DIGITAL AUTOMATIC BLOOD PRESSURE MONITOR



MD4200

Instructions for use

Blood pressure monitor

ENGLISH

Pleaseread these instructions for use carefully and keep them for later use, be sure to make them accessible to other users and observe the information they contain.

1. Getting to know your device

Check that the packaging of the Sanitas MD4200 blood pressure monitor has not been tampered with and make sure that the required contents are present. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed. If you have any doubts, do not use the device and contact your retailer or the speciÿed Customer Services address.

The upper arm blood pressure monitor is used to carry out non-invasive measurement and monitoring of the arterial blood pressure values in adults.

This allows you to quickly and easily measure your blood pressure, save the measured values and display the development and average values of the measured values taken.

You are also warned of possible existing cardiac arrhythmia. The recorded values are classiyed and evaluated graphically. Store these instructions for use for future reference and make them accessible to other users.

2. Important notes



The following symbols are used in these instructions for use, on the packaging and on the type plate for the device and the accessories:

\triangle	Attention
i	Note Note on important information
(3)	Observe the instructions for use
	Applicationpart, type BF
===	Direct current
X	Disposal in accordance with the Waste Electrical and Electronic Equipment EC Directive – WEEE
***	Manufactuer

Stor age Permissiblestorage temperature and humi dity	
Operating 40°C RH 15-93 %	Permissibleoperating temperature and humidity
*	Protect from moisture
SN	Serialnumber
C E 0123	The CElabelling certifies that the product complies with the essential requirements of Directive 93/42/EE n medical products.



- In order to ensure comparable values, always measure your blood pressure at the same time of day.
- Before every measurement, relax for about ÿve minutes.
- If you want to perform several measurements on the same person, wait you minutes between each measurement.
- Do not take a measurement within 30 minutes of eating, drinking, smoking or exercising.
- Repeat the measurement if you are unsure of the measured value.
- The measured values taken by you are for your information only – they are no substitute for a medical examination. Discuss the measured values with your doctor and never base

- any medical decisions on them (e.g. medicines and their administration).
- Do not use the blood pressure monitor on newborns or patients with preeclampsia. We recommend consulting a doctor before using the blood pressure monitor during pregnancy.
- Cardiovascular diseases may lead to incorrect measurements or have a detrimental effect on measurement accuracy. The same also applies to very low blood pressure, diabetes, circulatory disorders and arrhythmias as well as chills or shaking.
- The blood pressure monitor must not be used in connection with a high-frequency surgical unit.
- Only use the device on people who have the speciyed upper arm measurement for the device.
- Please note that when in ating, the functions of the limb in question may be impaired.
- During the blood pressure measurement, the blood circulation must not be stopped for an unnecessarily long time. If the device malfunctions remove the cuff from the arm.
- Avoid any mechanical restriction, compression or bending of the cuff line.
- Do not allow sustained pressure in the cuff or frequent measurements. The resulting restriction of the blood "ow may cause injury.
- Make sure that the cuff is not placed on an arm in which the arteries or veins are undergoing medical treatment, e.g. intravascular access or intravascular therapy, or an arteriovenous (AV) shunt
- Do not use the cuff on people who have undergone a mastectomy.

- Do not place the cuff over wounds as this may cause further injury.
- Please note that data transfer and data storage is only possible when your blood pressure monitor is supplied with power. As soon as the batteries are empty, the blood pressure monitor loses the date and time.
- To conserve the batteries, the blood pressure monitor switches off automatically if no buttons are pressed for 30 seconds.
- The device is only intended for the purpose described in these instructions for use. The manufacturer is not liable for damage resulting from improper or careless use.

Instructions for storage and maintenance

- The blood pressure monitor is made from precision and electronic components. The accuracy of the measured values and service life of the device depend on its careful handling:
 - Protect the device from impacts, humidity, dirt, marked temperature °uctuations and direct sunlight.
 - Do not drop the device.
 - Do not use the device in the vicinity of strong electromagnetic ÿelds and keep it away from radio systems or mobile telephones.
 - Only use the cuff included with the delivery or original replacement parts. Otherwise incorrect measured values will be recorded.
- Do not press the buttons before the cuff is placed on the arm.

