



Bluetooth Travel Blood Pressure Monitor



Heart Rate



Bluetooth



Data History

LIFE REPORT SYSTEM

Keeping you on track with
all your vital signs



VS-4300-B USER MANUAL

Congratulations on your Vitasigns Life Report System by Vitagoods purchase. Using your **Bluetooth Advanced Travel Blood Pressure Monitor VS-4300**, you are now able to measure, track, and share vital blood pressure parameters from the comfort of your home.

To get the most out of your new blood pressure monitoring device and ensure safety, read the user manual prior to use.

Please follow the instructions carefully, and retain the user manual for future reference. We hope you enjoy the many benefits of your Vitagoods Life Report System.

For assistance, call 1-888-870-2786 or visit www.vitagoods.com.

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SAFETY INFORMATION

This Vitagoods Life Report System device measures systolic and diastolic blood pressure and pulse rate of an adult by using a pressurized cuff on the left wrist. The device is not intended for use on infants and children. The device is designed for home use only, and is not intended for ambulatory measurement (measurement recorded continuously throughout the day).

Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the American National Standard, Manual, Electronic or automated sphygmomanometers.

If you suffer from disorder of heart rhythm (arrhythmia), only use this blood pressure monitor after consulting with your physician. In certain oscillometric cases, this measurement method may produce incorrect readings.

This Life Report System device is not intended to be a diagnostic device. Contact your physician immediately if pre-hypertensive or hypertensive values are indicated.

CAUTION

Read this user manual thoroughly before use. This device is designed and manufactured to operate within defined design limits. Misuse may result in harm. The following should be observed to best use and maintain your device:

- This device is intended for adult use only.
- This device is intended for non-invasive measuring and monitoring of arterial blood pressure. It is not intended for use on body extremities other than the wrist. • Its sole function is blood pressure measurement.
- Monitoring blood pressure with this device does not equate to a medical diagnosis.
- This device allows you to monitor your blood pressure under the care of a physician.
- If you are taking medication, consult with your physician to determine the most appropriate time for your measurement. Never change a prescribed medication without your physician's consent.
- This device is not suitable for continuous monitoring during medical emergencies or operations.
- If the pressure of the cuff exceeds 40 kPa (300 mmHg), the device will automatically deflate. Should the cuff not deflate when its pressure exceeds 40 kPa (300 mmHg), detach the cuff from the wrist and press START/STOP to stop inflation.
- Do not use the monitor under the conditions of strong electromagnetic field (e.g. medical radio frequency equipment) that radiates interference signal or electrical fast transient/burst signal.
- The device is not AP/APG equipment. It is not suitable for use in the presence of flammable gases (avoid oxygen, nitrous oxide).
- Keep the unit out of reach of infants or children. Inhalation or swallowing of the device's small pieces is dangerous or even fatal.
- Use only accessories and detachable parts specified and authorized by the manufacturer. Not doing so may cause damage to the unit or danger to you.



SAFETY INFORMATION

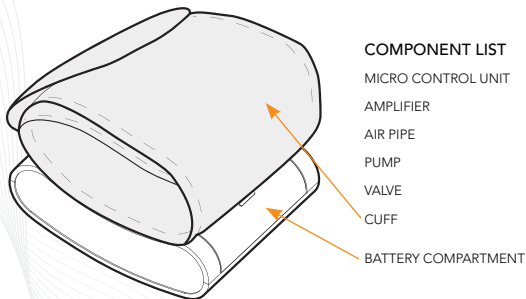
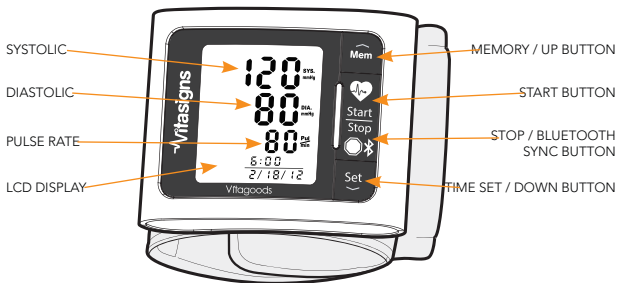
THE FOLLOWING SYMBOLS, DEFINED BELOW ARE FOUND ON YOUR PRODUCT AND IN THIS USER MANUAL. THEY ARE REQUIRED AND STANDARD FOR USE.

