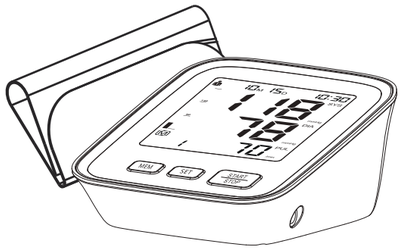
ALPHAMED

Upper Arm Electronic

# Blood Pressure Monitor

## Model: U80N



# Instruction Manual

## Table of Contents





## Introduction

▲ Your new digital blood pressure monitor uses the oscillometric method of blood pressure measurement. This means the monitor detects your blood's movement through your brachial artery and converts the movements into a digital reading. An oscillometric monitor does not need a stethoscope, so the monitor is simple to use.

▲ Intelligent inflation will reduce the uncomfortable feeling by incorrect inflation, and shorten the measurement time, prolong the cuff's usage lifetime.

▲ 2x199 sets memory function each measurement result will be displayed on the screen, and automatically stored. This unit has blood classification index, could easy to check your blood pressure.

▲ Please read the manual carefully before you use the unit, and keep the manual well after using.

**INTENDED USE**
This automatic blood pressure monitor intends to measure the systolic pressure, diastolic pressure and pulse rate through upper arm. It's expected to be used at home or in the hospital, intended for people over 12 years old.

**CONTRAINDICATION**
This product can't be used in patients who is with severe heart insufficiency to avoid suffocation and death.
This product is not suitable for infants and children.



## Safety Information

■ To assure the correct use of the product, basic safety measures should always be followed including the warning and the caution listed in the instruction manual :

**Symbol descriptions**

The following symbols may appear in this manual, on the label, on the device, or on it's accessories. Some of the symbols represent standards and compliances associated with the device and its use.

⚠ WARNING: This alert identifies hazards that may cause serious personal injury or death.

⚠ CAUTION: This alert identifies hazards that may cause minor personal injury, product damage, or property damage.

Type BF applied part

Manufacturer SN Specifies serial number

EC REP Authorized Representative in the European Community.

CE 0123 CE Mark: conforms to essential requirements of the Medical Device Directive 93/42/EEC.

DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

Direct current

Follow instructions for use

CAUTION: Consult accompanying documents



## Safety Information

⚠ Those who have arrhythmia, diabetes, blood circulation or apoplexy problem, please use under the physician's instruction.

⚠ Contact your physician for specific information about your blood pressure. Self diagnosis and treatment which use measured results may be dangerous. Follow the instructions of your physician or licensed healthcare provider.

⚠ Please place on a high place where children can't be touched.

⚠ No modification of this equipment is allowed.

⚠ Do not modify this equipment without authorization of the manufacturer.

⚠ If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment.

⚠ The cuff hose around neck may cause the suffocation.

⚠ The swallowing of small part like packaging bag, battery, battery cover and so on may cause the suffocation.

⚠ Please don't use a dilution agent, alcohol or petrol to clean the unit. Please don't hit heavily or fall down the product from a high place. Use the right cuff, otherwise it can not work.

⚠ Never leave any low battery in the battery compartment since they may leak and cause damage to the unit.

⚠ Please take off the battery if you won't use in 3 months.

⚠ Replace the new batteries if the unit display a low battery symbol.



## Safety Information

⚠ Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away.

⚠ If the arm circumference size is beyond the measuring range of CUFF, it can't be measured and used, then it will cause the blood flowing unsmooth and wrong measurement data.

⚠ Don't kink the connection tube during use, otherwise the cuff pressure may continuously increase which can prevent blood flow and result in harmful injury to the PATIENT.

⚠ Too frequent measurements can cause injury to the PATIENT due to blood flow interference.

⚠ Don't apply CUFF over a wound, it can cause further injury to the PATIENT.

⚠ The device is not suitable for use on neonatal patients, pregnant women, patients with implanted, electronical devices, patients with pre-eclampsia, premature ventricular beats, atrial fibrillation, peripheral, arterial disease and patients undergoing intravascular therapy or arterio-venous shunt or people who received a mastectomy. Please consult your doctor prior to using the unit if you suffer from illnesses.

⚠ When using this device, please pay attention to the following situation which may interrupt blood flow and influence blood circulation of the patient, thus cause harmful injury to the patient: connection tubing kinking too frequent: the application of the cuff and its pressurization on any arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present; inflating the cuff on the side of a mastectomy.

