Thank you very much for selecting AccuraPulse Wrist Blood Pressure Monitor AP-WBPM810.

To use the monitor correctly and safely, please read the manual thoroughly.

Please keep this manual well in order to reference in future.

Questions/Warranty: Support@gurinproducts.com
Thank you for selecting AccuraPulse Wrist Blood Pressure Monitor (AP-WBPM810). The monitor features blood pressure measurement, pulse rate measurement and the result storage. The design provides you with two years of reliable service.

Readings taken by the AP-WBPM810 are equivalent to those obtained by a trained observer using the cuff and stethoscope auscultation method. This manual contains important safety and care information, and provides step by step instructions for using the product. Read the manual thoroughly before using the product.

Features:
- Systolic blood pressure
- Diastolic blood pressure
- Pulse rate
- 60 records per each user

Indications for Use

The AccuraPulse Blood Pressure Monitor digital monitor is intended for use in measuring blood pressure and heartbeat rate with wrist circumference ranging from 13.5cm to 21.5 cm (about 5⅓˝-8½˝). It is intended for adult indoor use only.

Measurement Principle

This product uses the Oscillometric Measuring Method to detect blood pressure. Before every measurement, the unit establishes a “zero point” equivalent to the atmospheric pressure. Then it starts inflating the cuff. Meanwhile, the unit detects pressure oscillation generated by beat-to-beat pulsatile, which is used to determine the systolic pressure and diastolic pressure as well as pulse rate. The device also compares the longest and the shortest intervals of detected pulse wave to with the average value, and then calculates the standard deviation. The monitor will light up a warning symbol when the calculated standard deviation is larger than or equal to 25%
**INTRODUCTION**

* This device is intended for adult use in homes only.
* The device is not suitable for use on neonatal patients, pregnant women, patients with implanted, electronic 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.
* The device is not suitable for measuring the blood pressure of children. Ask your doctor before using it on older children.
* The device is not intended for patient transport outside a healthcare facility.
* The device is not intended for public use.
* This device is intended for non-invasive measuring and monitoring of arterial blood pressure. It is not intended for use on extremities other than the wrist or for functions other than obtaining a blood pressure measurement.
* Do not confuse self-monitoring with self-diagnosis. This unit allows you to monitor your blood pressure. Do not begin or end medical treatment without asking a physician for treatment advice.
* If you are taking medication, consult your physician to determine the most appropriate time to measure your blood pressure. Never change a prescribed medication without consulting your physician.
* Do not take any therapeutic measures on the basis of a self measurement. Never alter the dose of a medicine prescribed by a doctor. Consult your doctor if you have any question about your blood pressure.
* When the device was used to measure patients who have common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation, the best result may occur with deviation. Please consult your physician about the result.
* 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.
* 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 and consecutive multiple measurements, the application of the cuff and its pressurization on any wrist where intravascular access or therapy, or an Arteriovenous (A-V) shunt, is present; infusing the cuff on the side of a mastectomy.
* Warning: Do not apply the cuff over a wound; otherwise it can cause further injury.
* 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 simultaneously-used monitoring ME equipment.
* On the rare occasion of a fault causing the cuff to remain fully inflated during measurement, open the cuff immediately. Prolonged high pressure (cuff pressure > 300 mmHg or constant pressure > 15 mmHg for more than 3 minutes) applied to the wrist may lead to an ecchymosis.
* Please check that operation of the device does not result in prolonged impairment of patient blood circulation.