	This part of the Operation Guide Must be Read		Indicates Type B Applied Parts
CE 0123	Indicates compliance with MDD 93/42/ECC Requirements		ENVIRONMENT PROTECTION Electronic products should not be disposed of with household waste. Please recycle.
	Represents the Manufacturer		Indicates Direct Current
SN	Indicates the Serial Number		

DISPLAY AND INDICATORS

SYMBOL	DESCRIPTION	DEFINITION
SYS.	Systolic Blood Pressure	High Pressure Result
DIA.	Diastolic Pressure	Low Pressure Result
Pul/min	Pulse per Minute, BPM	Beats per minute
	Low Battery	Batteries are low and need to be replaced
mmHg	mmHg	Measurement Unit of Blood Pressure (1mmHg=0.133kPa)
IHB	IHB Indicator	Irregular Heartbeat Detector
	Bluetooth	Bluetooth Indicator
ERROR	Error	Indicates and error in measurement, usually a result of movement
MEMORY REVIEW	Memory	Recalling the historic records
18:88 PM 18/88/88	Time	Hour:Minute (Month/Day/Year)

FEATURES AND COMPONENTS



PRODUCT INCLUDES

- 1 - VS-4300 VITASIGNS BLOOD PRESSURE MONITOR
- 2 - AAA SIZE BATTERIES
- 1 - USER MANUAL

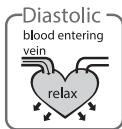
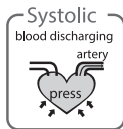
ABOUT BLOOD PRESSURE

Measuring your own blood pressure is an important way of monitoring your health. High blood pressure (hypertension) is a major health problem, which can be treated effectively once detected. Measuring your own blood pressure between doctor visits on a regular basis and keeping accurate records helps monitor any significant changes in blood pressure.

SYSTOLIC PRESSURE AND DIASTOLIC PRESSURE

When ventricles contract and pump blood out of the heart, the blood pressure reaches its maximum value in the cycle, **systolic pressure**.

When the ventricles relax, the blood pressure reaches its minimum value in the cycle, which is called **diastolic pressure**.



STANDARD BLOOD PRESSURE CLASSIFICATION

Blood Pressure Category	Systolic mm Hg (upper #)		Diastolic mm Hg (lower #)
Normal	less than 120	and	less than 80
Pr-hypertensive	120-139	or	80-89
High Blood Pressure	140-159	or	90-99
High Blood Pressure	160 or higher	or	100 or higher
Hypertensive Crisis	Higher than 180	or	Higher than 110

This chart is the standard blood pressure classification published by American Heart Association (AHA).

AHA Home Guideline for upper limit of normal blood pressure:

SYS

135 mm Hg

DIA

85 mm Hg



CAUTION

Please contact your physician if your measurement results are outside of the normal range. Only a physician can tell you whether your blood pressure value has reached a dangerous point.

BLOOD PRESSURE FLUCTUATIONS

Why does my blood pressure measurement change within a one-day period?

- Individual blood pressure varies throughout the day. Measurements are also affected by the way you fasten your cuff and your measurement position. Try to daily take measurements at the same time and in the same condition.
- Individuals who take medication are more prone to variation in blood pressure.
- To ensure the most accurate measurements, wait at least five (5) minutes before conducting another.

HOSPITAL VERSUS HOME READINGS

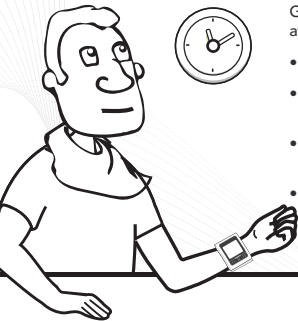
Why does my blood pressure measurement in a hospital differ from home?

Blood pressure variations are common. Measurements are different during a 24-hour period due to both internal (exercise, stress, etc.) and external (weather, etc.) conditions.

WRIST CHOICE

Is the result the same if I measure on my right wrist instead of my left wrist?