Notes on handling batteries

- If your skin or eyes come into contact with battery °uid, rinse the affected areas with water and seek medical assistance.
- Choking hazard! Small children may swallow and choke on batteries. Store the batteries out of the reach of small children.
- Observe the plus (+) and minus (-) polarity signs.
- If a battery has leaked, put on protective gloves and clean the battery compartment with a dry cloth.
- · Protect batteries from excessive heat.
- Risk of explosion! Never throw batteries into a ÿre.
- Do not charge or short-circuit batteries.
- If the device is not to be used for a relatively long period, take the batteries out of the battery compartment.
- Use identical or equivalent battery types only.
- Always replace all batteries at the same time.
- Do not use rechargeable batteries.
- Do not disassemble, open or crush the batteries.

A Battery disposal

- The empty, completely discharged batteries must be disposed
 of through specially designated collection boxes, recycling
 points or electronics retailers. You are legally required to dispose of the batteries.
- The codes below are printed on batteries containing harmful substances:

Pb = Battery contains lead,

Cd = Battery contains cadmium,

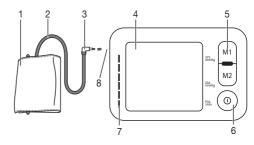
Hg = Battery contains mercury



instructions for repairs and disposal

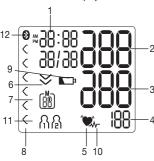
- Batteries do not belong in household waste. Please dispose of empty batteries at the collection points intended for this purpose.
- Do not repair or adjust the device yourself. Proper operation can no longer be guaranteed in this case.
- Repairs must only be carried out by Customer Services or authorised suppliers.
- Do not open the device. Failure to comply will invalidate the warranty.
- For environmental reasons, do not dispose of the device in the household waste at the end of its useful life. Dispose of the device at a suitable local collection or recycling point. Dispose of the device in accordance with EC Directive WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authorities responsible for waste disposal.

3. Device description



- 1. Cuff
- 2. Cuff line
- Cuff connector
- 4. Display
- 5. Memory buttons M1/M2
- 6. START/STOP button ①
- 7. Scale for classifying the measurements
- 8. Connection for cuff connector (left-hand side)

Information on the display:



- 1. Time/date
- 2. Systolic pressure
- 3. Diastolic pressue
- 4. Calculated pulsevalue
- 5. Pulsesymbol
- 6. Releaseair (arrow)
- 7. Number of memory space/memory displayfor average value (A), morning (AA), evening (AA)
- 8. Classification of measurements
- 9. Battery displaysymbol
- 10. Cardiacarrhythmiasymbol



12. Symbol for Blue tooth ® transfer 8

System requirements for the HealthCoach app Bluetooth @4.0,iOSfrom Version7.0,Android Version 4.3 with Bluetooth ® Smart Ready

List of compatible devices:



TM devices from

4. Preparing the measurement Inserting the batteries

- Removethe battery compatement lid on the rear of the device.
- Insert four 1.5 V AAA (alkaline type LR03)batteries.Make sure that the batteries are inserted the correct wayround. Do not use rechargeable batteries.
- 4 x 1. 5 V AAA
- · Closethe battery compartment lid again carefully.

All display elements are brie'v displayed, 24 h or 12 h 'ashes in the display. Now set the date and time as described below.

If the battery replacement symbol is permanently displayed, you can no longer perform any measurements and must replace all batteries. Once the batteries have been removed from the device, the date and time must be set again. Any saved measured values are retained.

Set the hour format, date, time and Bluetooth®settings

The following section describes the functions and settings available on the blood pressure monitor.