⚠ Do not inflate the cuff on the same limb which other monitoring ME equipment is applied around simultaneously, because this could cause temporary loss of function of those.

⚠ Please check that operation of the device does not result in prolonged impairment of patient blood circulation.



## Safety Information

⚠ Do not mix the old and new batteries.

⚠ Do not use a cellular phone near the unit. it may result in operational failure.

⚠ Please avoid using in high radiant area in order to make your measuring data correctly.

⚠ Do not use the equipment where flammable gas (such as anesthetic gas, oxygen or hydrogen) or flammable liquid (such as alcohol) are present.

⚠ WARNING:
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

### Classification

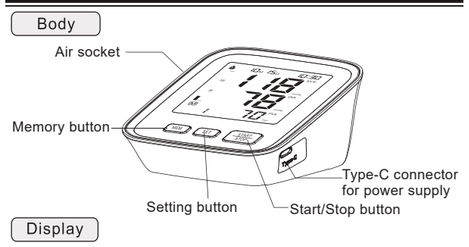
1. Internally powered equipment;
2. Type BF applied part;
3. Protection against ingress of water or Particulate matter: IP21;
4. Not category AP/APG equipment;
5. Mode of operation: Intermittent operation.

⚠ The user must check that the equipment functions safely and see that it is in proper working condition before being used.

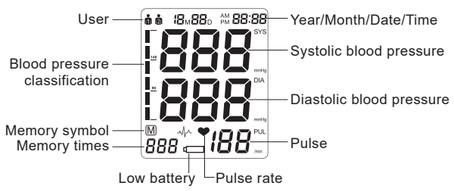


## Product structure

Body



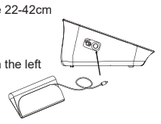

Display




Cuff size and connection

The accessories cuff is L size,for upper-arm circumference 22-42cm use.The cuff is treated as the applied part.

Insert the connector with cuff tube into the hole which is on the left side of the device as picture.(Only provided cuff can be used, can not change to any other branded cuff.)





## Battery installation

Battery installation

Remove the battery cover from the battery compartment, insert the battery.
a) Remove the battery cover as picture showed.
b) Insert 4 AAA powerful batteries into the compartment and ensure each battery is in the proper direction.



### Low battery and replacement

When power on, the low battery symbol will display once the unit start to work, and you must replace with new batteries, otherwise the unit can't work.

### Battery type and replacement

Please use 4pcs AAA identical 1.5V alkaline batteries.
Do not use the batteries beyond their expiry date.
Please remove the batteries if you do not need to use for long time.

⚠ WARNING:
Dispose of the battery in accordance with all federal, state and local laws.To avoid fire and explosion hazard, do not burn or incinerate the battery.



## Battery installation

Adapter usage (option)

1. When optional AC adapter should comply with the requirement of IEC 60601-1:2005+AMD1:2012+AMD2:2020. Furthermore all configurations shall comply with the requirements for medical electrical systems (see IEC 60601-1-1 or clause 16 of the 3Ed. of IEC 60601-1, respectively). Anybody connecting additional equipment to medical electrical equipment configures a medical system and is therefore responsible that the system complies with the requirements for medical electrical systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. if in doubt, consult your local representative or the technical service department.

2. This device is double insulated and protected against short circuit and overload by a primary thermal fuse. Make sure to take the batteries out of the compartment before using the mains part. Equipment class 2.

3. When using AC power, to avoid possible damage to the monitor, use only the exclusive AC adapter that can be purchased from authorized dealers. Other adapters may vary in output voltage and polarities.

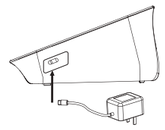
4. Insert the adapter plug into the hole on the backside of the unit as picture.

5. Insert the other side of the adapter into the outlet with 100-240V.

6. To remove the AC adapter, disconnect the adapter plug from the outlet first and then disconnect the cord from the unit's socket.

### Adapter technical features:

Output voltage: Type-C 5V
Output current: At least 600 mA





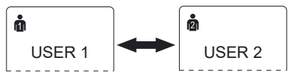
## Setting mode

Note:
▪ When use AC adapter, the power of battery won't be consumed.
▪ When suddenly stop during measurement ( like the plug off from the outlet by carelessness), it must be reinserted the plug into the unit, and restart the measurement.