You should try to use your left wrist but can use your right wrist. Reading results between both wrists tend to be random, but the difference is usually not significant.

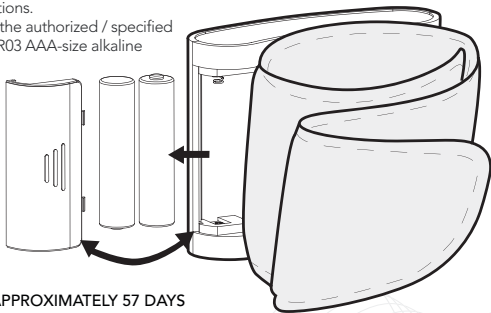


Guidelines to measure your blood pressure at home:

- Fasten the cuff securely on your wrist.
- Make sure the cuff is not too tight or too loose.
- Avoid use if pressure on your body gives you anxiety.
- Take three deep breaths before beginning the measurement.

INSTALLING AND REPLACING THE BATTERIES

1. Open the Battery Door
2. Insert the batteries according to the polarity indications.
(Always select the authorized / specified battery: Two LR03 AAA-size alkaline batteries).
3. Close the battery door.



BATTERY LIFE: APPROXIMATELY 57 DAYS

(Battery capacity: 600 mAh. If blood pressure is measured 3 times per day (each measurement taking 30 seconds), and the unit's memory is checked once per day (memory check lasting for 60 seconds).

The current used during measurement is 350 mA. The current used while displaying records is 50 mA. While the unit is shut down the current 25 uA.)

REPLACE THE BATTERIES UNDER THE FOLLOWING CIRCUMSTANCES

 + Lo displays on the LCD

- The LCD display dims
- When powering the monitor on, the LCD does not light up

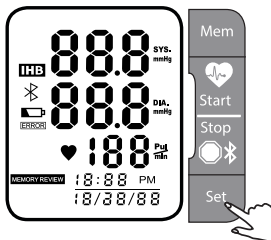


SAFETY INFORMATION

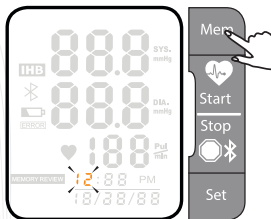
- Remove the batteries if the device is not likely to be used for some time.
- Worn out batteries are harmful to the environment. Do not dispose of them with daily garbage, please recycle.
- Remove the old batteries from the device following your local recycling guidelines.

SETTING DATE, TIME & MEASUREMENT UNITS

PLEASE SET THE TIME ON YOUR DEVICE BEFORE YOU USE IT. HAVING THE CORRECT TIME SET ENSURES THAT EACH RECORD IS LABELED WITH THE CORRECT TIME STAMP (YEAR RANGE: 2012-2052; TIME FORMAT: 12 HOURS).

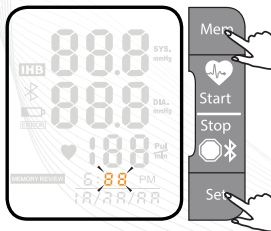


1. When the monitor is OFF, press and hold the "SET" button for 2 seconds to enter "Time Setting" mode.



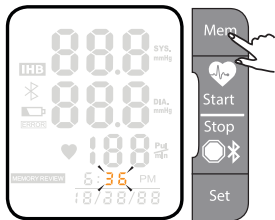
2. As pictured on the left, the numeral "12" will begin blinking, representing [HOUR].

Press "MEM" button to change the numeral. Each press will increase the numeral by one.

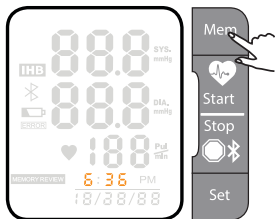


3. Press the "SET" button again to confirm the [HOUR] selection.

Then the numeral representing the [MINUTE] will begin blinking.



4. Repeat steps 2 and 3 to confirm the selection of the [MINUTE].



5. Repeat steps 2 and 3 to confirm the [MONTH], [DAY] and [YEAR].



6. After confirming the [YEAR], the LCD will display "dONE" and the monitor will shut off automatically.



Downloading the App

This Life Report System device works with the iPhone, iPad, or iPod touch.

