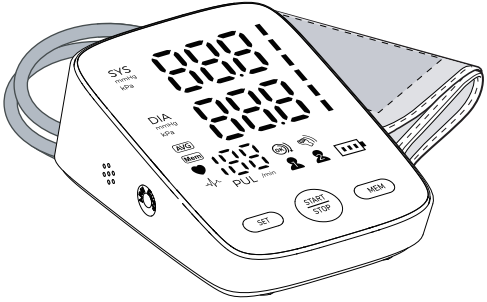
Instruction Manual

Upper Arm Electronic
Blood Pressure Monitor
Model No.: FC-BP121



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- Please read this instruction manual carefully before using your unit.
- Please keep this instruction manual well for future use.
- Thanks for choosing the Digital Blood Pressure Monitor.
- The PATIENT is the designated OPERATOR.

Contents

1. Before Using the Unit

1.1 Introduction

■ Thank you for purchasing the Upper Arm Electronic Blood Pressure Monitor.

■ The unit utilizes the oscillometric method for blood pressure measurement, detecting the movement of your blood through the brachial artery and converting it into a digital reading. This method eliminates the need for a stethoscope during monitoring, making the unit easy to use.

■ The unit automatically stores 2*120 sets of measurement values. You can conveniently review the stored data by pressing the memory button.

■ The unit comes with the following components:

- Main Unit
- Arm Cuff
- Instruction Manual printed in English

SYMBOLS USED IN THIS INSTRUCTION MANUAL		
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.		
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.		
Please read this instruction manual thoroughly before using the unit. Please keep for future reference. For specific information about your own blood pressure, CONSULT YOUR DOCTOR.		
Transport package shall be kept away from rain.	Keep away from sunlight	Fragile, handle with care
EC REP AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY		
Refer to instruction manual/booklet	UDI Unique device identifier	
MANUFACTURER	Date of manufacture	Made in China
SN SERIAL NUMBER	# Model number	MD Medical device
Type BF applied part	Importer	CE 0123 CE mark

	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.
	Device used within the Magnetic Resonance (MR) environment is prohibited.

1.2 Important Safety Notices

To ensure the correct use of the product, basic safety measures should always be followed, including the precautions listed below:

■ Please read all information in the instruction manual and any other literature included in the box before using the unit.

■ Consult your physician for specific information about your blood pressure. Self-diagnosis and treatment based on measurement results can be dangerous. Follow the instructions of your healthcare provider.

■ Operate the unit only as intended. Do not use it for any other purpose. The unit is intended for measuring blood pressure and pulse rate in adults only. It is not recommended for use with neonatal babies at home or in a medical center.

■ Avoid using a cellular phone near the unit, as it may result in operational failure.

■ Refrain from using the unit in high-radiant areas to ensure accurate measuring data.

■ Do not disassemble or attempt to repair the unit or its components. Do not use the equipment in places with flammable gases (such as anesthetic gas, oxygen, or hydrogen) or flammable liquids (such as alcohol).

■ Avoid using a mobile phone or other devices that emit electromagnetic fields near the unit, as this may result in incorrect operation.

■ Note that too frequent measurements can cause injury to the PATIENT due to blood flow interference.

■ Remove the batteries if the unit will not be used for three months or more.

■ Please do not place the CUFF over a wound, as it can cause further injury.

■ Be cautious about the effect of blood flow interference and the potential harmful injury to the PATIENT caused by continuous CUFF pressure due to connection tubing kinking.

■ Statement: Regarding the adapter requirements, it should meet the following conditions: output voltage DC 5V, current 1000mA, and comply with IEC 60601-1 and IEC 60601-1-11. Provide two MOPP insulation layers between AC input and DC output.

■ Avoid installing the battery with the wrong polarity.

■ After the battery is exhausted, replace it with four new batteries.

■ If the device is not used for over three months, please remove the battery to prevent leakage, overheating, rupture, and damage to the blood pressure monitor body.

