

Upper arm blood pressure monitor



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Thank you for choosing the visocor OM60 upper arm blood pressure monitor (also referred to in the following as the unit).

These instructions are intended to help the user to use the unit safely and efficiently, and must be kept with the product and forwarded, if applicable. The unit must be used in accordance with the procedures contained in these instructions for use and must not be used for any other purposes.

It is important that you read all the instructions carefully before using the device. Please pay particular attention to the chapter "Important usage information" on page 10.

The intended purpose of this device is to enable adults to automatically measure their own systolic blood pressure, diastolic blood pressure and pulse at their upper arm. The device can also be used by health care professionals.

This unit uses the oscillometric method for measuring blood pressure and pulse rate.

Warning: Not suitable for use on newborn babies or infants.

Warning: Not suitable for use during pregnancy.

The device is not suitable for use in close proximity to RF electrosurgical instruments or magnetic resonance imaging equipment.

Do not use the unit without first consulting your doctor if you are undergoing dialysis treatment or taking anticoagulants, platelet aggregation inhibitors or steroids. Internal bleeding may be caused under these conditions.

1. Important instructions for patients

- Taking blood pressure measurements on children requires specialist knowledge. Consult your doctor if you want to measure a child's blood pressure. Never use this device on a newborn baby or an infant.
- Do not under any circumstances place the cuff over a critical area, e.g. a wound, aneurysm, etc. or on an arm with an arteriovenous shunt. Risk of injury! Any supply via an intravascular access point (infusion) or other medical monitoring devices could possibly be interrupted.
- The display of the pulse frequency is not suitable for checking the frequency of cardiac pacemakers. Cardiac pacemakers and blood pressure monitors do not influence each other regarding their mode of operation.
- The device is not category AP/APG. It may not be used in the presence of inflammable anaesthetics with air, oxygen or nitro-gene oxide.
- The device contains small parts that could be swallowed by children. The air hose poses a strangulation hazard. Do not leave the device unattended with children.
- Store the device out of the reach of children and pets.
- Make sure the air hose is not kinked. A kinked air hose can prevent the cuff from deflating and thereby interrupt the blood flow in the arm for too long.
- Please wait a few minutes between successive measurements, otherwise the blood flow in the arm is interrupted for too long and injuries could occur.
- If the measurement indicates an irregular pulse (arrhythmia) (see page 15), consult with a doctor before evaluating the results.

- The readings measured using this device do not provide a diagnosis. They are no substitute for visiting a doctor. Do not rely solely on the result obtained; always take the patient's other symptoms into account too. In case of doubt, please call a doctor or paramedics to help.
- Discuss the measured values with your doctor. Do not assess the measurement results yourself. Never change the dose of medicines prescribed by your doctor.
- Before carrying out your self-measurement, please pay attention to the chapter "Important usage information" on page 10.

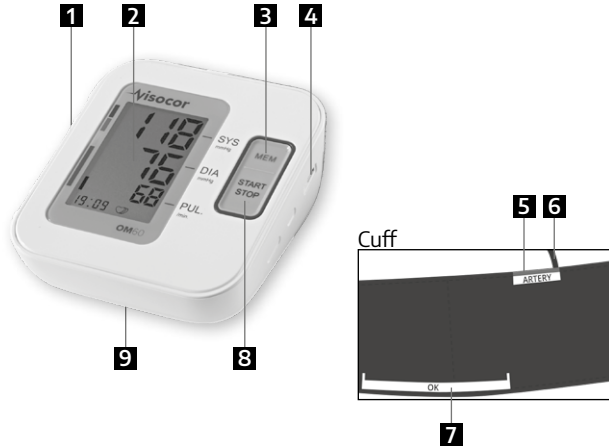
2. Important technical details

- The unit contains sensitive parts and must be protected from extreme temperature fluctuations, humidity, shocks, dust and direct sunlight.
- Do not knock or drop the device. Avoid exposing the device to strong vibrations.
- The unit must only be operated with the cuff and accessories provided (see "Original spare parts and accessories" on page 21). Using different cuffs or accessories can lead to incorrect measurement results. The warranty will be invalidated if the unit is damaged by third-party accessories!
- A consistently good power supply to the device is necessary for fault-free blood pressure measurements.
 - Only use long-life alkaline batteries (4 x 1.5 V, size AAA/LR03).
 - Always replace all batteries simultaneously during battery replacement. Do not mix new and old batteries or batteries of different types. Do not use batteries beyond the specified expiry date.
 - When using the device with a mains adapter, please only use the visocor U2MC mains adapter, which has been specially tested for medical devices.