1. Please confirm your iPhone, iPad, or iPod touch model is listed as a compatible model.



iPod touch 5
iOS 5 or i



iPhone 4S
iOS 5 or iOS 6



iPhone 5
iOS 5 or iOS 6



iPad mini
iOS 5 or iO



iPad 3 and 4
iOS 5 or iOS

2. Prior to data management between the devices, you must first download the Vitasigns App. It is available from the App Store as a free download.
3. Install the Vitasigns App on your mobile device. The Life Report System device indicates "Application Not Installed" if the Vitasigns App cannot be found.

Pairing Devices (if pairing with Vitasigns App)

1. Turn on the Bluetooth option and open the Vitasigns App on your iPhone, iPad, or iPod touch.
2. When the monitor is off, press and hold START/STOP button for two (2) seconds initiate the pairing. The symbol (00) and the symbol (00) appear on the LCD alternatively, indicating that pairing is proceeding.
If SUCCEED, (E1) symbol appears on the LCD.
If FAILED, (E1) symbol appears on the LCD.
3. The monitor shuts off automatically after pairing process is complete.



Keep track of all your vital signs!
Download the Vitasigns App to sync your favorite Vitasigns body monitoring products. Set goals, stick to targets and monitor general vitality with this easy-to-use App. Available free from iTunes or our website www.vitasigns.com/app
Also available in this range:



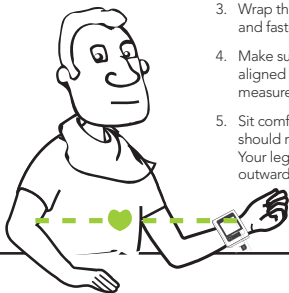
Bluetooth
Digital Body Analyzer Scale
VS-3200-B



Bluetooth Desktop
Blood Pressure Monitor
VS-4000

POSITIONING THE CUFF

1. Remove your watch and/or jewelry from your left hand. (If your physician has diagnosed you with poor circulation in your left wrist, use your right wrist.)
2. If applicable, roll or push up your sleeve to expose your skin.



3. Wrap the cuff around your wrist, palm facing up, and fasten.
4. Make sure the cuff is firmly against your skin and aligned to the center. (If the cuff is too loose, the measurement will not be accurate.)
5. Sit comfortably on a chair. The center of the cuff should remain at the same level as your heart. Your legs should be relaxed with the feet falling outwards.

TIPS FOR MEASUREMENT

Do not take a measurement under any of the following circumstances, inaccuracies may result.



Eating or drinking within one hour prior to measurement



Wait at least 20 minutes after taking a bath



In a very cold environment



Immediate measurement after tea, coffee, smoking

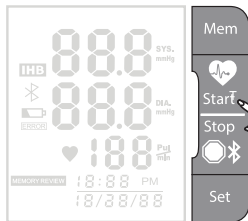


When talking or moving your fingers

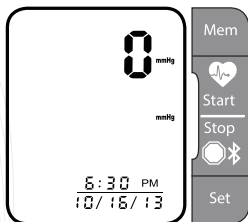


If you need to use the restroom

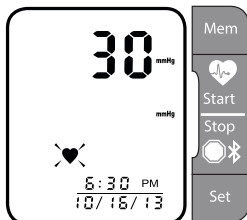
TAKING MEASUREMENTS



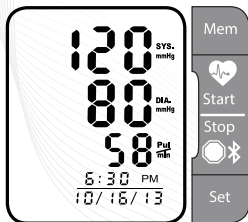
1. After correctly positioning the cuff, press START button to turn on the monitor. The measurement process will automatically.



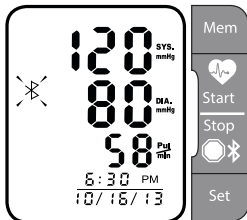
1a. Adjust to Zero



1b. Inflating and Measuring

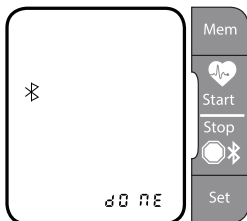


- 1c. Display and Save the Measuring Result

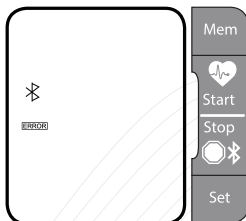


2. The device will proceed to transmit the data automatically after the measurement.

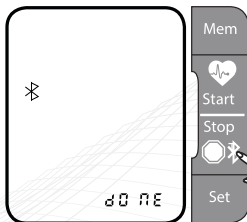
The Bluetooth symbol will blink during transmission.