**CAUTION**

* When measurement, please avoid compression or restriction of the connection tubing.
* The device cannot be used with HF surgical equipment at the same time.
* The ACCOMPANYING DOCUMENT shall disclose that the SPHYGMOMANOMETER was clinically investigated according to the requirements of ISO 81060-2:2013.
* To verify the calibration of the AUTOMATED SPHYGMOMANOMETER, please contact the manufacturer.
* This device is contraindicated for any female who may be suspected of, or is pregnant. Besides providing inaccurate readings, the effects of this device on the fetus are unknown.
* Too frequent and consecutive measurements could cause disturbances in blood circulation and injuries.
* This unit is not suitable for continuous monitoring during medical emergencies or operations. Otherwise, the patient’s wrist and fingers will become anaesthetic, swollen and even purple due to a lack of blood.
* When not in use, store the device in a dry room and protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on the storage case.
* This device may be used only for the purpose described in this booklet. The manufacturer cannot be held liable for damage caused by incorrect application.
* This device comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in this booklet.
* The maximum temperature that the applied part can be achieved is 42.5°C while the environmental temperature is 40°C.
* The equipment is not AP/APG equipment and not suitable for use in the presence of a flammable anesthetic mixture with air of with oxygen or nitrous oxide.
* Warning: No servicing/maintenance while the ME equipment is in use.
* The patient is an intended operator.
* The patient can measure data and change batteries under normal circumstances and maintain the device and its accessories according to the user manual.
* To avoid measurement errors, please avoid the condition of strong electromagnetic field radiated interference signal or electrical fast transient/burst signal.
* The blood pressure monitor and the cuff are suitable for use within the patient environment. If you are allergic to polyester, nylon or plastic, please don’t use this device.
* During use, the patient will be in contact with the cuff. The materials of the cuff have been tested and found to comply with requirements of ISO 10993-5:2009 and ISO 10993-10:2010. It will not cause any potential sensization or irritation reaction.
* If you experience discomfort during a measurement, such as pain in the wrist or other complaints, press the START/STOP button to release the air immediately from the cuff. Loosen the cuff and remove it from your wrist.
* If the cuff pressure reaches 40 kPa (300 mmHg), the unit will automatically deflate. Should the cuff not deflate when pressures reaches 40 kPa (300 mmHg), detach the cuff from the wrist and press the START/STOP button to stop inflation.
* Before use, make sure the device functions safely and is in proper working condition. Check the device, do not use the device if it is damaged in any way. The continuous use of a damaged unit may cause injury, improper results, or serious danger.
**CAUTION**

* Do not wash the cuff in a washing machine or dishwasher!
* The service life of the cuff may vary by the frequency of washing, skin condition, and storage state. The typical service life is 10000 times.
* It is recommended that the performance should be checked every 2 years and after maintenance and repair, by retesting at least the requirements in limits of the error of the cuff pressure indication and air leakage (testing at least at 50mmHg and 200mmHg).
* Please dispose of ACCESSORIES, detachable parts, and the ME EQUIPMENT according to the local guidelines.
* Manufacturer will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, etc., to assist to service personnel in parts repair.
* The service life of the cuff may vary by the frequency of washing, skin condition, and storage state. The typical service life is 10000 times.
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**LCD Display Signal**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SYS</strong></td>
<td>Systolic blood pressure</td>
<td>High blood pressure</td>
</tr>
<tr>
<td><strong>DIA</strong></td>
<td>Diastolic blood pressure</td>
<td>Low blood pressure</td>
</tr>
<tr>
<td><strong>mmHg</strong></td>
<td>mmHg</td>
<td>Measurement unit the blood pressure (1mmHg=0.133kPa)</td>
</tr>
<tr>
<td><strong>Motion indicator</strong></td>
<td>Motion may result in an inaccurate measurement</td>
<td></td>
</tr>
<tr>
<td><strong>Lo</strong></td>
<td>Low battery</td>
<td>Batteries are low and need to be replaced.</td>
</tr>
<tr>
<td><strong>User 1</strong></td>
<td>Start measurement and save the measuring results for user 1.</td>
<td></td>
</tr>
<tr>
<td><strong>User 2</strong></td>
<td>Start measurement and save the measuring results for user 2.</td>
<td></td>
</tr>
<tr>
<td><strong>Irregular heartbeat</strong></td>
<td>Blood pressure monitor is detecting an irregular heartbeat during measurement.</td>
<td></td>
</tr>
<tr>
<td><strong>Current time</strong></td>
<td>Year/Month/Day, Hour/Minute</td>
<td></td>
</tr>
<tr>
<td><strong>Blood pressure level indicator</strong></td>
<td>Indicate the blood pressure level</td>
<td></td>
</tr>
<tr>
<td><strong>Heartbeat</strong></td>
<td>Blood pressure monitor is detecting a heartbeat during measurement.</td>
<td></td>
</tr>
</tbody>
</table>
Monitor Components

Component list of pressure measuring system:
1. PCBA;
2. Air Pipe;
3. Pump;
4. Valve;
5. Cuff.

List
1) Wrist Blood Pressure Monitor AP-WBPM810
2) 2×AAA batteries
3) User manual

Installing and Replacing the Batteries

- Slide off the battery cover.
- Install the batteries by matching the correct polarity, as shown below. Always use the correct battery type (2 x AAA batteries).
- Replace the cover.

