

Withings Blood Pressure Monitor

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Disclaimer

Information in this guide may change without notice. The manufacturer assumes no responsibilities for errors that may appear in this guide.

Reference to Standards

This device complies with the following normative documents :

- COUNCIL DIRECTIVE 93/42/EEC of 14 June 1993 concerning medical devices as amended by Directive 2007/47/EC
- * EN ISO 13485:2003 /AC: 2009:Medical devices - Quality management systems – Requirements for regulatory purposes (ISO 13485:2003) Reference to standards contd.
- * EN ISO14971:2012: Medical devices - Application of risk management to medical devices (ISO 14971:2007, Corrected version 2007-10-01)
- * IEC60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007); EN 60601-1:2006+AC (2010) : Medical electrical equipment - Part 1:General requirements for basic safety and essential Performance
- * EN1060-3:1997+A1:2005+A2:2009: Non-invasive sphygmomanometers,Part 3: Supplementary requirements for electromechanical blood pressure measuring systems
- * EN1060-4: 2004 Non-invasive sphygmomanometers. Test procedures to determine the overall system accuracy of automated non-invasive sphygmomanometers.
- *IEC/EN 60601-1-11 : General requirements for basic safety and essential performance –Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
- *IEC 80601-2-30: 2009 (First Edition) for use in conjunction with IEC 60601-1:2005
EN 80601-2-30: 2010/ ANSI/AAMI 80601-2-30: 2009 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
- *EN300328 V1.8.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- *EN301489-1-3 V1.9.2 (2011) Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- *EN301489-1-17 V2.2.1(2012) Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- *EN60601-1-2: 2007 CISPR: 2011: Medical electrical equipment: Part 1-2: General requirements for basic safety and essential performance-collateral standard electromagnetic compatibility
- *EN 55011:2009/A1:2010 : Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- *FCC part B 15B: 2013 Electromagnetic Compatibility
FCC Rule Part: 15.247 Cat: DSS (Bluetooth) FCC Rule Part: 15.247 Cat: DTS (BT4.0)
- *EN ISO 10993-1:2009 Biological evaluation of medical devices-Part 1: Evaluation and testing within a risk management process (ISO 10993-1:2009)
- * ANSI/AAMI SP10: 2002/A1 2003(R) 2008: Manual, electronic or automated sphygmomanometers
- * ANSI/AAMI/ISO 81060-2:2009 Non-invasive sphygmomanometers Part 2: Clinical validation of automated measurement type

 Type BF Applied Part (cuff)   0434  <i>Read this manual before use.</i>  WEEE <p>IP22 Ingress of water or particulate matter FCC ID : XNAWPM02</p>	 YA HORNG ELECTRONIC CO., LTD. ATTEN ELECTRONIC (DONGGUAN) CO., LTD. 188 industrial district, Ping Shan Administrative District Tang Shia Town, Dongguan, Guangdong, China  2013 US Importer : Withings Inc. 16192 Coastal Highway Lewes DE 19  EU REPRESENTATIVE Kahl Handelsvertretung Add.: Isarstr.33 40699 Erkrath, Germany Tel: +49 21 0447 754 Withings SAS 20 bis rue Rouget de Lisle 92130 Issy-les-Moulineaux
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In order to use your Withings Blood Pressure Monitor, you need an iPhone, iPad, iPod touch (iOS 5 and higher) or Android (v2.3.3 and higher)



Package content

- Withings Blood Pressure Monitor
- Four AAA alkaline (LR3) cells (already inserted)
- Micro-USB to USB adapter
- User manual



Important Safety Information

Consult your doctor during pregnancy, arrhythmia and arteriosclerosis. Please read this section carefully before using the blood pressure monitor.

Intended use

The device is a digital monitor intended for use in measuring blood pressure and pulse rate in adult patient population with arm circumference ranging from 9 inches to 17 inches (22cm- 42cm). This device is not intended to be a diagnostic device. Contact your physician if hypertensive values are indicated.