- 3a. If the data is successfully transmitted, the LCD will display as pictured above.



- 3b. If the data transmission fails, the LCD will display "ERROR" as pictured above.



4. Press the STOP button to turn off the monitor.
The device will power off automatically if you miss this step.

The mobile or portable equipment, equipped with Bluetooth functionality in line with BLE Technical Specifications as well as BLP Protocol established by the global organization Bluetooth SIG, are capable to receive the health data, including measurement time, systolic pressure, diastolic pressure, etc.

RECALLING THE RECORDS



1. Press the "Mem" button to access the devices memory.



2. Press the "Mem" button to scroll forward through the records and the "Set" button to scroll backward.



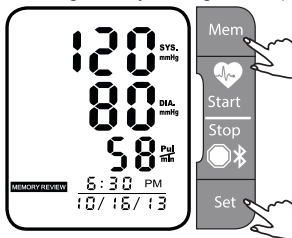
CAUTION

The most recent record (1) is shown first. Each new measurement is assigned to the first (1) record. All other records are pushed back one digit (e.g., 2 becomes 3, and so on), and the last record (60) is dropped from the list.

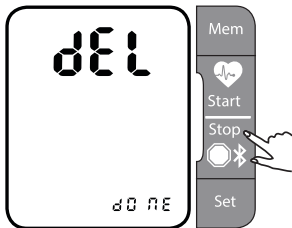


DELETING THE RECORDS

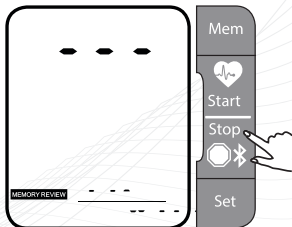
When you did not obtain the accurate measurement, you can clear all the measuring results by following below steps.



1. Under Memory Recalling Mode, press and hold both the "MEM" button and the "SET" button for 3 seconds.



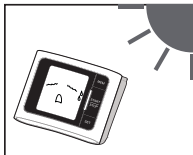
2. The LCD will display "dEL dONE", indicating that memory clearing is complete.
3. If you wish to give up clearing memory, press "STOP" to turn off the monitor.



4. When there are no records in the monitor's memory if you press the "MEM" button to look up history, the LCD will display as pictured on the left.

MAINTENANCE

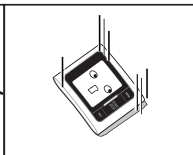
To obtain the best performance, please follow the instructions below.



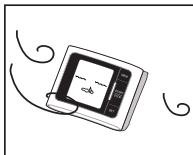
Put in a dry place and avoid the sunshine



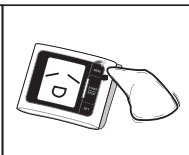
Avoid immersing it in the water.
Clean it with a dry cloth in case



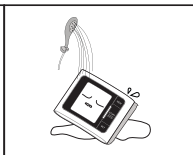
Avoid shaking and collision.



Avoid dusty environment and unstable temperature surrounding



Use the slightly damp cloth to remove the dirt.



Avoid washing the cuff

CLEANING

Dusty environments may affect the performance of the unit. Use a soft cloth to remove dust before and after use. Please make sure the unit functions safely and it is in proper working conditions before use.

Please follow the instructions for correct replacement of interchangeable or detachable parts specified by SERVICE PERSONNEL of MANUFACTURER as "replaceable".

DISPOSAL

Degraded sensors may result in inaccurate measurement while loosened electrodes may cause the monitor to fail to power on. Please dispose of ACCESSORIES, detachable parts, and EQUIPMENT according to local guidelines.

WARRANTY

Vitagoods warrants device to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof. Vitagoods warrants the device under normal use for a period of one (1) years from the date of retail purchase.