Replace the batteries whenever the below happen:
- ☢ +Lo shows
- Display is dim.
- Display does not light up

CAUTION
- Do not use new and used batteries together.
- Do not use different types of batteries together.
- Do not dispose the batteries in fire. Batteries may explode or leak.
- Remove batteries if the device is not likely to be used for some time.
- Worn batteries are harmful to the environment. Do not dispose with daily garbage.
- Remove the old batteries from the device following your local recycling guidelines.
**Setting Date, Time and Measurement Unit**

It is important to set the clock before using your blood pressure monitor, so that a time stamp can be assigned to each record that is stored in the memory. (year: 2014—2054, time format: 24 H/12 H)

1. When the monitor is off, hold pressing “O” button for about 3 seconds to set the time format.

2. Press the “O” button to change the [TIME FORMAT] between 12 hours and 24 hours.

3. When you get the right time format, press “O” button to confirm your selection and it will turn to the next step.

4. Repeat steps 2 and 3 to confirm [HOUR] and [MINUTE].

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

6. After confirming the measurement unit, the LCD will display “dOnE” and then turn off.
Select the User ID

1. When the blood pressure monitor is off, press and hold "button until the user ID blinks. Then press " button to change the user ID between user 1 and user 2. Press " button to confirm your selection.

2. After confirming the user ID, the LCD will turn off. Then you can start your measurement now.

Tie the Cuff

1. Remove all accessories (watch, bracelet, etc) from your wrist. If your physician has diagnosed you with poor circulation in your wrist, use the other one.
2. Roll or push up your sleeve to expose the skin.
3. Apply the cuff to your wrist with your palm facing up.
4. Position the edge of the cuff about 1cm~1.5cm from wrist joints.
5. Fasten the wrist cuff around your wrist, leaving no extra room between the cuff and your skin. If the cuff is too loose, the measurement will not be accurate.
6. Sit comfortably with your tested wrist resting on a flat surface. Place your elbow on a table so that the cuff is at the same level as your heart. Turn your palm upwards. Sit upright in a chair, and take 5-6 deep breaths.
7. Helpful tips for patients, especially for patients with Hypertension:
   • Rest for 5 minutes before first measuring.
   • Wait at least 3 minutes between measurements. This allows your blood circulation to recover.
   • Take the measurement in a silent room.
   • The patient must relax as much as possible and do not move and talk during the measurement procedure.
   • The cuff should maintain at the same level as the right atrium of the heart.
   • Please sit comfortably. Do not cross your legs and keep your feet flat on the ground.
   • Keep your back against the backrest of the chair.
   • For a meaningful comparison, try to measure under similar conditions. For example, take daily measurements at approximately the same time, on the same wrist, or as directed by a physician.
**Start the Measurement**

1. When the monitor is off, press “button to turn on the monitor, and it will finish the whole measurement. (Take User 1 for example.)

   LCD display

   Adjust the zero.

   Inflating and measuring.

   Display and save the result.

2. Press “button to power off, otherwise it will turn off within 1 minute.

   Tips: Maximum 60 records are both for User 1 and User 2.

**Recall the Records**

1. When the monitor is off, press “ button to show the average value of the latest three measurement records. (Take User 1 for example.)

2. Press “ button or “ button to get the record you want.

   The date and time will display alternately.

   The corresponding time is 9:10.

   The corresponding date is May 11th.
3. If you want to check the other user’s measurement records, please press “ ” button to turn off the blood pressure monitor. Then press and hold “ ” button to enter the selecting user mode, press “ ” again to change the user, when the desired user ID blinks, press “ ” button to confirm. Then press “ ” button to check the records of the selected user.

**CAUTION**

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

---

**Delete the Records**

If you did not get the correct measurement, you can delete all results by following steps below. (Take User 1 for example.)

1. In the memory mode, hold pressing “ ” button for 3 seconds, the flash display “User ID+ dEL All” will show.

2. Press “ ” to confirm deleting, the LCD displays “dEL dOnE” and the monitor will turn off.

   Note: To exit out of delete mode without deleting any records, press button before pressing “ ” to confirm any delete commands.

3. If there is no record, the right display will show.
**Maintenance**

In order to get the best performance, please follow the instructions below.

- Put in a dry place and avoid the sunshine
- Avoid touching water, clean it with a dry cloth in case
- Avoid intense shaking and collisions
- Avoid dusty and unstable-temperature environment
- Using wet cloths to remove dirt
- Avoid washing the cuff

**Tips for Measurement**

Measurements may be inaccurate if taken in the following circumstances.