■ Intended Purpose: The Upper Arm Electronic Blood Pressure Monitor is intended for measuring the systolic and diastolic blood pressure and pulse rate of an adult individual using a non-invasive technique with an inflatable cuff wrapped around the upper arm.

■ Indication: Intermittent measurement of human body blood pressure from the upper arm.

Contraindications:
● The product should not be used for patients with arrhythmia.
● This product is not suitable for infants, neonates, or pregnancy.
● Individuals unable to express themselves should not use this product.

Intended Users: Professional medical staff and laypersons.
Patient Population: Adults.

Clinical Benefits: Measuring body blood pressure helps diagnose human body conditions.

1.3 Warning and Safety Notices:

■ Exercise caution when applying the CUFF and pressurizing it on any limb with vascular access, therapy, or an arteriovenous (A-V) shunt. Temporary interference with blood flow could result in injury to the PATIENT.

■ Be cautious when applying the CUFF and pressurizing it on the arm on the side of a mastectomy.

■ Pressurizing the CUFF can temporarily cause loss of function in simultaneously used monitoring ME EQUIPMENT on the same limb.

■ Ensure that the operation of the AUTOMATED Blood Pressure Monitor does not result in prolonged impairment of the PATIENT's blood circulation. Check, for example, by observing the concerned limb.

■ If the arm is oppressed by air pressure, loosen the CUFF or remove batteries.

■ Avoid touching the patient and battery output simultaneously during measurement.

■ Warning: Do not use lure connectors. If lure lock connectors are used in tubing construction, there is a risk of inadvertent connection to vascular fluid systems, allowing air to be pumped into a blood vessel.

■ Warning: Portable RF communications equipment, including peripherals like antenna cables and external antennas, should be used no closer than 30 cm (12 inches) to any part of the Blood Pressure Monitor, including cables specified by the manufacturer. Otherwise, equipment performance degradation may occur.

■ Warning: Place the Blood Pressure Monitor in a position inaccessible to pets, pests, or children.

■ Warning: The neck of a child or animal can be strangled by a too-long air hose, posing a threat to life, etc.

■ Warning: There is a hazard of accidental ingestion due to small disassemblable parts (such as batteries, etc.) when touched by a child.

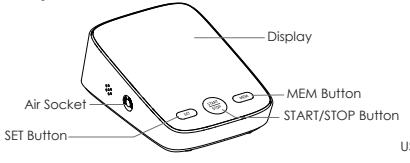
■ Keep the product out of reach of children; use it under adult supervision.

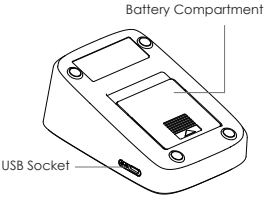
■ Any serious incidents related to the device should be reported to the manufacturer and the local competent authority of the user's location.

■ The Upper Arm Electronic Blood Pressure Monitor underwent clinical investigation in accordance with the requirements of ISO 81060-2:2018+A1:2020.