- Using this device in the vicinity of mobile phones, microwaves or other devices with strong electromagnetic fields can cause malfunctions and inaccurate measurements.
- Never open or modify the device or the cuff (except for replacing the batteries). If the unit has been opened, it must be subjected to a metrological inspection by an authorised institution.
- The patient is the intended user. The device may only be used for measurements, for changing the battery and for care as described in the user manual. It may not be used for any other purposes than those described in the user manual.
- To avoid inaccurate readings, please adhere to the intended operating and storage conditions. See "Technical data" on page 20.
- The inflating and measuring procedure can be interrupted by pressing the Start/Stop button or by removing the cuff. The device then stops the inflation procedure and deflates the cuff.
- Before use, check that the device is operating reliably and is in proper condition. Do not use the device if it is damaged, as this can lead to injuries or inaccurate measurements.
- When using the power adapter, always make sure that the adapter and cable are not damaged.
- If the device malfunctions or is faulty, please refer to the troubleshooting guide starting on page 19, or contact customer service (see page 20).
- Any serious adverse effects linked to the product must be reported to the manufacturer and the relevant authorities in the member state in which the user/patient resides.

C Operating the unit

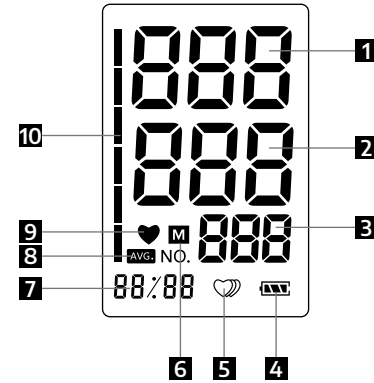
1. Unit description



- 1** Cuff socket
- 2** Displays
- 3** Memory recall button
- 4** Connecting socket for mains adapter
- 5** Artery marking
- 6** Air hose
- 7** Marking for arm circumference
- 8** Start/Stop button
- 9** Battery compartment

C Operating the unit

2. Displays



- 1** SYS = Systole (upper blood pressure value)
- 2** DIA = Diastole (lower blood pressure value)
- 3** PUL. /min = Pulse calculated pulse frequency per minute or memory space
- 4** Battery check display
- 5** Irregular pulse waves
- 6** Memory code
- 7** Date/time
- 8** Average value memory
- 9** Pulse signal display
- 10** WHO classification (page 15)

3. Important usage information

The measurement results of automated blood pressure monitors can be influenced by the measuring location, posture, previous exertion and general physical condition. Please pay attention to the usage information in order to obtain accurate readings.

- Do not consume alcohol, caffeine or smoke for at least one hour before measuring.
- Rest for at least 5 minutes before taking the measurement. Depending on the previous degree of exertion, you may even need to rest for up to an hour.
- Expose the upper arm. Under no circumstances may clothes hinder the blood flow to or from the arm, as this affects the blood pressure at the measuring point and can lead to incorrect readings.
- Do not move or talk during measuring.
- Breath slowly and deeply. Do not hold your breath.
- To attain comparable results, perform the measurement under conditions that are as similar to each other as possible, e.g. always at the same time of day in the same place.
- In order to exclude side differences and to obtain comparable measurement results, it is important to always take the measurement on the same arm. Ask your doctor which side it is advisable for you to measure.
- Blood pressure is not a fixed value. It can go up or down by more than 20 - 40 mmHg in patients within a few minutes.

4. Initial operation of the unit

- Insert the batteries provided into the device.
- If the unit is to be operated from the mains power supply, the cable plug of the mains adapter (not included in the scope of delivery) must be inserted into the connection socket on the right-hand side of the unit. The batteries are switched off automatically.
- Please only use the visacor U2MC mains adapter. See “Original spare parts and accessories” on page 21.

5. Inserting/replacing batteries, battery icon

- Open the cover of the battery compartment on the underside of the device by sliding it in the direction indicated by the arrow (Figure 1).
- Remove the old batteries from the device and insert the new ones. Please ensure correct polarity (marking in battery compartment).
- Close the battery compartment again by sliding the cover in the opposite direction to that indicated by the arrow until it clicks into place (Figure 1).

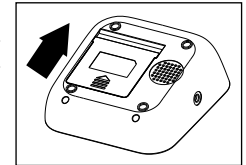



Figure 1

If the “Empty battery ” symbol appears on the display, switch off the device and replace the batteries.