WHAT IS COVERED:

The Vitagoods warranty covers new products if a defect in material or workmanship occurs and a valid claim is received by Vitagoods within the Warranty Period. At its option, Vitagoods will either (1) repair the product at no charge using new or refurbished replacement parts or (2) exchange the product with a product that is new or has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in Vitagoods current inventory, or (3) refund the original purchase price of the product.

Vitagoods warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Vitagoods' property. When a refund is given, your product becomes Vitagoods' property.

Note: *Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.*


This Limited Warranty does not cover:

- Shipping charges to return defective product to Vitagoods.
- Product repair and/or part replacement because of improper use or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images, or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of Vitagoods.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning device to Vitagoods.
- A device that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A device used for commercial or institutional purposes (including but not limited to rental purposes).
- A device lost in shipment and no signature verification receipt can be provided.
- Failure to operate per User Manuel.

Register your device online at www.vitagoods.com to ensure warranty confirmation.

TROUBLESHOOTING

This section includes a list of error messages and frequently asked questions for problems you may encounter with your blood pressure monitor. If the device is not operating properly, check here before arranging for service.

PROBLEM	SYMPTOM	CHECK THIS	REMEDY
No Power	Display is dim or will not light up.	Batteries are exhausted	Replace with new batteries
		Batteries are inserted incorrectly	Insert batteries correctly
Low Batteries	 Shown on the display	Low Battery	Replace with new batteries
Error Message	E1 Shows	Data communication has failed	make sure your smart-phone's Bluetooth is turned on and in range
	E2 Shows	The cuff is very tight	Refasten the cuff and then measure again
	E3 Shows	The pressure of the cuff is excess	Relax for a moment and then measure again
	EF or E6 Shows	System Error	Turn off the monitor and then turn it on again
	E10 or E11 Shows	The monitor detected motion while measuring.	Movement can affect the measurement. Relax then measure again.
	E20 Shows	The measurement process does not detect the pulse signal.	Loosen clothing on the arm and then measure again.
	E21 Shows	Measure incorrectly	Relax for a moment and then measure again



SPECIFICATIONS

Power supply	2*AAA alkaline batteries
Display mode	Digital LCD V.A.36x41 mm
Measurement mode	Oscillographic testing moder
Measurement range	Pressure: 0kpa - 40kpa (0mmHg-300mmHg) Pulse value: 40 - 199 beats / minute
Accuracy	Pressure: 41°F - 104°F within ± 0.4 kpa (3mmHg) 32°F - 113°F (out of 41°F - 104°F) within ± 0.7 kpa (5mmHg) pulse value $\pm 5\%$
Normal working condition	Temperature: 41°F - 104°F Relative humidity $\leq 80\%$ Atmospheric pressure: 86kPa to 106kPa
Storage & transportation condition	Temperature: -4°F - 140°F Relative Humidity: 10% to 93% RH
Measurement perimeter of the wrist	Approximately 5" - 8.5"
Weight	Approximately 4 Ounces (120 grams) excluding dry cells
External dimensions	Approximately 3.14"x 2.5" x 1" (80mmx65mmx22mm)
Attachment	2*AAA alkaline batteries; user manuel
Mode of operation	Continuous operation
Degree of protection	Type B applied part
Protection against ingress of water	IPX0
Software version	V01
Device classification	Internally powered ME Equipment

FCC STATEMENT

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for U.S.A. only)

This product 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. The product 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 the product does cause harmful interference to radio or television reception, which can be determined by turning the product on and off, 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 product and the receiver.
- Connect the product 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.