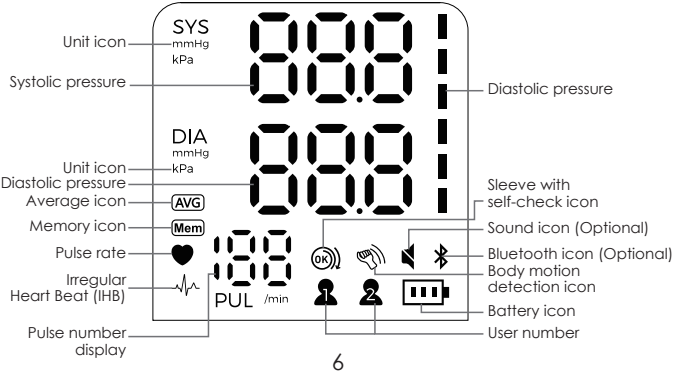
2. Operating Instruction

2.1 Introduction of machine Body



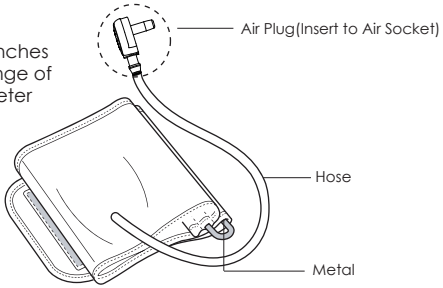


Display



Arm Cuff

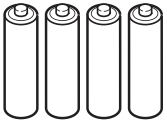
● Fit for 8.7-16.5 inches (22cm~42cm) range of upper arm perimeter



⚠ If your arm cuff is broken or non-functional, please replace it with a new cuff. Note that a new arm cuff does not come with an air plug. Kindly continue using the old air plug with the new arm cuff.

Power

4 AAA Alkaline Batteries



⚠ Do not use rechargeable batteries.

Instruction Manual

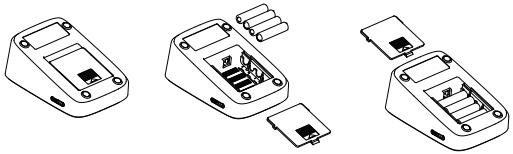
● Please keep the instruction manual well after using.

2.2 Battery Installation / Removal

2.2.1Remove the battery cover from the battery compartment.

2.2.2 Install 4 "AAA" size batteries to match the + (positive) and - (negative) polarities with the polarities of the battery compartment as indicated.

2.2.3 Replace the battery cover.



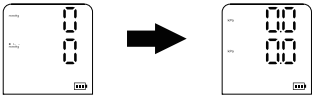
⚠ **Caution!**

● Be sure to replace the batteries if the low power battery symbol appears on the display. Additionally, never leave low-power batteries in the battery compartment, as they may leak and cause damage to the unit.

2.3 Settings

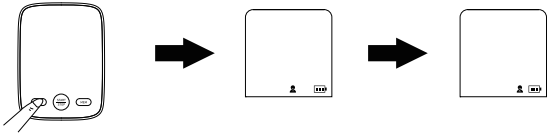
2.3.1 To set unit

Long-press the "SET" button for 6 seconds when powered off to change the previous unit (kPa or mmHg). The mark "88" appears and flashes, indicating the BPM is in mmHg status. Press the "MEM" button to change it into "88", indicating the BPM is in kPa status. Press the "START/STOP" button to confirm the current setting.



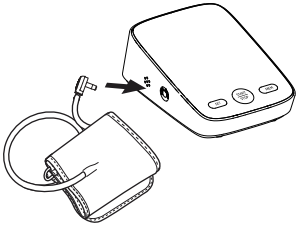
2.3.2 To set user

Press the "SET" button when powered off, and then press the "SET" button again to switch between User 1 or User 2.

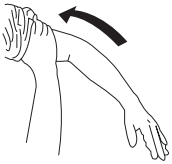


2.4 Proper Use of the Arm Cuff

2.4.1 Ensure that the air plug is properly inserted into the main unit.



2.4.2 Take off all clothing from your upper arm to allow the cuff to fit directly on the skin.

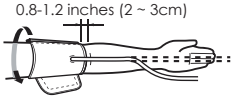


2.4.3 Sit in a chair with your feet flat on the floor. Position your arm on a table to ensure that the cuff is level with your heart.

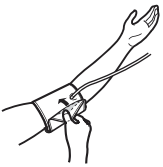
2.4.4 Thread the end of the cuff through the metal, ensuring that the hose is facing outward.

2.4.5 Insert your arm through the loop and pull it up to the position of your upper arm.

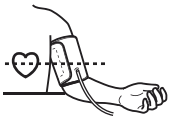
2.4.6 Allow the hose to run down the inside of your arm, and position the bottom of the cuff approximately 0.8-1.2 inches (2~3cm) above your elbow.