Hour format Bluetooth ® Date Time

It is essential to set the correct date and time. Otherwise, you will not be able to save your measured values correctly with a date and time and access them again later.

If you press and hold the M1 or M2 memory button, you can set the values more quickly.

Press and hold the START/STOP button (1) for 5 seconds.

The hour format now °ashes on the display. Select the desired hour format using the M1/M2 memory buttons and conyrm with

the **START/STOP** button (1).

Hour format

The year °ashes on the display.

• Select the year using the M1/M2 memorv buttons and convrm with the START/ STOP button (1).

The month °ashes on the display. Select the month using the M1/M2 memory buttons and convrm with the START/ STOP button (1).

The day °ashes on the display.

• Select the current day using the M1/M2 memory buttons and conyrm with the START/STOP button (1).

If you have set the 12h hour format, the month is displayed before the day.

The hours °ash on the display.

 Select the current hours using the M1/ M2 memory buttons and conyrm with the START/STOP button (1).

The minutes °ash on the display.

 Select the current minutes using the M1/ M2 memory buttons and conÿrm with the START/STOP button (1).

-20' 15:

1-);-

-):00





Date

Bluetooth ®

The Bluetooth® symbolflasheson the display

- Usethe M1/M2 memory buttons to select whether automatic Blueboth® data transfer is activated (Blueboth® symbol flashes) or deactivated (Blueboth® symbol is not shown) and confirm with the START/STOP button ①.
- Bluetooth® transferswill reduce the battery life.

5. Measuring blood pressure

Ensue the device is at room temperature before measuring. The measurement can be performed on the left or right arm.

Attaching the cuff

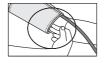
Placethe cu_e on to the bare left upper arm. The circulation of the arm must not be hindered by tight clothing or similar.

The cu_ must be placed on the upper arm so that the bottom edge is positioned 2-3 cm above the elbow and over the artery. The line should point to the centre of the palm.

Now tighten the free end of the cu, but make sure that it is not too tight around the arm and closethe hookand-loopfastener. The cu, should be fastened so that two fingers fit under the cu.







Nowinsert the cu₂ line into the connection for the cu₂ connector.



If the measurement is performed on the right upper arm, the line should be located on the inside of your elbow. Ensure that your arm is not pressing on the line.

Blood pressure may vary between the right and left arm, which may mean that the measured blood pressure values are different. Always perform the measurement on the same arm.

If the values between the two arms are significantly dier ent, please consulty our doctor to determine which arm should be used for the measurement.

Important: The unit may only be operated with the original cu.. The cu. is suitable for an arm circumference of 22 to 36 cm.

A larger cu_z for upper-armcircumferences of 35 to 44 cm can be obtained from specialistretailers or from the service addressusing order number 163.387.

Adopting the correct posture







- Before every measurement, relaxfor about five minutes.
 Otherwise deviations can occur
- You can take the measurement while sitting or lying down.
 Alwaysmake sure that the cu_i is at heart level.
- To carry out a blood pressue measurement, make sure you are sitting comfortably with your arms and backleaning on something. Do not crossyour legs. Placeyour feet flat on the ground.
- To avoid falsifying the measurement, it is important to remain still during the measurement and not to speak.

Performing the blood pressure measurement

As described above, attach the cuff and adopt the posture in which you want to perform the measurement.

 Press the START/STOP button ① to start the blood pressure monitor.
 All display elements are brie°y displayed.



The blood pressure monitor will begin the measurement automatically after 3 seconds

Measurement

You can cancel the measurement at any time by pressing the START/STOP button **①**.

As soon as a pulse is found, the pulse symbol \P will be displayed.

 The systblic pressue, diastblic pressue and pulserate measuementsare displa ved.



 Er appearsif the measurement could not be performed properly (see chapter 9 "Er ror messages/toubleshooting") Repeat the measurement.