General safety and precautions

- Do not forcibly bend the arm cuff
- Do not inflate the arm cuff when it is not wrapped around your arm
- Do not apply strong shocks and vibrations to the blood pressure monitor or drop it
- Do not take measurement after bathing, drinking alcohol, smoking, exercising or eating.
- Do not immerse the arm cuff in water



Caution

General usage

Always consult your doctor. Self-diagnosis of measurement results and self treatment are dangerous. People with severe blood flow problems, or blood disorders, should consult a doctor before using the blood pressure monitor. Cuff inflation can cause internal bleeding. Operational factors such as common arrhythmias, ventricular premature beats, atrial fibrillation, arterial sclerosis, poor perfusion, diabetes, age, pregnancy, pre-eclampsia or renal disease can affect the performance of the automated sphygmomanometer and/or its blood pressure reading. This device is a precision measuring equipment liable to be understood by lay user but it still should be handled with care. A long exposure of the device to lint, dust or sunlight might reduce its life time or damage it. Damaged cuff or sensor might lead to incorrect measurements.

- Do not leave the blood pressure monitor unattended with infants or persons who cannot express their consent.
- Do not use the blood pressure monitor for any purpose other than measuring blood pressure.
- Do not disassemble the blood pressure monitor.
- Do not operate the blood pressure monitor in a moving vehicle (car, airplane)
- Do not use a cellular phone near the device. It may result in an operational failure.
- Improper continuous pressure of cuff or too frequent measurements may interfere blood flow and result harmful injury to the users.
- Do not apply the cuff over the users' arm bearing a wound or medical treatment and so on, as this can cause further influence on the therapy.

AAA alkaline cells usage

- If AAA alkaline cells fluid should get in your eyes, immediately rinse with plenty of clean water and consult a doctor immediately.
- Use only four AAA alkaline cells with this blood pressure monitor. Do not use any other types of AAA alkaline cells.
- Do not insert AAA alkaline cells with their polarities incorrectly aligned.
- Replace old AAA alkaline cells with new ones immediately. Replace all four AAA alkaline cells at the same time.
- Do not use new and used AAA alkaline cells together

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About Blood Pressure

What is blood pressure ?

Blood pressure (BP) is the pressure exerted by circulating blood upon the walls of blood vessels, and is one of the principal vital signs. During each heartbeat, BP varies between a maximum (systolic) and a minimum (diastolic) pressure. The mean BP, due to pumping by the heart and resistance to flow in blood vessels, decreases as the circulating blood moves away from the heart through arteries.

For more informations about blood pressure, please consult our website :

www.withings.com/bloodpressure

How to measure your blood pressure correctly

Before taking a reading, you should sit still for around 10 minutes, and you should wait 1 minute between each reading.

While taking a measurement, remain sitted and stay calm and relaxed. You should also try not to talk.

This should improve the accuracy of readings.

It is recommended to always measure your blood pressure on the same arm.

Correct posture

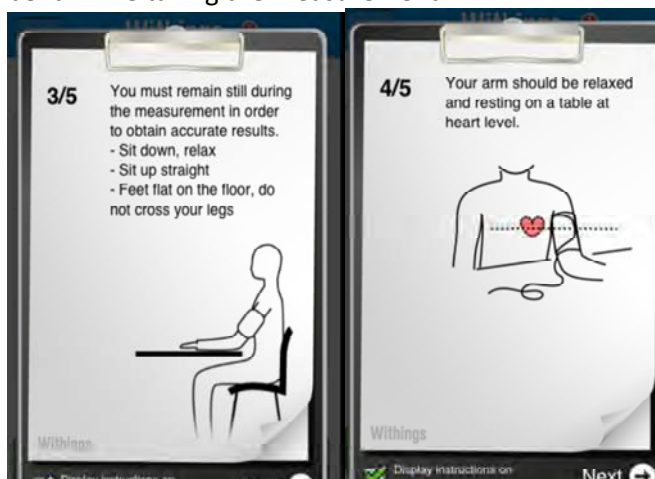
Rest your arm on a table and relax your arm.