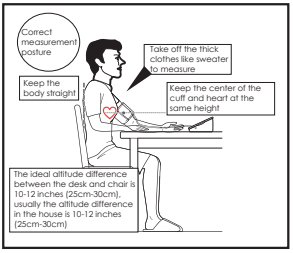
2.4.7. Securely wrap the cuff around your upper arm using the arm band. Ensure there is a gap of 1-2 fingers between your arm and the cuff. Remove any clothing that might restrict the arm.



2.4.8 Relax your arm, with the palm facing upward and fingers naturally curved. Then, turn on the unit and begin the measurement.



2.5 Considerations for Measurement:



2.5.1 Correct Usage Method:
(1) Ensure your elbow is on the table; sit comfortably with legs uncrossed and back and arm supported.
(2) Maintain the center of the cuff at the same height as the heart or nipples.
(3) Avoid putting clothes into the cuff.
(4) Keep palms up and the body relaxed.
(5) Sit in a chair with your feet flat on the ground.

It is recommended that the PATIENT remain relaxed and refrain from talking during the measurement PROCEDURE. Allow 5 minutes to elapse before taking the first reading and avoid compressing or restricting the connection tubing.

2.5.2 Ideal Environment for Measuring Blood Pressure:
(1) Measure in the morning when in a relaxed mood.
(2) Avoid consciousness of the need to use the toilet.
(3) Ensure the room temperature is around 20℃.
(4) Choose a quiet place with minimal surrounding noise.

2.5.3 Measure Blood Pressure at the Same Time Every Day:
Blood pressure is constantly changing, and a single measurement may not accurately reflect the situation. It is more reliable to measure repeatedly over time. Stick to measuring blood pressure every day, preferably in a stable mood, such as early in the morning after waking up. Aim to measure at the same time every day.

Note: Allow at least 2-3 minutes between two measurements. Depending on individual physiological characteristics, a longer rest time may be necessary.

Please have the cuff around your arm before starting the measurement. Avoid measuring your blood pressure on the bus.

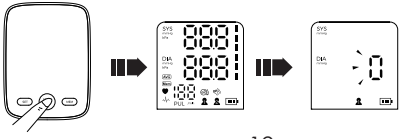
2.6 Function

2.6.1. The device has the WHO warning strip "▮" symbol display function, with the blood pressure value change, the higher blood pressure value "▮" symbol will appear relatively in the higher position (refer to WHO definition of high blood pressure levels-reference table).
2.6.2. The device has the average of the last three display function (press the memory key for the first time to display the value that is the average of the last three measurements).
2.6.3. The device has a large screen display and value.
2.6.4. The device has kPa and mmHg display switching and measurement functions.
2.6.5. The device has double memory lookup function and can store 120 sets of measurements for each person to remember the normal status of your blood pressure.
2.6.6. Clock function: year, month, day, hour, minute setting.
2.6.7.Low power detection: detecting low power under any working state, LCD displays "▭" symbol indicates low power.
2.6.8. Overpressure protection function: when the pressure is more than 300mmHg, the device cause automactic power consumption fastly.
2.6.9. Automatic shutdown function: no operation for 2 minutes the device will be shut down automatically.
2.6.10. Heartbeat prompting function.
2.6.11. Measurement completed prompting function.
2.6.12. Incorrect prompting function.

RATED ranges of the DETERMINATION:
Cuff pressure: 0-299 mmHg
SYS: 45-255 mmHg
DIA: 24-216 mmHg

2.7 Take a Measurement

2.7.1 Press the " START/STOP " button.
All display symbols appear on the screen. The cuff starts to inflate automatically.



