases air from the cuff and carries out the measurement. When the device detects the heartbeat signal, the heartbeat symbol on the display starts to flash. When the measurement is finished, the systolic and diastolic blood pressure and the pulse value appears on the display. The blood pressure indicator is display next to the relevant colored bar depending on the blood pressure classification. If the unit has detected an irregular heartbeat, the irregular heartbeat icon also appears.

Displaying stored results

This unit features 2 separate memories, each with a capacity of 99 memory slots. Results are automatically stored in the memory selected by the user. Press the Memory button when power off, to call up the average measured values of the last 3 measurements.

Press the Memory button again to call up the last measurement value. Repeatedly pressing the Memory button displays the respective values measured previously. If you have reached the final entry and do not press a button, the unit automatically switches itself off after approximately 1 minute in memory recall mode. Memory recall mode can be exited at any time by pressing the ON / OFF button, which will also switch the unit off. Once the memory log is full, old values will be refreshed with new ones.

Deleting stored values

If you are sure that you want to permanently remove all stored memories, press the SET button in power-off mode to select the user group whose measured values need to be deleted. Press the ON / OFF button to power off and Memory button to activate the screen, then press and hold the Memory button for about 3 seconds to delete the memories of the selected user and the icon "n0" will be shown on the display.

Abnormal phenomena and handling troubleshooting

Table with 3 columns: Abnormal displays, Cause, Solution. Rows include errors Er U, Er H, Er 1, Er 2, Er 3, Er 23, Er 24, Er 25, and Er 26.

Abnormal phenomena and handling

Table with 3 columns: Abnormal displays, Cause, Solution. Rows include Failure to power on, No inflation, Unable to measure due to the display error, and Air leakage of the cuff.

WARNING - If the blood pressure still cannot be measured after trying the above-stated solutions, please contact the dealer. Do NOT attempt to disassemble the device by yourself.

Cleaning and maintenance

Remove the batteries before cleaning the unit. Clean the unit using a soft cloth lightly moistened with a mild soapy solution. Never use abrasive cleaning agents, alcohol, naptha, thinner or gasoline etc. Never immerse the unit or any component in water. Be cautious not to get any moisture in the main unit. Do not wet the cuff or attempt to clean the cuff with water. Using a dry cloth, gently wipe away any excess moisture that may remain on the cuff. Lay the cuff flat in an unrolled position and allow the cuff to air dry. Do not expose the unit to direct sunlight; protect it against dirt and moisture. Do not expose the unit to extreme hot or cold temperatures. Keep the device in the storage case when not in use. Store the unit in a clean and dry location.

Disinfection

- 1. If used by yourself in a home environment, wipe the cuff once a month with a commercially available cotton cloth with 75% alcohol for more than 30 seconds at a time for disinfection in addition to the normal cleaning routine. 2. If used for more than one person (home use), wipe the cuff once a week with a commercially available cotton cloth with 75% alcohol for more than 30 seconds at a time for disinfection in addition to the normal cleaning routine. 3. After cleaning/disinfection and before use, make sure that there are no blood stains or dirt on the display, the device or the cuff. If there are blood spots or dirt that cannot be removed, please dispose of the device without reusing it. 4. If used in a complex environment (e.g. in a hospital) or by persons outside your own family, replace the cuff with a new one after use.

Disposal



This product must not be disposed of together with domestic waste. All users are obliged to hand in all electrical or electronic devices, regardless of whether or not they contain toxic substances, at a municipal or commercial collection point so that they can be disposed of in an environmentally acceptable manner. Remove the batteries before disposing of the device/unit. Do not dispose of old batteries with your household waste, but at a battery collection station at a recycling site or in a shop. Consult your local authority or your supplier for information about disposal.

Guidelines / Standards

This blood pressure monitor meets the requirements of the EU standard for noninvasive blood pressure monitors. It is certified in accordance with EC Guidelines and carries the CE symbol (conformity symbol) "CE 0123 The blood pressure monitor corresponds to European standards EN 1060-3, EN 81060-1 and EN 81060-2. The specifications of EU Guideline '93/42/EEC of the Council Directive dated 14 June 1993 concerning medical devices" are met.

Technical specifications

Table of technical specifications: Name and model, Display system / Memory slots, Measuring method, Power supply, Blood pressure measuring range, Pulse measuring range, Maximum error tolerance for static pressure, Maximum error tolerance for pulse rate, Pressure generation, Deflation, Auto power-off, Battery life, Product life span, Operating conditions, Storage / Transportation conditions, Dimensions / Cuff, Weight (main unit), Item number, EAN number.

In accordance with our policy of continual product improvement, we reserve the right to make technical and visual changes without notice.

Warranty and repair terms

Please contact your supplier or the service centre in case of a claim under the warranty. If you have to return the unit, please enclose a copy of your receipt and state what the defect is. The following warranty terms apply: 1. The warranty period for medisana products is 3 years from date of purchase. In case of a warranty claim, the date of purchase has to be proven by means of the sales receipt or invoice. 2. Defects in material or workmanship will be removed free of charge within the warranty period. 3. Repairs under warranty do not extend the warranty period either for the unit or for the replacement parts. 4. The following is excluded under the warranty: a. All damage which has arisen due to improper treatment, e.g. nonobservance of the user instructions. b. All damage which is due to repairs or tampering by the customer or unauthorised third parties. c. Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre. d. Accessories which are subject to normal wear and tear. 5. Liability for direct or indirect consequential losses caused by the unit are excluded even if the damage to the unit is accepted as a warranty claim.

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