If the device will not be operated for more than three months, remove the batteries. Leaking battery fluid can damage the device. If leaked battery fluid comes into contact with eyes, rinse the affected eye immediately with plenty of water. Seek immediate medical attention.

Once the batteries have been replaced, the readings will still be stored in the memory, but the date and time will need to be reset. To do this, follow the steps below.

6. Setting the date/time

- With the device switched off, press and hold the start/stop button until the four-digit year appears on the display (Figure 1).
- Press the Memory button to set the year. Press the Start/Stop button to confirm the selected year and proceed to setting the date (Figure 2).
- Set the month with the Memory button and confirm this with the Start/Stop button. Set the day in the same way (Figure 2).
- Use the memory button to set the hour on the clock and confirm by pressing the start/stop button. Follow the same procedure to set the minutes (Figure 3).



Figure 1



Figure 2



Figure 3

7. Attaching the cuff

Before applying the cuff, check that the circumference of your upper arm is within the range specified on the cuff. Wrap a tape measure around the centre of your upper arm when it is relaxed to measure its diameter. An incorrect cuff size could result in inaccurate readings.

- Expose your upper arm.

- Push the cuff onto the arm until the lower edge of the cuff is 2-3 cm above the crook of the arm (Figure 1).

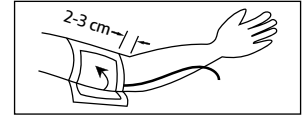


Figure 1

- The artery marking on the cuff (ARTERY) must be placed over the artery that runs along the inside of the arm.
- The cuff should not be too tight. You should be able to insert two fingers between the arm and the cuff.
- Now pull the free end of the cuff tight (Figure 2) and close the Velcro fastener (Figure 3).
- Check that the metal bracket on the cuff is within the "Marking for arm circumference (OK)" guide on the edge of the cuff when closed (Figure 4).
- Connect the plug of the cuff to the cuff connection on the left-hand side of the device. Ensure that the plug is fully inserted into the device. Do not force the plug into the hole.

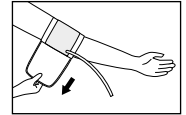


Figure 2

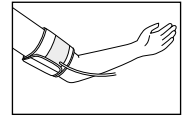


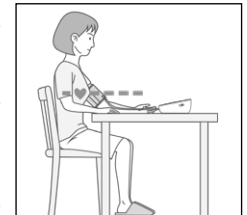
Figure 3



Figure 4

8. Body posture when taking measurements

- Sit at a table (preferably at the height of a dining table, not a coffee table).
- Sit with your back against the backrest of the chair.
- Lay your extended and relaxed arm with the cuff on the table and do not



move it during the measurement; do not talk. The palm should be facing upwards.

- Put your feet on the floor and do not cross your legs.

9. Measuring blood pressure

- Switch on the unit by pressing the Start/Stop button. The full display appears (Figure 1).
- After the device has completed its calibration against the ambient air pressure, the automatically controlled inflation process starts. The cuff is inflated to the pressure required for measurement (Figure 2).
- The actual measurement takes place with the start of deflation (Figure 3). The ♥ symbol in the display flashes until the pulse frequency is displayed.
- Once the measurement has been taken, the cuff automatically deflates. The determined systole, diastole and pulse values are shown on the display (Figure 4).
- The device switches itself off after approximately 60 seconds. You can also switch the device off before this by pressing the Start/Stop button.

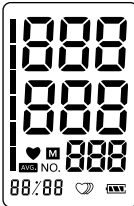


Figure 1

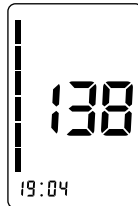


Figure 2



Figure 3



Figure 4

10. Classification of the measured values (WHO)

The device will classify the measured blood pressure value in accordance with the guidelines of the World Health Organisation (WHO) and the International Society of Hypertension (ISH) of 1999. By looking at the bars on the display, you will be able to read the classification taken after every measurement.

Classification	Systolic blood pressure = upper value mmHg	Diastolic blood pressure = lower value mmHg
strong hypertonia (level 3)	≥ 180	≥ 110
mid-level hypertonia (level 2)	160-179	100-109
mild hypertonia (level 1)	140-159	90-99
Highly normal	130-139	85-89
Normal	120-129	80-84
Optimal	< 120	< 80

Depending on age, weight and general health, the blood pressure values can be different. Only a doctor can determine the right blood pressure range for you and assess whether your blood pressure has reached a dangerous level for you. Discuss your blood pressure values with your doctor.