Correct cuff placement

Put the cuff around your arm with the tube positioned on the inner side of your arm, around 2cm above the elbow. Wrap the arm cuff snugly. The metal sheet must be aligned with the arterial vein when wrapping the cuff on the arm.

Correct level

Make sure the cuff is at the same level than your heart. If you can not place your arm at the same level than your heart, use a cushion. Your arm should lightly bend while taking the measurement.



Installation

Alkaline cells are already inserted in your Withings Blood Pressure Monitor when you buy it.

Replacing the « AAA » alkaline cells

If the low battery symbol appears in the Withings application, replace all four AAA alkaline cells at the same time.

1. Remove the AAA alkaline cells cover at the lower end of the aluminum tube.
2. Install or replace four AAA alkaline cells so that the + (positive) and – (negative) polarities match the polarities indicated on the AAA alkaline cells compartment.
3. Put the AAA alkaline cells cover back in place. If the device will not be used for a long period of time, it is advised to remove the alkaline cells.

First use

Use your blood pressure monitor wirelessly on iOS

1. Press the button on top of the blood pressure monitor to turn it on
2. On your iOS device, go to « Settings », enter the « Bluetooth » section and turn Bluetooth on
3. In the devices list, choose Withings BPM
4. The device status will change to « connected » and a pop-up will bring you to the Withings application on the App Store
5. Download the Withings Health Mate application for the App Store and open it

Use your blood pressure monitor wirelessly on Android

1. Press the button on top of the blood pressure monitor to turn it on
2. On your Android device, go to « Settings », enter the « Bluetooth » section and turn Bluetooth on
3. In the devices list, choose Withings BPM
4. The device status will change to « connected »
5. Download the Withings Health Mate application for the Play Store and open it

Use your blood pressure monitor with your smartphone cable on iOS

1. Plug the smartphone USB adapter provided with your blood pressure monitor to it
2. Plug your smartphone cable to the adapter and your iOS device
3. Press the button on top of the blood pressure monitor to turn it on
4. A pop-up will ask you to download the Withings Health Mate application on the App Store
5. Download the Withings Health Mate application for the App Store and open it

Use your blood pressure monitor with your smartphone cable on Android

1. Plug the smartphone USB adapter provided with your blood pressure monitor to it
2. Plug your smartphone cable to the adapter and your Android device
3. Press the button on top of the blood pressure monitor to turn it on
4. Download the Withings Health Mate application for the App Store and open it

How to Measure your blood pressure

Wirelessly on iOS

1. Unlock your iOS device
2. Press the button on top of the blood pressure monitor to turn it on
3. After a few seconds, the Withings Health Mate application will open
4. *Navigate through the quickstart instructions by touching « next » until you reach the measurement screen (fig. 1)*

Wirelessly on Android

1. Unlock your Android device
2. Press the button on top of the blood pressure monitor to turn it on
3. After a few seconds, the Withings Health Mate application will open
4. *Navigate through the quickstart instructions by touching « next » until you reach the measurement screen (fig. 1)*

Using your cable on iOS

1. Unlock your iOS device
2. Press the button on top of the blood pressure monitor to turn it on
3. After a few seconds, the Withings Health Mate application will open
4. *Navigate through the quickstart instructions by touching « next » until you reach the measurement screen (fig. 1)*

Using your cable on Android

1. Unlock your Android device
2. Press the button on top of the blood pressure monitor to turn it on
3. After a few seconds, the Withings Health Mate application will open
4. *Navigate through the quickstart instructions by touching « next » until you reach the measurement screen (fig. 1)*

Begin to measure, take and store a reading

1. On the measurement screen (fig. 1), touch the «start» button to launch the measurement. The blood pressure monitor is designed to take measurements and store the measurement values in the memory of the device (iPhone, iPad or iPod Touch).