- Now selectthe desired user memory by pressing the M1 or M2 memory buttons. If you do not select a user memory, the measurement is stored in the mostre cently used user memory. The relevant ∫∫ or ∫₂ symbol appears on the display.
- Pressthe START/STOP button ① to switcho, the blood pressue monitor. The measurement is then sto red in the selected user memory.
- If the deviceis not switchedo, manually, it will switch o, automatically after 3 minutes.

If Bluetooth * data transfer hasbeen activated, data is by transfered after having confirmed the user memory by pressing the pressing the START/STOP button ①.

- The Blueboth® symbolon the displayflashesand the blue LEDlights up. The blood pressue monitor now attempts to connect to the app for approx.30 seconds.
- The Blueboth® symbolstopsflashing assoon as a connection is established All measurement data is automatically transferred to the app. Once the data has been successfull transferred, the devices witches o. If the data transfer was unsuccessfult he blue LED goes out and "Er?" appears on the display
- If a connection to the app cannot be established after 30 seconds the Blue both ** symbol goes out and the blood pressue monitor switcheso, automatically after 3 minutes.

Pleasenote that you must add the blood pressue monitor in "Mydevices"in the "HealthCoachappto enabledatatransfers. The "HealthCoachapp must be activeto allow datatransfer If the latest data is not displayed on your smart phone, repeat the data transferas described in chapter 7.

If you forget to turn o_the blood pressue monitor, it will switcho_automatically after approximately 3 minutes. In this casetoo, the value is stored in the selected or most recentuser memory and the data is transferred if Bluetooth® data transferhas been activated.

 Wait at least5 minutes before taking ano ther measurement.



6. Evaluating results

Cardiac arrhythmia:

Measurement

This device can identify potential disruptions of the heart rhythm when measuring and if necessary, indicates this after the measurement with the symbol **\text{W}_\text{\chi}.

Thiscanbe an indicator for arrhythmia. Arrhythmia is a condition in which the heart rhythm is abnormal because of flaws in the bioelectrical system that regulates the heart beat. The symptoms (skippedor premature heart beats, pulse being slow or too fast) can be caused by factors such as heart disease age, physical make-up, excess timulants, stressor lack of sleep.

Arrhythmiacanonly be determined through an examination by your doctor.

If the symbol who is shown on the displayafter the measue ment has been taken, repeat the measuement. Pleaseen suie that you rest for 5 minutes beforehand and do not speakor moveduring the measuement. If the symbol who appears frequently, please consulty our doctor.

Self-diagnosiand treatment based on the measuements can

be dangerous. Always follow your GPs instructions.

Classification of measurements:

The measurements can be classified and evaluated in accordance with the following table.

However, these standard values serve only as a general

guideline, as the individual blood pressure varies in different people and different age groups etc. It is important to consult your doctor regularly for advice. Your

doctor will tell you your individual values for normal blood pressure as well as the value above which your blood pressure is classiyed as dangerous.

The classiÿcation on the display and the scale on the unit show which category the recorded blood pressure values fall into. If the values of systole and diastole fall into two different categories (e.g. systole in the ,High normal' category and diastole in the ,Normal' category), the graphical classiÿcation on the device always shows the higher category; for the example given this would be ,High normal'.

Blood pressure value category	Systole (in mmHg)	Diastole (in mmHg)	Action
Setting3: severe hyper - tension	″ 180	″ 110	seekmedicalat - tention
Setting2: moderate hyper - tension	160-179	100-109	seekmedicalat - tention
Setting1: mild hyperten - sion	140-159	90-99	regular monitoring by doctor
High normal	130-139	85-89	regular monitoring by doctor
Normal	120-129	80-84	self-monitoring
Optimal	<120	<80	self-monitoring

Source:WHQ 1999(World Health Organization)

7. Display and delete measured values

The results of every successful measurement are stored together with the date and time. The oldest measurement is overwritten in the event of more than 60 measure ments.