COMPILED EUROPEAN STANDARDS LIST

Risk Management	EN/ISO 14971:2007
Labeling	EN 980:2008
User Manuel	EN 1041:2008
General Requirements for Safety	EN 60601-1:2006/AC:2010 EN 62304:2006/AC:2008 EN 60601-1-6:2010 EN 60601-1-11:2010
Non-invasive Sphygmomanometers General Requirements	EN 1060-1:1995+A2:2009 EN 1060-3:1997+A2:2009 EN 1060-4:2004
Electromagnetic Compatibility	EN 60601-1-2:2007/AC:2010

EMC GUIDANCE

Table 1

Guidance and manufacturer's declaration – electromagnetic emissions for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration - electromagnetic emission		
The VS-4300 is intended for use in the electromagnetic environment specified below. The user of the monitor VS-4300 should assure that it is used in such an environment.		
RF Emissions CISPR 11	Group 1	The VS-4300 must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected
RF Emissions CISPR 11	Class B	
Harmonic Emissions IEC 61000-3-2	Not Applicable	
Voltage Fluctuations / Flicker Emissions IEC 61000-3-3	Not Applicable	



Table 2

Guidance and manufacturer's declaration – electromagnetic immunity – for all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration - electromagnetic immunity			
The VS-4300 is intended for use in the electromagnetic environment specified below. The user of the VS-4300 should assure that it is used in such an environment.			
Immunity Test	IEC 6060 1 Test Level	Compliance Level	Electromagnetic environment - guidance
Electrostatic discharge (ES D) 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 / burst IEC 61000-4-4	±2 kV for power supply lines	N/A	
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	N/A	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in the U_T) for 0.5 cycles	N/A	
	40% U_T (60% dip in the U_T) for 5 cycles	N/A	
	70% U_T (30% dip in the U_T) for 25 cycles	N/A	
	<5% U_T (>95% dip in the U_T) for 5 cycles	N/A	
Power Frequency (50Hz) 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_T is the a.c. mains voltage prior to application of the test level			

Table 3

Guidance and manufacturer's declaration – electromagnetic immunity –for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING


Guidance and manufacturer's declaration - electromagnetic immunity			
The VS-4300 is intended for use in the electromagnetic environment specified below. The user of the VS-4300 should assure that it is used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the VS-4300, including cable, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	<p>Recommended separation distance</p> $d = 1.167 \sqrt{P}$ $d = 1.167 \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2.333 \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>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 meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey. Should^a be less than the compliance level in each frequency range.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol</p> 
<p>Note 1 - At 80 MHz and 800 MHz the higher frequency range applies.</p> <p>Note 2 - These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
<p>^a Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast 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 VS-4300 is used exceeds the applicable RF compliance level above, the VS-4300 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the VS-4300.</p>			
<p>^b Over the frequency range 150 kHz to 80 MHz, field strengths be less than 3V/m</p>			

Table 4

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM –for ME EQUIPMENT or ME SYSTEM that are not LIFE-SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment at the VS-4300			
The VS-4300 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the VS-4300 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the VS-4300 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (W)	Separation distance according to the frequency of transmitter (m)		
	150 kHz to 80 MHz $d = 1.167 \sqrt{P}$	80 MHz to 800 MHz $d = 1.167 \sqrt{P}$	800 MHz to 2.5 GHz $d = 2.333 \sqrt{P}$
0.01	N/A	0.117	0.233
0.1	N/A	0.369	0.738
1	N/A	1.167	2.333
10	N/A	3.690	7.377
100	N/A	11.67	23.33
For transmitters rated at a maximum output not listed above, the recommended separation distance “d” in meters (m) can be determined using the equation applicable to the frequency of the transmitter, where “P” is the maximum output rating of the transmitter in watts (W) according to the transmitter manufacturer.			
Note 1 At 80 MHz and 800 MHz, the separation distance for 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.			

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Power	2 x AAA-size Battery
Display Mode	Digital LCD, V.A. = 41mm x 36mm
Measurement Mode	Oscillographic Testing Mode
Measurement Range	Pressure: 0-40 kPa (0-300 mm Hg) Pulse Value: 40-199 Beat/Minute
Accuracy	5°C-40°C within ± 0.4 kPa (3 mm Hg) 0°C-45°C (out of 5°C-40°C) within ± 0.7 kPa (5 mm Hg); Pulse Value: $\pm 5\%$
Measurement Perimeter of the wrist	about 13.5cm to 21.5cm
Operation Environment	5°C to 40 °C / $\leq 85\%$ RH
Operating & Storage Atmospheric Pressure	86 kPa to 106 kPa
Storage Temperature/Humidity	-20°C to 60°C / 10% to 93%RH

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