Fig. 1

Using the single mode

- On the measurement screen (fig. 1) press the «Start» button. The cuff starts to inflate automatically. As the cuff inflates, the blood pressure monitor automatically determines your ideal inflation level. This blood pressure monitor detects the pulse during inflation. Do not move your arm and remain still until the entire measurement process is completed.

Note : To stop the inflation or measurement, touch «Stop» button or push the device on top of the tube. The blood pressure monitor will stop inflating and start deflating.

- Inflation stops and the measurement is stopped. As the cuff deflates, the heartbeat symbol flashes at every heartbeat.
- When the measurement is complete, the arm cuff completely deflates. Your blood pressure and pulse rate are displayed.
- Press «OK » to see your results in advanced mode. Rotate your device to display your graphs.

Note : Self-diagnosis of measured results and treatment are dangerous. Please follow the instructions of your doctor.

Using the auto mode

The auto mode will take three measurements separated by an interval of time in order to calculate a precise average of your blood pressure.

- On the measurement screen (fig. 2), touch the preferences icon . Make certain the auto mode is enabled. Select the interval, between each measurement.
- Press the « Start » button. The cuff starts to inflate automatically. As the cuff inflates (fig. 6), the blood pressure monitor automatically determines your ideal inflation level. This blood pressure monitor detects the pulse during inflation. Do not move your arm and remain still until the entire measurement process is completed.

Note : To stop the inflation or measurement, press and release the « Stop » button. The blood pressure monitor will stop inflating and start deflating.

- Inflation stops and the measurement is started. As the cuff deflates, the heartbeat symbol flashes at every heartbeat.
- When the measurement is complete, the arm cuff completely deflates.
- After the selected interval, a second and a third measurement will start.
- Your average blood pressure is displayed.
- Press « OK » at the end of a measurement to see your results in advanced mode. Rotate your device to display your graphs.

Notes

- *The three individual measurement results are not displayed while auto mode is taking the measurements.*
- *Self-diagnosis of measured results and treatment are dangerous. Please follow the instructions of your doctor.*
- *You will have to activate the auto mode each time you want to use it.*



Fig. 2

After Use

Cleaning

- Do not use an alcoholic-base or solvent agent to clean the device.
- Clean the device with a soft, dry cloth.
- The dirt on the cuff can be cleaned by a moisten cloth and soap .
- Do not flush the device and cuff with much water
- Do not dismantle the device or disconnect the cuff or try to repair by yourself. If any problem happens, refer to the distributor.
- Do not operate the device under severe environment of extreme temperature or humidity, or direct sunshine.
- Do not shake the unit violently.
- Do not submerge the device or any of the components in water.
- Do not let the device under strong shocks, such as dropping the unit on the floor

Storage

- If you are not using the device for an extended period, remove the alkaline cells from the aluminium tube for storage.
- Store the device and the components in a clean, safe location

Maintenance

If you can't fix the problems using the troubleshooting instructions , request service from your dealer. Manufacturer will make available on requested circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist manufacturer's staff or authorized representative for repair. It is generally recommended to have the device inspected every 2 years, to ensure proper functioning and accuracy.