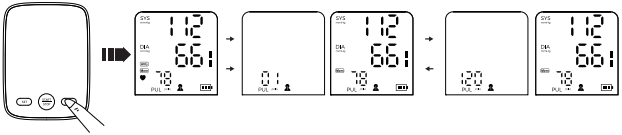
2.7.2 Measurement start. When pressurized to stop blood flow, the Blood Pressure Monitor stops pressure before automatically leaking air and measuring blood pressure.
The heartbeat symbol flashes when a pulse is detected.
When the heart beat symbol appears and flashes, the Blood Pressure Monitor detects the pulse and begins to calculate the pulse automatically.

2.7.3 The blood pressure and pulse rate are displayed when the measurement completed.
The cuff is deflated automatically, and all of the measurement results are stored in the memory.
The " " symbol will be displayed if irregular heartbeat is detected.

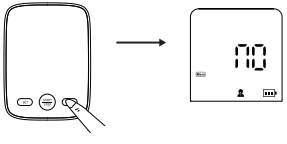
2.7.4 Press the "START/STOP" button to turn off the unit.
The unit will be automatically turned off after two minutes if no more operation.
NOTE: The inflation or measurement can be stopped by pressing the "START/STOP" button at any time.

2.8 Use the Memory function
The unit stores blood pressure and pulse rate in the memory mode after completing each measurement. Automatically, 2x120 sets of measurement values can be stored. The earliest record will be deleted automatically to save the latest measurement value when more than 2x120 sets are recorded.
The unit also calculates an average reading based on the values of the latest 3 measurements.

2.8.1. To Enter Memory Mode & Read the Average Value
Press the “MEM” button while the unit is off. The unit enters memory mode, and the average value of the latest 3 measurements for the current user will be displayed. Press the “MEM” button once more to display the latest measurement values. Press the "MEM" button again to check earlier measurement values.



2.8.2 To Delete Memory Values
In the memory mode, long press the “ MEM ” button, the unit displays the following symbol to cancel all the memory records of the current user.
■ Press the “START/STOP” to cancel the memory records of the current user if you are sure all the data of corresponding user can be deleted, the unit will be turned off after deleting.
■ Please operate the delete memory function cautiously.



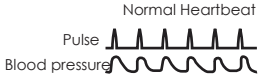
2.9 About Blood Pressure

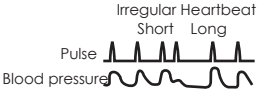
2.9.1 Irregular Heartbeat Symbol IHB

When the unit detects an irregular rhythm two or more times during the measurement, the irregular heartbeat Symbol will appear on the display with the measurement values.

An irregular heartbeat rhythm is defined as a rhythm that is more than 25% slower or 25% faster from the average rhythm which detected while the monitor is measuring the systolic blood pressure and the diastolic blood pressure.

If the Irregular Heartbeat Symbol ( ) displays your measurement results, we recommend you consult your physician, and follow the doctor's directions.





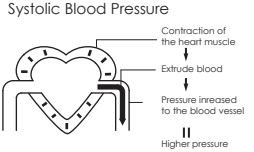
2.9.2 Blood Circulation

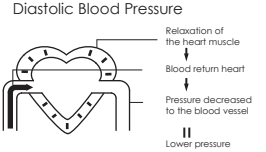
The blood circulation is responsible for supplying the body with oxygen.

Blood pressure is the pressure exerted on the arteries.

The systolic blood pressure value (higher pressure or top value) represents the blood pressure produced by contraction of the heart muscle.

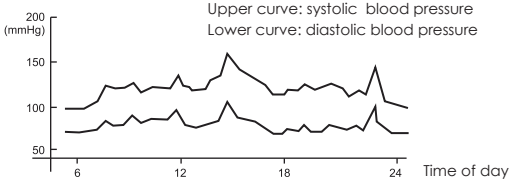
The diastolic blood pressure value (lower pressure or lower value) represents the blood pressure produced by relaxation of the heart muscle.