Never change the dose of medicines prescribed by your doctor!

11. Irregular pulses

The ♥ symbol indicates that definite pulse irregularities have been detected during the measurement.

In this case, the measurement result may deviate from your normal blood pressure. Repeat the measurement.

If the symbol appears, this is usually no cause for concern. However, if the symbol appears on a regular basis (e.g. several times in a week when blood pressure is measured daily), consult a doctor for advice.

The device must not be used in place of a cardiac exam; it is only intended for early detection of an irregular pulse.

12. Using the memory

Measured results are automatically stored in the memory. The memory can store up to 120 results and the average value. The average value is calculated from the last three measurements taken.

When more than 120 measured values have been stored, the oldest value (NO. 120) is deleted to allow the latest value (NO. 1) to be recorded.

Data retrieval

To retrieve the data, press MEM with the device switched off. The average value of the stored results is displayed along with "AVG." (Figure 1).

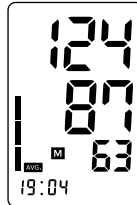


Figure 1

Press the Memory button again to display the most recently measured values. These measured values are first displayed with their memory number (Figure 2) and then with the pulse value (Figure 3).

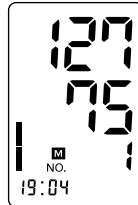


Figure 2



Figure 3

The measured value display also alternates between showing the date and time of the measurement.

The stored data remain visible in the display for around 60 seconds. The unit then switches itself off.

Deleting data

Only the entire memory can be deleted. It is not possible to delete individual measured values.

- Press the MEM key in the shut-off state to get to the memory.
- Press and hold the MEMORY button again until the measured values are replaced by zeroes (Figure 4). The memory has now been deleted.

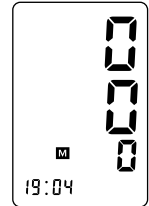


Figure 4

The memory is not automatically deleted when the battery is replaced. The saved readings are retained until they are deleted manually.

D What you should know about blood pressure

1. Systolic and diastolic blood pressure values

The cardiovascular system has the important function of supplying all organs and tissues in the body with sufficient amounts of blood and of transporting metabolites. To do so, the heart contracts and expands at a regular rate of about 60 to 80 times per minute. The pressure of the flowing blood on the artery walls caused by the heart contracting is termed systolic. The pressure in the ensuing relaxation phase, when the heart refills with blood, is termed diastolic. During daily measurement you determine both values.

2. Why you measure different values

Our blood pressure responds to internal and external influences like a sensitive measuring instrument. Affected by mental, physical and environmental influences, it varies all the time and never remains constant. Reasons for fluctuating blood pressure values can be: moving, speaking, eating, consuming alcohol or nicotine, nervousness, inner tension, emotions, room temperature, recent urination or bowel movements, environmental influences such as movements and sounds, etc. Even changes in the weather and climate can have an effect on your blood pressure.

This explains why values measured at the doctor are often higher than those you obtain at home in your usual environment.

3. Why you should measure blood pressure regularly

Even the time of day has an effect on your blood pressure. The values are at their highest during the day. In the course of the afternoon and in the evening, they drop slightly. They are low while you are sleeping, but rise again relatively quickly once you get up.

One-off and irregular measurements therefore say little about your actual blood pressure. A reliable assessment is possible only when measurements are taken regularly. Discuss the measurement values with your doctor.

Technical information

1. Error messages

Failure encountered	Possible cause	Corrective action
Display Er 1	Sensor error or faulty pressure pump	If the fault occurs several times, contact the customer service centre.
Display Er 2	Device could not detect a pulse or could not calculate blood pressure values.	Check the hose line and air plug for blockages. Repeat the measurement. If the error occurs again, please contact the customer service centre.
Display Er 3	Abnormal measured values (systole \leq 45 mmHg, diastole \leq 24 mmHg)	Repeat the measurement. If the fault occurs several times, contact the customer service centre.
Display Er 4	The cuff takes a long time to inflate. The cuff is not sitting correctly or the connection to the tube is not airtight.	Fasten the cuff correctly and check that the air plug had been fully inserted into the device. Repeat the measurement.
Display Er 5	The air hose is kinked.	Unkink the air hose. Repeat the measurement.
Display Er 6	The device has detected extensive pressure fluctuations.	Repeat the measurement. Do not move. Do not speak.
Display Er 7	The pressure measured by the sensor is over the limit value.	Repeat the measurement. If the fault occurs several times, contact the customer service centre.
Display Er 8	The limit is incorrect or the device does not have a limit.	Repeat the measurement. If the fault occurs several times, contact the customer service centre.
Display Hi	Pulse measurement over 200	Repeat the measurement. If the fault occurs several times, contact the customer service centre.