### How to set

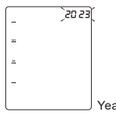
#### 1. User setting:

Press button SET when power off, the screen will display 1 or 2 press button MEM, it will be changed between 1 and 2 , press button SET when you confirm the user, then it will enter into the year setting mode.




#### 2. Year setting:

Continue to above step, the screen will display and flash 20XX, the last digit of the year will increase 1 when press button MEM each time, you could choose from 20XX to 2099. Press button SET when you confirm the year, then it will enter into the month and date setting mode.




Year setting



## Setting mode

#### 3. Month and date setting

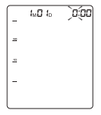
Continue to above step, the screen will display xxMxxD and XXXX, and keep flashing on month, the digit will increase 1 when press button MEM each time, you could choose from 1 to 12. Press button SET when you confirm the month, then it will set the date. Same as the month setting, each time you press button MEM, the digit will keep changing from 01 to 31. Press button SET when you confirm the date, then it will enter into the time setting mode.


Month setting

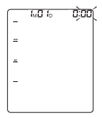

Date setting

#### 4. Time Setting

• Continuing from the previous step, the screen will now display xxMxxD and XX:XX, with the digits of the hour flashing. Press the MEM button to increment the hour, and you can choose from 1 to 12. As you press MEM, you'll notice the inclusion of AM and PM indicators. The hour digits will cycle continuously as you press the button until you find the desired hour. Press the SET button to confirm the hour selection.
• Next, the digits of the minute will start flashing, similar to the hour setting. Use the MEM button to cycle through the minutes, ranging from 00 to 59. Once you've selected the desired minute, press the SET button to finalize the minute setting.
• With these adjustments, the total time setting process is now completed in the 12-hour format.




Hour setting




Minute setting



## Proper use of the unit

Measurement

### Pre-measurement

- Relax for about five to ten minutes prior to the measurement
- Avoid eating, drinking alcohol, smoking, exercising and bathing for 30 minutes before taking a measurement.
- All these factors will influence the measurement result.
- Remove any garment that fits closely to your upper arm.
- Always measure on the same arm (normally left).
- Take measurement regularly at the same time of every day, as blood pressure changes even during the day.

### Common factors of wrong measurement

- All efforts by the patient to support their arm can increase blood pressure.
- Make sure you are in a comfortable, relax position and do not activate any of the muscles in the measurement arm, don't legs uncrossed, keep the feel flat on floor, back and arm supported during measurement. Use a cushion for support if necessary.
- If the arm artery lies lower or higher than the heart, a false reading will be obtained.

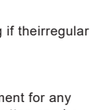
Note:
- Only use the cuffs provided by the manufacturer, and changing cuffs from other manufacturers may cause inaccurate
- A loose cuff or a exposed bladder causes false reading.
With repeated measurements, blood accumulates in the arm which can lead to false reading.
Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away.



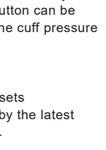
## Proper use of the unit

### Fitting the cuff

1). Put the cuff on a table flatly with the velcro side down. Pass the end of the cuff through the metal loop so that a circle is formed. The velcro closer will now be facing outwards (ignore this step if the cuff has already been prepared) .



2). Push the cuff over the left upper arm so that the tube points in the direction of the lower arm.



3). Wrap the cuff around the arm as shown in the picture. Make sure that the distance between the cuff trachea turret and the elbow Joint is about 2-3cm (1 inch).




4). Tighten the free end of the cuff and close the cuff by affixing the velcro.



5). The cuff should be snug on your upper arm so That you can fit 2 fingers between the cuff and your upper arm. Any piece of clothing restricts the arm which must be taken off.



6). Secure the cuff with the velcro closer in such a way that it lies comfortably and not too tight. Lay your arm on a table (palm upwards) so that the cuff is at the same height as the heart. Do not bend the tube.



Note:
If it is not possible to fit the cuff to your left arm, it can also be placed on the right. However, all measurements should be made using the same arm.





## Proper use of the unit

### Measuring procedure:

After the cuff has been appropriately positioned, the measurement can begin:

1). Press the START/STOP button, all symbols appear on the display, then the pump begins to inflate the cuff, the rising pressure in the cuff is shown on the display.




2). After the suitable pressure has been reached, the pump stops and the pressure gradually falls.The cuff pressure is displayed. In case that the inflation is not sufficient, the device automatically re-inflates to a higher pressure.

3). When the device detects the signal, the heart symbol ♥ on the display starts to flash.




4). When the measurement has been completed, the systolic, diastolic and pulse rate will appear on the display.