2.9.3 Health and Blood Pressure

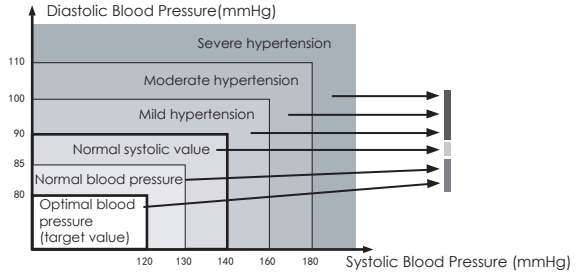
The incidence of hypertension increases with age. In addition, if a lack of exercise, excess body fat and high levels of cholesterol(LDL), would sticks to the inside of blood vessels, which reduces elastictity of these vessels. Hypertension accelerated arteriosclerosis which can lead to serious conditions such as stroke and myocardial infarction. For these reasons, it is very important to know whether the blood pressure is within a healthy range. Blood pressure fluctuates from minute to minute throughout the day. Therefore it is essential to take regular measurements to help you identify an average blood pressure.



2.9.4 Classification of Blood Pressure

After each measurement is completed, the LED display will show your position automatically on the six segments of the bar indicator which corresponds to World Health Organization (WHO) Blood Pressure Indicator.

Reference Material: Journal of Hypertension 1999, Vol 17 No.2



*Note!

When a person's systolic and diastolic pressures fall into different categories, the higher category should apply.

2.9.5 Symptoms of High Blood Pressure
High blood pressure can go unnoticed for a long time, since it doesn't cause noticeable symptoms. The following are possible causes of abnormally high blood pressure:
●Overweight;
●High cholesterol level;
●Smoking;
●Excessive alcohol consumption;
●Stress and emotional upset;
●Excessive consumption of salt;
●Lack of physical exercise;
●Genetic / hereditary predisposition;
●Underlying illnesses, such as kidney disorders or endocrine disturbance.

2.9.6 Treatment of High Blood Pressure:
If your blood pressure consistently reaches upper values of 140-160 mmHg and lower values of 90-95 mmHg over several days, it is advisable to consult a doctor for a detailed medical examination. You can support the treatment prescribed by your doctor in the following ways:
● Lose weight and lower your cholesterol level
●Reduce alcohol consumption
● Cut down on salt intake
● Quit smoking
● Engage in regular exercise
● Monitor your blood pressure regularly

3. Care and Maintenance

3.1 Cleaning/Disinfecting and Maintenance:
To maintain your blood pressure monitor in optimal condition and protect it from damage, please adhere to the following guidelines:
3.1.1 Clean the blood pressure monitor regularly after each use by a user. Avoid using abrasive or volatile cleaners, and never immerse the unit or its components in water.
3.1.2 Use a soft dry cloth or towel to clean the blood pressure monitor. If it is very dirty, you can dampen the towel with water or a neutral detergent, wring it out, and wipe the monitor.
3.1.3 Disinfect the cuff with moistened 75% alcohol cotton wool.
3.1.4 Store the unit in a safe and dry location. Avoid folding the cuff too tightly, and prevent exposure to extreme hot or cold temperatures, humidity, and direct sunlight.
3.1.5 Avoid subjecting the unit to strong shocks, such as dropping it on the floor.
3.1.6 Remove the batteries if the unit will not be used for three months or longer. Always replace all batteries with new ones at the same time.
3.1.7 Use the unit following the instructions provided in this manual. Only use authorized parts and accessories.

3.1.8 Do not attempt to repair or open the machine by yourself. In case of a defect, please contact the local distributor for professional assistance.
3.1.9 We will provide circuit diagrams, component part lists, descriptions, calibration instructions, or other information to assist service personnel who are trained by the manufacturer and possess the relevant qualification certificate.

3.2 Calibration and Service
The accuracy of this blood pressure monitor has been carefully tested and is designed for a long service life. It is generally suggested to have the unit inspected every two years to ensure correct functioning and accuracy. Please consult local authorized distributor or dealer.