Failure encountered	Possible cause	Corrective action
Display Lo	Pulse measurement under 40	Repeat the measurement. If the fault occurs several times, contact the customer service centre.
No display after unit is switched on	Batteries inserted incorrectly.	Check position of batteries.
	Batteries flat.	Change batteries.
Err is shown on the display, device switches off	Arm movement as the cuff was being pumped	Repeat the measurement. Do not move.
	Talking during the measurement	Repeat the measurement. Do not speak.

2. Customer service

Device repairs may only be performed by the manufacturer or an expressly authorised body. Please contact:

UEBE Medical GmbH
Bgm.-Kuhn-Str. 22
97900 Kulsheim, Germany

info@uebe.com
www.uebe.com

3. Technical data

Model:	visocor OM60
Size:	L = 110 mm x W = 118 mm x H = 52 mm
Weight:	225.5 g
Display:	LCD display (liquid crystal display) 60 x 40 mm
Memory:	120 measured values (stored automatically) and average value (AVG)
Measurement procedure:	Oscillometric determination of systole, diastole and pulse
Pressure display range:	0-299 mmHg

Measurement range:	Diastolic: 40-130 mmHg Systolic: 60-230 mmHg Pulse measurement: 40-199 pulses/minute
Measurement precision:	Blood pressure measurement (cuff pressure): ± 3 mmHg, Pulse rate: ± 5%
Power supply:	4 x 1.5 V AAA LR03 alkaline manganese batteries
	Optional: visocor U2MC mains adapter, output 5 V DC, 1 A
Operating conditions:	Ambient temperature 5 to 40 °C, rel. air humidity 15 to 93 %, air pressure 700 to 1060 hPa
Storage and transport conditions:	Ambient temperature -25 to 70 °C, rel. air humidity ≤ 93 %, air pressure 700 to 1060 hPa
Automatic switch-off:	60 seconds
IP code:	IP 21: Protected against solid foreign particles with a diameter of more than 12.5 mm, protection against water droplets
Protection against electric shock:	Internal power supply, applied part type BF (cuff)
Expected service life:	5 years
Operating mode:	Continuous operation
Classification:	Internal power supply by battery

4. Original spare parts and accessories

The following original spare parts and accessories are available from specialist dealers:

Ring-cuff 22-42 cm type VWR2
Part. no. 2506001, PZN-16353137

visocor U2MC mains adapter
Part no. 2506020, PZN-16353166

Subject to technical modifications.

5. Technical inspection / calibration check

Generally, it is recommended that a metrological inspection is performed every two years. However, professional users in Germany are obligated to do so in accordance with the “Medical Products Operator Ordinance” (Medizinprodukte-Betreiberverordnung).

This can be performed either by UEBE Medical GmbH, an authority responsible for metrology or an authorised maintenance service. Please refer to your national regulations.

Upon request, responsible authorities or authorised maintenance services receive a “Test instruction for metrological inspection” from the manufacturer.

Please only submit the device for metrological inspection together with the cuff and the instructions for use.

Important: No modifications, e.g. opening the device (except to replace the batteries), may be made to this device without the manufacturer’s permission.

6. Explanation of symbols

CE This product complies with Council Directive 93/42/EEC of 5 September 2007 concerning medical devices and bears the mark CE 0123 (TÜV SÜD Product Service GmbH).



Degree of protection against electric shock TYPE BF



Consult the instructions for use



Temperature limits



Humidity limits



Keep dry



Protect from sunlight



Medical device



Reference number = item number



Serial number



Unique Device Identification



Protected against solid foreign particles with a diameter of more than 12.5 mm, protection against water droplets



Direct current



AC



Manufacturer



Protection class II (double insulation)



For indoor use only



Micro USB polarity



Technical equipment and batteries do not belong in household waste. They must be disposed of at appropriate collection and disposal points.

7. Electromagnetic compatibility (EMC)

The unit is an electrical medical product and is subject to special precautionary measures with regard to EMC which must be published in the instructions for use.