5). The measurement readings remain on the display until you switch off the device. If no button is pressed for a period of 3 minutes, the device switches off itself in order to save the power.




Note:
The symbol will be displayed along with the reading if theirregular heartbeat is detected during the measurement.

### Discontinuing a measurement

If it is necessary to interrupt a blood pressure measurement for any reason (eg. the patient feels unwell) the START/STOP button can be pressed at any time. The device immediately decrease the cuff pressure automatically.

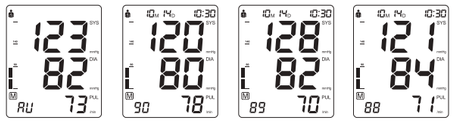
### Memory-recall of measurements

This blood pressure monitor automatically stores 2x199 sets measurements value, the oldest record will be replaced by the latest measurement value when more than 500 sets each user.

## About blood pressure

### Read memory record

Press the button MEM when power off, the latest 3 times average value will be shown, press the button MEM again, the last measurement value will be shown, as well as subsequent measurements can be display one after the other by pressing the button MEM each time.




### Memory -clear of measurements

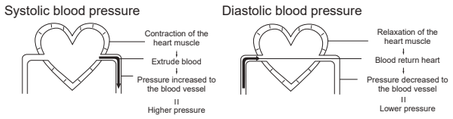
If you're sure you want to permanently erase all your stored memories. Press the SET button continuously in the shutdown state until CL appears. Press the START/STOP button and CL will flash 3 times to clear all memories. After pressing the MEM button, Ⓜ and “no” will be displayed on the display, which means there is no memory storage.

### About blood pressure

Blood pressure is the pressure exerted the arteries.

The systolic blood pressure value represents the blood pressure produced by contraction of the heart muscle.

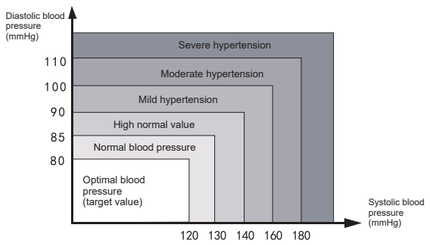
The diastolic blood pressure value represents the blood pressure produced by relaxation of the heart muscle.






## About blood pressure

- According to the blood pressure classification by the WHO/ISH.
- SYS lower than 100mmHg is considered as hypotension.




- Blood pressure type


Optimal blood pressure | Normal blood pressure | High normal value


Mild hypertension | Moderate hypertension | Severe hypertension



## Exceptional Situation

### Error indicators

- The following symbol will appear on the display when measuring abnormal.

| Symbol | Cause | Correction |
|---|---|---|
| E-1 | weak signal or pressure change suddenly<br>Out of range indicates HI | Wrap the cuff properly. |
| | | with a correct way. |
| E-2 | External strong disturbance | When near cell phone or other high radiant device, the measurement will be failed. |
| | | Keep quite and no chatting when measure. |
| E-3 | It appears error during the process of inflating | Wrap the cuff properly. |
| | | Make sure that the air plug is properly inserted in the unit. |
| | | Remeasure. |
| E-5 | Abnormal blood pressure | Repeat the measurement after relax for 30 mins, if get unusual readings for 3 times, please contact your doctor. |
| ▭ | Low battery | Replace all the worn batteries with new ones. |

### Trouble removal

| Problem | Check | Cause and solutions |
|---|---|---|
| No power | Check the battery power | Replace new one |
| | Check the polarity position | Installation for proper placement of the batteries polarities |
| No inflation | Whether the plug insert | Insert into the air socket tightly |
| | Whether the plug broken or leak | Change a new cuff |
| Err and stop working | Whether move the arm when inflate | Keep the body peaceful |
| | Check if chatting when measured | Keep quite when measure |
| Cuff leak | Whether the cuff wrap too loose | Wrap the cuff tightly |
| | Whether the cuff broken | Change a new cuff |

⚠ Please contact the distributor if you can't solve the problem, do not disassemble the unit by yourself!