- Selectthe desired usermemory ($\bigcap_{\Omega} \bigcap_{\Omega}$) with the M1 or M2 memory buttons if the device is switchedo.
- To view the measurement data for user memory pressthe M1 memory button.
- To view the measurement data for user memory (2), pressthe M2 memory button. The average of all measurements appears on the display.

If Blueboth®isactivated (the symbol flasheson the display), the blood pressue monitor attempts to connect to the app. If you pressthe M1 button in the meantime, the transferis cancelled and the average values are displayed If you press the M2 button, the transferis cancelled and the measuement data of user memory is displayed. The symbolis no longer shown. The buttons are deactivated as soon as a connection is established and the data is transferred.



Average values

(i) Pressthe M1 button if you have selected usermemory 1.
Pressthe M2 memory button if you have

R flasheson the display
The average value of all savedmeasued valuesin this user memory is displayed.

selected user memory 2.



• Pressthe relevant memory button (M1 or M2).

Rn flasheson the display

The average value of the morning measue ments for the last 7 days is displayed (mor ning: 5.00a.m.– 9.00a.m.).



Pressthe relevant memory button (M1 or M2).

Pf flasheson the display

The average value of the evening measurements for the last 7 days is displayed (evening: 6.00 p.m. – 8.00 p.m.).



When the relevant memory button (M1 or M2) is pressed again, the last individual measurement is displayed (in this example, measurement 03).



Deleting individual measurements

When the relevant memory button (M1 or M2) is pressed again, you can view your individual measurements.

- To switchthe deviceo again, pressthe START/STOP button (1).
- (i) You can exit the menu at any time by pressing the START/STOP button (ii).
- To clearthe memory of the relevant user memory, you must first selecta user memory.
- Start the retrieval of the average measued values.
 A flasheson the displayand the average value of all savedmeasued values in this user memory is displayed.
- Pressand hold the memory button M1 or M2 for 5 secondsdepending on the user memory you are in.

All the values in the current user memory are deleted.



To clear individual measurements from the relevant user memory, you must first select a user memory.

- Start the retrieval of the individual measured values.
- Pressand hold the memory button M1 or M2 for 5 seconds(depending on the user memory you are in).
- The selected value is deleted. The devicebriefly dis plays CL 00.
- If you would like to delete other values, repeat the process described above.

You canswitcho, the deviceat any time by pressing the START/STOP ① button.

Transfer via Bluetooth ® Smart

It is also possible to transfer the measued valuess aved on the device to your smartphone using Blue both ® Smart.

You will need the Health Coachapp for this. The app is availa ble from the App Store.

Proceedasfollowsto transfervalues:

If Blueboth® is activated in the settingsmenu, the data is transferred automatically after the measurement. The symbol appears in the top left of the display (see chapter 4 "Preparing the measurement").



Step 1: MD4200

Activate Bluetooth® on your device(see chapter 4 "Preparing the measurement", Bluetooth®).





Step 2: "HealthCoach" app
In the HealthCoachapp, add the MD4200under
"Settings/Mydevices".





Step 3: MD4200 take a measurement.



Step 4: MD4200 datatransferimmediately following measurements.

 If Bluetooth *data transfer hasbeen activated, data is by transferred after having confirmed the user memory by pressing the pressing the START/STOP button ①.



Step 4: MD4200 Datatransferat a later point:

 Goto memory mode (chapter 7). Selectthe desiled usermemory. The Blueboth ® transferstarts automatically. The Health Coachapp must be active to allow data transfer It your smartphone has a protective cover, remove this to ensure that there is no interference during the transfer Beginthe data transfer in the Health Coachapp.

8. Cleaning and storing the unit

- Cleanthe deviceand cu_e carefully using a slightly damp cloth only.
- Do not use any cleaning agents or solvents.
- Underno circumstances should you hold the unit under water, as this can causeliquid to enter and damage the unit.
- If you store the device,no heavy objects should be placed on top of it. The cu, line should not be bent sharply.