Error Messages

Error message	Causes	Countermeasure
Measurement could not be performed. Please try again. If the problem occurs again, please contact customer service.	Hardware auto-check error.	1- Measurement could not be performed. Please try again. If the problem occurs again, please contact customer service.
Connection error. Quit the application and reconnect your blood pressure monitor.	Communication error between the Blood Pressure Monitor and the collateral device.	1- Push the blood pressure monitor button for 3 seconds to turn it off. Quit the application and push the blood pressure monitor button to turn it on. 2- If the problem occurs again, please contact customer service.
Please wait until the cuff is totally deflated before starting a new measurement. Stay still during measurement.	<ul style="list-style-type: none"> - Cuff is not deflated before measurement. - Noise interference. - Excessive user movements. 	1- Please wait until the cuff is totally deflated before starting a new measurement. Stay still during measurement. 2- If the problem occurs again, please contact customer service.
Check that the Blood Pressure Monitor is correctly positioned on your arm and that measurement is performed in good conditions.	<ul style="list-style-type: none"> - User movement, or not relaxed, or talking ... - Cuff is not correctly fastened - Cuff broken - Pump or valve failure - Pressure overflow - Noise interference - User movement, or not relaxed, or talking ... - User special characteristics - Battery level is too low 	1- Check that the Blood Pressure Monitor is correctly positioned on your arm and that measurement is performed in good conditions. 2- Low battery level. Unplug the Blood Pressure Monitor. Replace the alkaline cells. 3- If user has special characteristics, please contact your physician. 4- If the problem occurs again, please contact customer service.
Low battery level. Unplug the Blood Pressure Monitor. Replace the alkaline cells.	Battery level is too low.	1- Low battery level. Unplug the Blood Pressure Monitor. Replace the alkaline cells. 2- If the problem occurs again, please contact customer service.

Troubleshooting

Problem	Remedy
Though the batteries are installed, there is nothing happening when connected to iOS or Android device	<ol style="list-style-type: none"> 1. Check that your iOS or Android device is unlocked 2. Check and correct the AAA alkaline cells polarities 3. Remove the AAA alkaline cells and wait for one minute. Then install the AAA alkaline cells back. 4. Replace the AAA alkaline cells
The inflation action cannot be done or the air pressure cannot rise	<ol style="list-style-type: none"> 1. Check the cuff position and fasten the cuff correctly and re-measure the pressure again 2. Check the blood pressure monitor connection to the iOS device
The low battery icon is shown in the application	Replace the old alkaline cells by four new AAA alkaline cells.
The blood pressure cannot be taken and the application shows an error message or wrong result	<ol style="list-style-type: none"> 1. Re-fasten the cuff 2. Relax yourself and sit down 3. Keep the cuff and heart at the same level during the measurement period 4. Keep silent and still during measurement 5. If the patient has severe heart beat problem, then the blood pressure may not be read correctly
Under normal measuring circumstance, the reading at home is different from that of the clinics or each measurement has various reading	<ol style="list-style-type: none"> 1. The variation is due to the different environments 2. The blood pressure is changing according to the physiological or psychological status of the human body 3. Show your recorded values to your physician

FCC Statement

Federal Communications Commission (FCC) Statement 15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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.

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 of the device.

FCC RF Radiation Exposure Statement:


This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF Statement

-Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the following.



- Interference may occur in the vicinity of equipment marked with 
- Portable and mobile RF communication equipment (e.g. cell phones) can affect Medical Electrical Equipment.
- The use of accessories and cables other than those specified may result in increased emissions or decreased immunity.
- 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.
- 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.
- Portable and mobile RF communications 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.
- The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Any other accessories, transducers and cables may result in increased emissions or decreased immunity and EMC performance.
- The device should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, which should be observed to verify normal operation in the configuration in which it will be used.

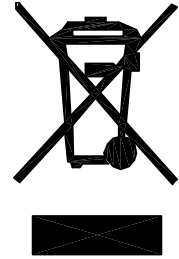
Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the following. Portable and mobile RF communication equipment (e.g. cell phones) can affect Medical Electrical Equipment. The use of accessories and cables other than those specified may result in increased emissions or decreased immunity of the unit.