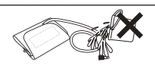
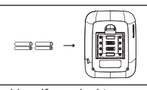


## Care and maintenance

### Care for the main unit and blood pressure monitor cuff

| | |
|---|---|
| ● Keep the unit in the storage case when no use.<br>● Clean the unit with soft dry cloth. Do not use any abrasive or volatile cleaners.<br>● Never immerse the unit or any component in water. |  |
| ● Make sure the monitor is off prior to cleaning, a mixture of distilled water and 10 percent bleach could be used.<br>● Using a spray bottle, moisten a soft cloth towel with the bleach or detergent mix until it is fully saturated. Squeeze any excess moisture from the cloth to avoid any dripping or potential over saturation of the cuff.<br>● Wipe all surfaces of the blood pressure monitor cuff thoroughly, making sure to clean the inside and outside of the cuff. Be cautious not to get any moisture in the main unit.<br>● Using a dry cloth, gently wipe away any excess moisture that may remain on the blood pressure cuff. Lay the cuff flat in an unrolled position and allow the cuff to air dry. |  |

### Maintenance

| | |
|---|---|
| ● Do not clean the body and cuff with naphtha, thinner or gasoline etc. | ● Do not wet the cuff or attempt to clean the cuff with water. |
|  |  |
| ● Store the unit in a clean and dry location.<br>Do not subject the unit to extreme hot or cold temperature, humidity and direct sunlight. | ● Remove the batteries if the unit will not be used in 3 months or longer. |
|  |  |
| ※We won't be responsible for any quality problem if you don' t care and maintain the product as instructed. | |



## Specification

| | | |
|---|---|---|
| Description | Upper Arm Electronic Blood Pressure Monitor | |
| Display | LCD digital display | |
| Measuring principle | Oscillometric method | |
| Measuring localization | Upper arm | |
| Measurement range | Pressure | 0~299 mmHg |
| | Pulse | 40~199 pulses/min |
| Maximum tolerance of static pressure value | ±3mmHg | |
| Pulse of reading | ±5% of reading | |
| LCD indication | Pressure | 3 digits display of mmHg |
| | Pulse | 3 digits display |
| | Symbol | Memory/Heartbeat/Low battery |
| Memory function | 2x199 sets memory of measurement values | |
| Power source | 4pcs AAA alkaline battery DC.6V or Type-C 5V | |
| Automatic power off | In 3 minutes | |
| Main unit weight | Approx. 210g ( batteries not included ) | |
| Main unit size | L125mm x W95mm x H53mm | |
| Main unit lifetime | 10,000 times under normal use | |
| Battery life | Could be used for 300 times for normal condition | |
| Accessories | Cuff, instruction manual | |
| Operating environment | Temperature | 5~40°C |
| | Humidity | 15%~93%RH |
| | Air pressure | 86kPa~106kPa |
| Storage environment | Air pressure: 86kPa~106kPa<br>Temperature: -20°C~55°C , Humidity: 10%~93%RH<br>avoid crash, sun burn or rain during transportation. | |
| Expected service life | 5 years | |
| Software Ver | UA1.0 | |



## Warranty information

### Statement

- The intended use: the unit is intended to be used by adults at home or medical center to measure blood pressure and pulse rate from the upper arm.
- The device meets the requirements of IEC 80601-2-30 Part 2 for non-invasive blood pressure monitors.
- Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff /stethoscope auscultatory method, within the limits prescribed by the American National Standard, manual, electronic, or automated sphygmomanometers.
- The risk of patient and user can be lowered to acceptable level.

### Warranty Information

- The unit is guaranteed to be free of defects in workmanship and materials under normal use for a period of 12 months 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 the warranty. This warranty covers parts and labor only under normal operations. Any defect resulting from natural causes, eg. flood, hurricane etc, is not within this guarantee. This guaranty does not cover damage incurred By use of the unit not in accordance with the instructions, accidental damage, or being tampered with or serviced by unauthorized service agents.
- Monitor subjected to misuse, abuse, and neglect of these manual content, non-instructional purposes; unauthorized repair or modifications will be excluded from this warranty.

⚠ The device requires no calibration.

⚠ The device is not repairable and contains no user serviceable parts.



## EMC Declaration

**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 shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

**Warning:** Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

**Warning:** Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

**Warning:** Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the blood pressure monitor, 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).