3.3 Error Indicators
The following symbols will appear on the display when measuring abnormally.

Symbol	Cause	Correction
	The course of inflating appears error	Wrap the cuff correctly and tightly
		Inflate over again after ensuring
	When measurement fails	Do not move your arm and body and keep quiet
		Measure over again according to correct way
	When the batteries power is too low	Replace all of the worn batteries with new ones

3.4 Troubleshooting

Problem	Causes and Solutions
No power	Replace all of the exhausted batteries with new ones
No digital reading appears on the display screen	Check that whether the battery is installed on the right polarity.
Measurement values appear too high or too low	Blood pressure varies constantly. Many factors may effect your blood pressure, including stress, time of day, how you wrap the cuff. Review the sections "Proper Way of Measurement" and "Take a Measurement"

3.5 Technical Data

3.5.1 Specifications

1	Model	FC-BP121
2	Measurement Method	Oscillometric measurement method
3	Display	LED Digital Display
4	Measurement Range	Blood Pressure range: 0~299mmHg (0 kPa - 39.9 kPa) Pulse: 40 to 180 beats/min
5	Accuracy of the cuff pressure	Static Pressure: ±3mmHg(±0.4 kPa) Pulse rate: Within ±5% of reading
6	Inflation	Automatic inflation by pump
7	Deflation	Automatic rapid deflation
8	Pressure Detection	Semiconductor pressure sensor
9	Memory	2 Users * 120 memories
10	Power supply	4 AAA alkaline batteries (not included), DC6V
		USB Type C（DC5V1A）
11	Battery life	Approximately 300 measurements when using alkaline batteries at the room temperature of 22°C and by using three times a day and inflating to 170 mmHg
12	Storage Condition	Temperature: -4°F to 140°F (-20°C to 55°C) Humidity: 0 to 95% RH Atmospheric pressure: 70 - 106kPa
13	Operating Condition	Temperature: 50°F to 104°F (10°C to 40°C) Humidity: 15 to 85% RH
14	Automatic Power-OFF	Within 2 Minutes
15	Weight of Main Unit	240g (exclude batteries)
16	External Dimensions	129 X 96 X 53 mm
17	Cuff	9-17 inches (22-42cm)
18	Electric Shock Protection	Internal power supply appliance type B

19	Accessorial Components	Cuff, Instruction Manual
20	Service Life	5 Years

To improve performance, these specifications are subject to change without notice.
The device, accessories and the packaging have to disposed waste correctly after the end of the usage, so that the risk of patient or user can be lowered to acceptable level.

IEC 60601-1-2:2014/AMD1:2020 ME EQUIPMENT and ME SYSTEMS identification, marking and documents for Class B product

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 shieldedroom 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 Upper Arm Electronic Blood Pressure Monitor (FC-BP121), 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).

3.6 Technical description

1.all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life.

2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity.

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/flicker emissions IEC 61000-3-3	Compliance

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
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 100 kHz repetition frequency	Power supply lines: ±2 kV 100 kHz repetition frequency
Surge IEC 61000-4-5	line(s) to line(s): ±1 kV.	line(s) to line(s): ±1 kV.
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 IEC61000-4-6	150KHz to 80MHz: 3Vrms6Vrms (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 IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE UT is the a.c. mains voltage prior to application of the test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity								
	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test level (V/m)	Compliance level (V/m)
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	385	380–390	TETRA 400	Pulse modulation18 Hz	1,8	0,3	27	27
	450	430–470	GMRS 460, FRS 460	FM ±5 kHz deviation 1kHz sine	2	0,3	28	28
	710	704–787	LTE Band 13,17	Pulse modulation 217 Hz	0,2	0,3	9	9
	745							
	780							
	810	800–960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0,3	28	28
	870							
	930							

	1720 1845 1970	1700–1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3,4, 25; UMTS	Pulse modulation 217 Hz	2	0,3	28	28
	2450	2400–2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0,3	28	28
	5240 5500 5785	5100–5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0,2	0,3	9	9

Guidance and manufacturer's declaration - electromagnetic Immunity		
Test frequency	Modulation	IMMUNITY TEST LEVEL (A/m)
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.		