- Within 1 hour after dinner or drinking
- Immediate measurement after tea, coffee, smoking
- Within 20 minutes after taking a bath
- When talking or moving your fingers
- In a very cold environment
- When you want to discharge urine

**CAUTION**

- If you have any problems with this device, such as setting up, maintaining or using, please contact the SERVICE PERSONNEL of AccuraPulse. Don’t open or repair the device by yourself.
- Please report to AccuraPulse if any unexpected operation or events occur.
Why does my blood pressure fluctuate throughout the day?

1. Individual blood pressure varies multiple times everyday. It is also affected by the way you tie your cuff and your measurement position, so please take the measurement under the same conditions.

2. If the person takes medicine, the pressure will vary more.

3. Wait at least 3 minutes for another measurement.

Why do I get a different blood pressure at home compared to the hospital?

The blood pressure is different even throughout the day due to weather, emotion, exercise etc. Also, there is the "white coat" effect, which means blood pressure usually increases in clinical settings.

Is the result the same if measuring on the right wrist?

It is ok for both wrists, but there will be some different results for different people. We suggest you measure the same wrist every time.
This section includes a list of error messages and frequently asked questions for problems you may encounter with your wrist blood pressure monitor. If the products not operating as you think it should, check here before arranging for servicing.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SYMPTOM</th>
<th>CHECK THIS</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power</td>
<td>Display is dim or will not light up.</td>
<td>Batteries are exhausted.</td>
<td>Replace with new batteries.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Batteries are inserted incorrectly.</td>
<td>Insert the batteries correctly.</td>
</tr>
<tr>
<td>Low batteries</td>
<td><img src="image" alt="Lo" /> Show on the display</td>
<td>Batteries are low.</td>
<td>Replace with new batteries.</td>
</tr>
<tr>
<td>Error message</td>
<td>Err 1 shows</td>
<td>The cuff is too loose.</td>
<td>Refasten the cuff and then measure again.</td>
</tr>
<tr>
<td></td>
<td>Err 2 shows</td>
<td>The cuff is very tight.</td>
<td>Refasten the cuff and then measure again.</td>
</tr>
<tr>
<td></td>
<td>Err 3 shows</td>
<td>The pressure of the cuff is excess.</td>
<td>Relax for a moment and then measure again.</td>
</tr>
<tr>
<td></td>
<td>EExx, shows on the display</td>
<td>A calibration error occurred.</td>
<td>Retake the measurement. If the problem persists, contact the retailer or our customer service department for further assistance. Refer to the warranty for contact information and return instructions.</td>
</tr>
</tbody>
</table>

**Power supply**
- Battery powered mode: 2*AAA batteries (3V DC)

**Display mode**
- Blue LCD with backlight V.A.35mm×46mm

**Measurement mode**
- Oscillographic testing mode

**Measurement range**
- Rated cuff pressure: 0mmHg~299mmHg (0kPa ~ 39.9kPa)
- Measurement pressure:
  - SYS: 60mmHg~230mmHg (8.0kPa~30.7kPa)
  - DIA: 40mmHg~130mmHg (5.3kPa~17.3kPa)
- Pulse value: (40-199)beat/minute

**Accuracy**
- Pressure: 5°C-40°C within±3mmHg(0.4kPa)
- Pulse value: ±5%

**Normal working condition**
- Temperature: 5°C to 40°C
- Relative humidity: ≤85%RH
- Atmospheric pressure: 86kPa to 106kPa

**Storage & transportation condition**
- Temperature: -20°C to 60°C
- Relative humidity: 10%RH to 93%RH
- Atmospheric pressure: 50kPa to 106kPa

**Measurement perimeter of the wrist**
- About 13.5cm-21.5cm

**Weight**
- Approx.106g (Excluding the batteries)

**External dimensions**
- Approx.61mmx88mmx27.5mm (Exclude the cuff)

**Attachment**
- 2*AAA batteries, user manual

**Mode of operation**
- Continuous operation

**Degree of protection**
- IP22: The first number 2: Protected against solid foreign objects of 12.5mm Φ and greater. The second number: Protected against vertically falling water drops when enclosure tilted up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.

**Software version**
- A10

**Device classification**
- Internally Powered ME Equipment

**WARNING:** No modification of this equipment is allowed.
**Contact Information**

For more information about our products, please visit www.gurinproducts.com.

Distributed By: Gurin Products LLC
2522 Chambers Road, Suite 100 Tustin, CA-92780 USA
Questions/Warranty: Support@gurinproducts.com

**FCC Statement**

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.