In such cases repeat the measurement and/or data transfer Ensue that the cu_{ϵ} line is correctly attached and that you do not move or speak during the measurement.

9. Error messages/troubleshooting

In the event of errors, the error message $\mathcal{E}_{r_{-}}$ appearson the display

Error messagesmay appearif:

- •it wasnot possible to record the pulse: Eri;
- •you move or speakduring the measurement: *E r***2**;
- •the cu_isfastened too tightly or loosely: Er3;
- •errors occurduring the measurement: Er4;
- •the pump pressue is higher than 300 mmHg: Er5;
- •the batteries are almost empty
- Er7the datacould not be sent via Blue both ®.

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10. Technical specifications

ModelNo.	MD4200		
Measuement me - thod	Oscillometric, non-invasive blood pressure measurement on the upper arm		
Measuement range	Cuff pressure 0-250 mmHg, systolic 50-250 mmHg, diastolic 30-200 mmHg, pulse 40-180 beats/minute		
Displayaccuacy	Systolic ± 3 mmHg, diastolic ± 3 mmHg, pulse ± 5 % of the value shown		
Measuement inac - curacy	Max. permissible standard deviation according to clinical testing: Systolic 8 mmHg/ Diastolic 8 mmHg		
Memory	2 x 60 memory spaces		
Dimensions	L139 mmxW94 mmxH48mm		
Weight	236 (without batteries and cuff)		
Cuff size	22 to 44 cm		
Permissible operating conditions	g +5 °C to +40 °C, 15%- 93% relative air humidity (non-condensing)		

Permissible storage conditions	-25°C to + 70°C, ≤ 93% relative humidity, 700-1060 hPa ambient pressure
Powersupply	4x 1.5 V === AAA batteries
Battery life	Lasts for approx. 200 measurements depending on the blood pressure and inflation pressure as well as the number of Bluetooth® connections.
Accessories	Cuff, instructions for use, storage pouch
Classification	Internal supply, no AP or APG, continuous operation, application part type BF
Bluetooth (BLE) Module operation frequency:	2402-2480MHz
Maximum Transmit Power:	0.1dBm
Data transfer via Bluetooth®wireless technology	The blood pressure monitor uses <i>Bluetooth</i> ® Smart (low energy), 2.4 GHz frequency band, compatible with <i>Bluetooth</i> 4.0smartphones/tablets
	List of supported smartphones/tablets Service Life 1 Year

Technical information is subject to change without notification to allow for updates.

This device complies with European Standard EN60601-2 and

This device complies with European Standard EN60601-2 and is subject to particular precautions with regard to electromagnetic

compatibility. Please note that portable and mobile HF communication systems may interfere with this unit. More details can be requested from the stated Custom-er Services

- address or found at the end of the instructions for use.

 The device complies with the EU Medical Devices Directive
- 93/42/EC, the German Medical Devices Act (Medizinproduk-tgesetz) and the standards ISO EN81060-1
 - (non-invasive sphygmomanometers Part 1: Requirements and test methods for non-automatic measurement type),
 - and test methods for non-automatic measurement type), EN1060-3 (non-invasive sphygmomanometers – Part 3: Supplementary requirements for electro-mechanical blood
- pressure measur-ing systems) and IEC80601-2-30 (Medical electrical equip-ment Part 2 30: Particular requirements for the basic safety and essential performance of automated

non-invasive sphygmomanometers).

- The accuracy of this blood pressure monitor has been carefully checked and developed with regard to a long useful life.
 If using the device for commercial medical purposes, it must
- be regularly tested for accuracy by appropriate means. Precise instructions for checking accuracy may be requested from the service address.
- We hereby guarantee that this product complies with the European R&TTE Directive 1999/5/EC.
 Please contact the specified service address to obtain more detailed information such as the CE conformity declaration.