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.
(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 whether 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 remove 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.

Changes or modifications to the product not explicitly approved by the party responsible for compliance could void the user's authority to operate the equipment.

State:

Bluetooth connection and transmission function: a) Turn on the bloodpressure monitor, turn on the Bluetooth, connect to the Bluetooth;b) Search for " FC-BP130 " on your bluetooth receiver; c) Connecting the "FC-BP130" until it is connected; d) Start data transmission,the data your measured will be transmitted to your bluetooth receiver after measurement is completed.

Requirements applicable to me equipment that intentionally receive RF electromagnetic energy include the following information:
- each frequency or frequency of reception,
- the preferred frequency or frequency band, if applicable, and
- the bandwidth of the receiving section of the ME Equipment in those bands

RF Transmission Frequency: 2400-2483.5MHz

RF receiving sensitivity

Parameter	Minimum value	Typical value	Maximum value	unit
RX sensitivity 1Mbps	-	-92	-	dBm
Frequency offset 1Mbps	115	-	+300	KHz

Basic RF features

Parameter	Descrption
Working frequency	2.4GHz ISM band
Wireless standard	Bluetooth LE4.2
Data transmission rate	1Mbps
Antenna type	Onboard PCB antenna

Requirements applicable to the me equipment that include RF transmitters the technical description includes the frequency or frequency band of transmission, the type and frequency characteristics of the modulation and the effective radiated power (ERP):

RF output power

Parameter	Minimum value	Typical value	Maximum value	unit
Average RF output power	-20	0	4	dBm
20dB modulation signal bandwidth 1M	-	1000	-	KHz

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.
(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.

Changes or modifications to the product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

4. Warranty Information

■ The unit is guaranteed to be free of defects in workmanship and materials under normal use for a period of two years from the date listed on the purchase record.

■ For repair under this warranty, our authorized service agent must be advised of the fault with the period of warranty. This warranty covers parts and labor only under normal operations. Any defect resulting from natural cause, e.g Flood, hurricane etc is not within this guarantee.

■ This guarantee does not cover damage incurred by using without following in accordance with the instructions, accidental damage or being tampered/serviced by unauthorized service agents.A transportation fee or freight fee that may be incurred will be the owner's responsibility.

■ This guarantee specifically excludes expendables and consumables, for example batteries. All warranty claims must be directed to the distributor responsible for the sale of the device. The content of this warranty is subject to change without further notice.

■ Monitor subjected to misuse, abuse and neglect of these manual content excluded from the warranty.

■ WARNING: No modication of this equipment is allowed.

4. Warranty Information

■ The unit is guaranteed to be free of defects in workmanship and materials when used as intended for a period of two years from the date listed on the purchase record.

■ For repairs under this warranty, our authorized service agent must be notified of the fault within the warranty period. This warranty covers parts and labor only under normal operations. Any defects resulting from natural causes, such as floods or hurricanes, are not covered by this guarantee.

■ This guarantee does not cover damage incurred by not following the instructions, accidental damage, or tampering/servicing by unauthorized service agents. Any transportation or freight fees incurred will be the owner's responsibility.

■ This guarantee specifically excludes expendables and consumables, for example batteries.
All warranty claims must be directed to the distributor responsible for the sale of the device.
The content of this warranty is subject to change without further notice.

■ Monitors subjected to misuse, abuse, and neglect of the manual content are excluded from the warranty.

■ WARNING: No modification of this equipment is allowed.

FCC ID: 2A3QXFCBP121

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