**Complied Standards List**

<table>
<thead>
<tr>
<th>Risk management</th>
<th>ISO/EN 14971:2012 Medical devices — Application of risk management to medical devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labeling</td>
<td>ISO/EN 15223-1:2012 Medical devices. Symbols to be used with medical device labels, labelling and information to be supplied. General requirements</td>
</tr>
<tr>
<td>User manual</td>
<td>EN 1041:2008 Information supplied by the manufacturer of medical devices</td>
</tr>
<tr>
<td></td>
<td>IEC 60601-1-11 Medical electrical equipment - Part 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</td>
</tr>
<tr>
<td>Usability</td>
<td>IEC 62366 Medical devices - Application of usability engineering to medical devices (IEC 62366:2007)</td>
</tr>
<tr>
<td></td>
<td>IEC 60601-1-6 Medical electrical equipment - Part 1 - 6: General requirements for basic safety and essential performance - collateral standard : Usability</td>
</tr>
</tbody>
</table>
EMC GUIDANCE

EMC Guidance

1) * This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.
2) * Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
3) * Caution: This unit has been thoroughly tested and inspected to assure proper performance and operation!
4) * Caution: This machine should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, this machine should be observed to verify normal operation in the configuration in which it will be used.

Guidance and manufacturer’s declaration – electromagnetic emissions

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

<table>
<thead>
<tr>
<th>Emissions test</th>
<th>Compliance</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPR 11</td>
<td>Group 1</td>
<td>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.</td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Class B</td>
<td>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.</td>
</tr>
<tr>
<td>Voltage fluctuations/ flicker emissions IEC 61000-3-3</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

NOTE   UT is the a.c. mains voltage prior to application of the test level.

Table 2 Guidance and MANUFACTURER’s declaration – electromagnetic IMMUNITY – for all ME EQUIPMENT and ME SYSTEMS

<table>
<thead>
<tr>
<th>Guidance and manufacturer’s declaration – electromagnetic immunity</th>
</tr>
</thead>
<tbody>
<tr>
<td>The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMMUNITY test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD) IEC 61000-4-2</td>
<td>±6 kV contact ±8 kV air</td>
<td>±6 kV contact ±8 kV air</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>Electrical fast transient/burst IEC 61000-4-4</td>
<td>±2 kV for power supply lines ±1 kV for input/output lines</td>
<td>Not applicable</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Surge IEC 61000-4-5</td>
<td>±1 kV line(s) to line(s) ±2 kV line(s) to earth</td>
<td>Not applicable</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11</td>
<td>&lt;5% Ur (&gt;95% dip in Ur ) for 0.5 cycle 40% Ur (60% dip in Ur ) for 5 cycles 70% Ur (30% dip in Ur ) for 25 cycles &lt;5% Ut (&gt;95% dip in Ut ) for 5 s</td>
<td>Not applicable</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.</td>
</tr>
<tr>
<td>Power frequency (50/60Hz) magnetic field IEC 61000-4-8</td>
<td>3A/m</td>
<td>3A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
</tbody>
</table>
### Table 4 Guidance and MANUFACTURER’s declaration – electromagnetic IMMUNITY – for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

<table>
<thead>
<tr>
<th>IMMUNITY test</th>
<th>IEC 60601 TEST LEVEL</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 Vrms</td>
<td>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.</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC 61000-4-3</td>
<td>3 V/m</td>
<td>3 V/m</td>
</tr>
</tbody>
</table>

#### Electromagnetic environment - guidance

- **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.

#### Recommended separation distance

**Recommended separation distance**

\[
d = 1.2 \sqrt{P} \]

- \( d = 1.2 \sqrt{P} \) 80 MHz to 800 MHz
- \( d = 2.3 \sqrt{P} \) 800 MHz to 2.5 GHz

where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and \( d \) is the recommended separation distance in metres (m).

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range.

Interference may occur in the vicinity of equipment marked with the following symbol:

#### NOTE

- **NOTE 1** At 80 MHz and 800 MHz, the higher frequency range applies.
- **NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

### Table 6 Recommended separation distances between portable and mobile RF communications equipment and the ME EQUIPMENT or ME SYSTEM – for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter (W)</th>
<th>Separation distance according to frequency of transmitter (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kHz to 80 MHz</td>
<td>( d = 1.2 \sqrt{P} )</td>
</tr>
<tr>
<td>80 MHz to 800 MHz</td>
<td>( d = 1.2 \sqrt{P} )</td>
</tr>
<tr>
<td>800 MHz to 2.5 GHz</td>
<td>( d = 2.3 \sqrt{P} )</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \( d \) in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1** At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.