Portable and mobile HF communications equipment can affect the unit. Use of the unit in conjunction with non-approved accessories can affect the unit negatively and alter the electromagnetic compatibility. The unit should not be used directly adjacent to or between other electrical equipment.


The unit satisfies the EMC requirements of the international standard IEC60601-1-2. The requirements are satisfied under the conditions described in the tables below.

Guidance and manufacturer's declaration – 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 tests	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) according to IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/bursts according to IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power lines ±1 kV for input and output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surges according to IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions, and voltage variations according to IEC 61000-4-11	<5 % U _n (>95 % dip in UT) for 0.5 cycle 40 % U _n (60 % dip in UT) for 5 cycles 70 % U _n (30 % dip in UT) for 25 cycles <5 % U _n (>95 % dip in UT) for 5 sec.	<5 % U _n (>95 % dip in UT) for 0.5 cycle 40 % U _n (60 % dip in UT) for 5 cycles 70 % U _n (30 % dip in UT) for 25 cycles <5 % U _n (>95 % dip in UT) for 5 sec.	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device is powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: U _n is the AC mains voltage before the test level is applied			

Guidance and manufacturer's declaration - 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	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
RF interference conducted through cables according to IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	Portable and mobile RF radio equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d=1.2\sqrt{P}$ 80 MHz to 800 MHz $d=2.3\sqrt{P}$ 800 MHz to 2.5 GHz
Radiated RF interference according to IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^a , should be less than the compliance level in each frequency range ^b . Interference may occur in the vicinity of equipment marked with the following symbol: 

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

^a Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio stations and TV stations cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Guidance and manufacturer's declaration - electromagnetic emissions

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

Emission measurements	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic currents according to IEC 61000-3-2	Class A	
Voltage fluctuations/flicker according to IEC 61000-3-3	Complies	

Recommended separation distances between portable and mobile RF communications equipment and the device.

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=[3,5/\sqrt{P}]\sqrt{P}$	80 MHz to 800 MHz $d=[3,5/\sqrt{P}]\sqrt{P}$	800 MHz to 2.5 GHz $d=[7/\sqrt{P}]\sqrt{P}$
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 rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Maintaining the unit

- Wash your hands after every measurement. If the device is used by more than one person, wash your hands before and after every use.
- The unit contains sensitive parts and must be protected against strong variations in temperature, air humidity, dust and direct sunlight.
- The cuff contains a sensitive air-tight bladder. Handle the cuff carefully and avoid any type of strain due to twisting or kinking. Keep the cuff away from sharp or pointed objects.
- Keep the device clean. Check for cleanliness after use. Please use a soft, dry cloth for cleaning. Do not use benzene, thinners or other strong solvents.
- The cuff may absorb sweat and other fluids. Inspect the cuff for marks or discolorations after each use. To clean the device, carefully wipe the surface using a damp soapy cloth. Do not wash the device in the dishwasher or washing machine. Do not immerse the device in water.
- Take care when storing the device. Ensure that no heavy objects are resting on the device or the cuff and that the air hose is not kinked. Do not wind the air hose too tightly.
- To separate the cuff from the main device, please do not pull the air hose, but grip the air connector and gently pull it off.

Warranty

The device has been manufactured and tested with great care. However, in the unlikely event of a defect being detected after delivery, we provide warranty in accordance with the following terms and conditions:

During the warranty period of 2 years from the date of purchase we reserve the right either to repair any such defect at our expense or to supply a perfect replacement unit.

Excluded from the warranty are parts subject to normal wear and tear as well as damage caused by non-compliance with the instructions for use, improper handling (e.g. unsuitable power sources, breakages, leaking batteries) and/or disassembly of the unit by the purchaser. Furthermore, no claims for damages against us are substantiated by the warranty.

Warranty claims can only be advanced in the warranty period and by presenting proof of purchase. In the event of a warranty claim, the unit must be sent to the following address together with the proof of purchase and a description of the complaint:

UEBE Medical GmbH
Service-Center
Zum Läger 1
97900 Kulsheim
Germany

The cost of returning the device to our factory shall be borne by the sender. Complaints that are sent back without prepayment will not be accepted.

The statutory claims and rights of the buyer against the seller (for example, defect claims, producer liability) are not restricted by this warranty.

Please note: In the case of a warranty claim, please make sure to enclose the proof of purchase.

REF 25060 **PZN-16259941** **Medical aid code number: 21.28.01.2159**

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