## EMC Declaration

**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<br>CISPR 11 | Group 1 |
| RF emissions<br>CISPR 11 | Class B |
| Harmonic emissions<br>IEC 61000-3-2 | Class A |
| Voltage fluctuations / flicker emissions<br>IEC 61000-3-3 | Compliance |



## EMC Declaration

Table 2

| Guidance and manufacturer’s declaration - electromagnetic Immunity | | |
|---|---|---|
| **Immunity Test** | **IEC 60601-1-2 Test level** | **Compliance level** |
| Electrostatic discharge (ESD)<br>IEC 61000-4-2 | ±8 kV contact<br>±2 kV, ±4 kV, ±8 kV, ±15 kV air | ±8 kV contact<br>±2 kV, ±4 kV, ±8 kV, ±15 kV air |
| Electrical fast transient/burst<br>IEC 61000-4-4 | Power supply lines: ±2 kV<br>100 kHz repetition frequency | Power supply lines: ±2 kV<br>100 kHz repetition frequency |
| Surge<br>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<br>IEC 61000-4-11 | 0% 0.5 cycle<br>At 0º, 45 º, 90 º, 135 º, 180 º, 225 º, 270 º and 315 º<br>0% 1 cycle<br>And<br>70% 25/30 cycles<br>Single phase: at 0<br>0% 300 cycle | 0% 0.5 cycle<br>At 0º, 45 º, 90 º, 135 º, 180 º, 225 º, 270 º and 315 º<br>0% 1 cycle<br>And<br>70% 25/30 cycles<br>Single phase: at 0<br>0% 300 cycle |
| Power frequency magnetic field<br>IEC 61000-4-8 | 30 A/m<br>50Hz/60Hz | 30 A/m<br>50Hz/60Hz |
| Conduced RF<br>IEC61000-4-6 | 150KHz to 80MHz:<br>3Vrms<br>6Vrms (in ISM and amateur radio bands)<br>80% Am at 1kHz | 150KHz to 80MHz:<br>3Vrms<br>6Vrms (in ISM and amateur radio bands)<br>80% Am at 1kHz |
| Radiated RF<br>IEC61000-4-3 | 10 V/m<br>80 MHz – 2,7 GHz<br>80 % AM at 1 kHz | 10 V/m<br>80 MHz – 2,7 GHz<br>80 % AM at 1 kHz |
| Proximity magnetic fields<br>IEC 61000-4-39 | 30 kHz: 8A/m<br>134.2 kHz: 65A/m<br>13.56 MHz: 7.5A/m | 30 kHz: 8A/m<br>134.2 kHz: 65A/m<br>13.56 MHz: 7.5A/m |
| NOTE $U_T$ is the a.c. mians voltage prior to application of the test level. | | |



## EMC Declaration

Table 3

| Guidance and manufacturer’s declaration - electromagnetic immunity | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment) | | | | | | | | |
| Test Frequency (MHz) | Band (MHz) | Service | Modulation | Maximum Power (W) | Distance (m) | EC 60601-1-2 Test level (V/m) | Compliance Level (V/m) |
| 385 | 380 – 390 | TETRA 400 | Pulse modulation 18 Hz | 1.8 | 0.3 | 27 | 27 |
| 450 | 430 – 470 | GMRS 460, FRS 460 | FM ± 5 kHz deviation 1 kHz sine | 2 | 0.3 | 28 | 28 |
| 710<br>745<br>780 | 704 – 787 | LTE Band 13, 17 | Pulse modulation 217 Hz | 0.2 | 0.3 | 9 | 9 |
| 810<br>870<br>930 | 800 – 960 | GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5 | Pulse modulation 18 Hz | 2 | 0.3 | 28 | 28 |
| 1720<br>1845<br>1970 | 1700 – 1990 | GSM 1800; CDMA 1900; GSM 1900; UMTS; 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<br>5500<br>5785 | 5100 – 5800 | WLAN 802.11 a/n | Pulse modulation 217 Hz | 2 | | | |



## EMC Declaration

Table 4

| Guidance and manufacturer’s declaration - electromagnetic emissions | | |
|---|---|---|
| **Test frequency** | **Modulation** | **IMMUNITY TEST LEVEL** (A/m) |
| 30 kHz | CW | 8 |
| 134,2 kHz | Pulse modulation [a]<br>2,1 kHz | 65 [b] |
| 13,56 MHz | Pulse modulation [a]<br>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.

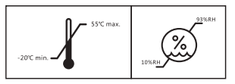


## Upper Arm Electronic
# Blood Pressure Monitor

## Model: U80N

Manufacturer
Shenzhen Urion Technology Co.,Ltd.
Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
MADE IN CHINA

EC REP Eu representative
WellKang Ltd (www.CE-Marking.eu)
Enterprise Hub, NW Business Complex, 1 Beraghmore Road, Derry, BT48 8SE,Northern Ireland

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