- · Instructions for use
- The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.
- Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.
- Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in
 improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are
 operating normally.
- Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this
 equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and
 result in improper operation."
- Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should
 be used no closer than 30 cm (12 inches) to any part of the Digital Automatic Blood Pressure Monitor (model name: MD4200),
 including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- If any: a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are
 replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME
 SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be
 specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT
 OR TYPE REFERENCE).
- If any: the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE" need not be used).

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- --Reorient or relocate the receiving antenna.
- --Increase the separation between the equipment and receiver.
- --Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- --Consult the dealer or an experienced radio/TV technician for help.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Appendix I

The Sphygmomanometer (MD4200) is intended for uson the customer or the user of the Sphygmomanometer environment.	e in the electromagnetic environment specified below. (MD4200) should assure that it is used in such an
Emissions test	Compliance
RF emissions CISPR11	Group 1
RF emissions CISPR11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Compliance

Appendix II

Guidance and manufacturer's declaration - electromagnetic Immunity

The Sphygmomanometer (MD4200) is intended for use in the electromagnetic environment specified below. The customer or the user of the Sphygmomanometer(MD4200) should assure that it is used in such an environment.

Immunity test	IEC 60601-1-2 Test level	Compliance level	
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	
Electrical fast transient/burst IEC 61000-4-4	Power supply lines: ±2 kV	Power supply lines: ±2 kV	
Surge IEC 61000-4-5	line(s) to line(s): ±1 kV 100 kHz repetition frequency	line(s) to line(s): ±1 kV 100 kHz repetition frequency	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	0% 0.5 cycle At 0*, 45*, 90*, 135*, 180*, 225*, 270* and 315* 0 % 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz	
Conduced RF IEC 61000-4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	
Radiated RF IEC 61000-4-3	10 V/m 80 MHz - 2,7 GHz 80% AM at 1 kHz	10 V/m 80 MHz - 2,7 GHz 80% AM at 1 kHz	
Proximity Magnetic Fields IEC 61000-4-39	30KHz, CW,8A/m 134.2KHz - PM 2.1KHz, 65A/m 13.56MHz - PM 50KHz, 7.5A/m	N/A	

N/A: UT is the a.c. mians voltage prior to application of the test level.

Remark *. The EUT do not contain magnetically sensitive components or circuitry. So this test do not need to evaluated.

Appendix III

Guidance and manufacturer's declaration - electromagnetic Immunity

The Sphygmomanometer (MD4200) is intended for use in the electromagnetic environment specified below. The customer or the user of the Sphygmomanometer (MD4200) should assure that it is used in such an environment.

Radiated RF IEC61000-4-3	Test Frequency (MHz)	Band (MHz)	Service	Modulation	IMMUNITY TEST LEVEL(V/m)
(Test specifications for	385	380-390	TETRA 400	Pulse modulation 18Hz	27
ENCLOSURE PORT	450	430-470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	28
IMMUNITY to RF wireless communications	710 745 780	704-787	LTE Band 13, 17	Pulse modulation 217 Hz	9
equipment)	810 870 930	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	28
	1720 1845 1970	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	28
	2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	28
	5240 5500 5785	5100-5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	9

Guidance and manufacturer's declaration - electromagnetic Immunity

The Sphygmomanometer (MD4200) is intended for use in the electromagnetic environment specified below. The customer or the user of the Sphygmomanometer (MD4200) should assure that it is used in such an

Test frequency	Modulation	IMMUNITY TEST LEVEL (A/m)
rest frequency	Modulation	INMONITY TEST LEVEL (A/III)
30 kHz	CW	8
134,2 kHz	Pulse modulation ^a 2,1 kHz	65 ^b
13,56 MHz	Pulse modulation ^a 50 kHz	7,5 b

a) The carrier shall be modulated using a 50% duty cycle square wave signal. b) r.m.s., before modulation is applied.



Symbol for the marking of electrical and electronics devices according to Directive 2002/96/EC.

The device, accessories and the packaging have to be disposed of waste correctly at the end of the usage. Please follow Local Ordinances or Regulations for disposal.



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