Guidance and manufacturer's declaration-electromagnetic emissions		
The Wireless Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the Wireless Blood Pressure Monitor should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
CE emissions CISPR11	Group 1	The BP-801 Wireless Blood Pressure Monitor 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.
RE emissions CISPR11	Class B	
Harmonic emissions IEC 61000-3-2	Not applicable	The BP-801 Wireless Blood Pressure Monitor 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.
Voltage fluctuations/ Flicker emissions IEC 61000-3-3	Not applicable	

Declaration – electromagnetic emissions and immunity for equipment and systems that are not life-supporting and are specified for use only in a shielded location							
The Wireless Blood Pressure Monitor declaration-electromagnetic immunity				Declaration – electromagnetic immunity			
The Wireless Blood Pressure Monitor system is intended for use in the electromagnetic environment specified below. The customer or the user of the Wireless Blood Pressure Monitor system should assure that it is used in such an environment.				The Wireless Blood Pressure Monitor system is intended for use in the electromagnetic environment specified below. The customer or the user of the Wireless Blood Pressure Monitor system should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance	Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
				Electrostatic discharge (ESD) 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 %.
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 EQUIPMENT or SYSTEM including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Interference may occur in the vicinity of equipment marked with the following symbol.	Electrical fast transient/burst IEC 61000-4-4	2 kV for power supply lines 1 kV for input/output lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
				Surge IEC 61000-4-5	1 kV differential mode 2 kV common mode	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	N/A		Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	-5 % UT(95 % dip in UT) for 0.5 cycle -40 % UT(60 % dip in UT) for 5 cycles -70 % UT(30 % dip in UT) for 25 cycles -5 % UT(95 % dip in UT) for 5 sec	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the EQUIPMENT or SYSTEM requires continued operation during power mains interruptions, it is recommended that the EQUIPMENT or SYSTEM be powered from an uninterruptible power supply or a battery.
				Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	N/A	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

DISPOSAL

Actuation of European directives 2002/95/EC, 2002/96/EC and 2003/108/EC, for reduction in use of dangerous substances in the electric and electronic device and for garbage disposal. The symbol applied on the device or its packaging means that at the end of its useful life the product must not be disposed of with domestic waste. At the end of devices useful life, the user must deliver it to the able collecting centers for electric and electronic garbage, or give back to the retailer when purchasing a new device. Disposing of the product separately prevents possible negative consequences for the environment and for health, deriving from inadequate disposal. It also allows the recovery of materials of which it's made up in order to obtain an important saving of energy and resources and to avoid negative effects to the environment and health. In case of abusive disposal of device by the user, will be applied administrative endorsements in compliance with current standard. The device and its parts is mared with regard to disposal, as appropriate, in accordance with national or regional regulations.



Specifications

Technical data

Product description: Digital automatic Blood Pressure Monitor
Model: BP-801 (Withings)
Measurement method: Cuff oscillometric method
Cuff inflation: Automatic inflation with air pump at 15 mmHg/s
Pressure sensor: Gauge sensor
Measurement range(pressure): 0 to 285 mmHg
Measurement range (pulse): 40 to 180 beats/min
Accuracy (pressure): Within +- 3 mmHg or 2% of reading
Accuracy (pulse): Within +-5% of reading
Sensor: Semiconductor pressure sensor
Operating conditions: 10 to 40°C, 15 to 90% RH, atmospheric 86Kpa~106kpa, altitude: 2000m
Storage and transport conditions: -25 to 70°C,10 to 95%RH,atmospheric 86Kpa~106kpa,altitude: 2000m
Arm type: Circumference 22-42cm (9"-17")
Dimensions: 150(L) x 140(W) x 100(H)
Power source: AAA alkaline cells (x4)
Weight: Approx. 600g without cells
Accessories: AAA Alkaline cells x4, Micro-USB to USB adapter, Instruction manual
Product life : 5 years
Wireless transmission V4.0 dual mode (V2.1 + EDR)

Note : Specifications are subject to change without prior notice or any obligation on the parts of the manufacturer

Withings

Smarter devices, healthier lifestyles

User manual v2.0- Aug., 2013
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