Oxygen saturation shall not be lower than 94%. If the measured value of oxygen saturation is lower is an important indicator of the oxygen condition in the human body. In general, the normal values of circulation. The oxygen saturation of arterial blood in a normal human body is 98%. Oxygen saturation

OVERVIEW

The degree of protection against harmful ingress of water and particulate matter

PRODUCT ACCESSORIES

1. Two AA batteries.
2. One user's manual.

Symbol Conventions

Symbol Description
\%SpO2 Type-BI applied part
Caution: Please see this manual
Symbol of oxygen saturation
Symbol of pulse rate
No \%SpO2 alarms
Consult the instructions for use
IP22 The degree of protection against harmful ingress of water and particulate matter

When end-users abandon this product, they must send the product to the collection place for recycling.

OPERATION GUIDE

Stick one finger completely into the measuring parts of the Oximeter, keep the fingertip surface upward, and release the clip. Then press the power button to power on the Oximeter.

If you do not yet completely insert your finger into the cavity, the measurement result may be incorrect.

Do not vibrate your finger during measurement. Preferably, ensure that your body does not move. After the readings become stable, read the measured value of oxygen saturation and the pulse rate on the screen.

NOTE: The Oximeter will automatically shut down 10 seconds later after your finger leaves away.

REPLACING THE BATTERIES

Replace the batteries when the battery capacity is insufficient and the symbol flickers on the screen. Open the battery cover with your fingers, you can replace the batteries according to the correct battery polarity.

CLEANING

Power off the instrument and remove the batteries before cleaning. Ensure that the appearance of the instrument is neat, dust-free, and dirt-free. Clean the outer surface of the instrument (including the LCD screen) using 75% medical alcohol and a piece of soft cloth. Caution: Avoid liquid flowing into the instrument during cleaning. Caution: Do not immerse any part of the instrument into any liquid.

DISINFECTION

Before measurement with the instrument, wipe the rubber finger pad using a piece of dry soft cloth dipped with 75% medical alcohol. Clean the finger to be measured using the medical alcohol for disinfection purposes before and after using.

Do not disinfect the instrument by means of high-temperature/high-pressure or gas disinfection.

TECHNICAL SPECIFICATIONS

Dimensions: 58 mm (Width) x 34 mm (Depth) x 35 mm (Height)
Weight: 29 g [with batteries]
Peak wavelength range of the light emitted from the probe: red light 660 nm ± 3; infrared light 905 nm ± 5.
3. Maximum optical output power of the probe: 1.2 mW for infrared light (905 nm).
4. Manufacturing date: see the label
5. Normal working condition

Parameter Value
Oxygen saturation Upper limit: 100 Lower limit: 9
Pulse rate Upper limit: 130 Lower limit: 50
Alert condition The actual measured value goes beyond the preset alert parameter range, the Oximeter gives an alert sound.

7. Technical parameters

Parameter Value
Display range Oxygen saturation 35% to 100%
Pulse rate 25 bpm to 250 bpm
Resolution Oxygen saturation 1%
Pulse rate 1 bpm
Measurement precision Oxygen saturation ±2% (70% to 100%) No requirement (≤ 69%)
Pulse rate ±2 bpm
Alert range Oxygen saturation Upper limit: 50% to 100% Lower limit: 90% to 100%
Pulse rate Upper limit: 25 bpm to 250 bpm Lower limit: 25 bpm to 250 bpm
Alert error Oxygen saturation ±1% of the preset value
Pulse rate ±1% of the preset value
**SAFETY TYPE**

Anti-electric-shock type: internal power supply device  
Anti-electric-shock degree: Type BF applied part  
Running mode: continuous working  
Waterproof grade: IP22

**STORAGE AND TRANSPORTATION**

Temperature: –10°C - 50°C (–14° - 122°F)  
Relative humidity: 10%–93% (no condensation)  
Atmospheric pressure: 50kPa–106 kPa.

**ELECTROMAGNETIC COMPATIBILITY (EMC) TABLES**

<table>
<thead>
<tr>
<th>Guidance and manufacturer’s declaration – electromagnetic immunity</th>
<th></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>
<td></td>
</tr>
<tr>
<td><strong>Immunity test</strong></td>
<td><strong>IEC 60601 test level</strong></td>
</tr>
<tr>
<td><strong>Electronic discharge (ESD)</strong></td>
<td>±1 kV contact</td>
</tr>
<tr>
<td></td>
<td>±8kV air</td>
</tr>
<tr>
<td><strong>Electrical fast transient/ burst</strong></td>
<td>±1 kV Input/output line</td>
</tr>
<tr>
<td></td>
<td>±1 kV Differential mode voltage</td>
</tr>
<tr>
<td></td>
<td>±2 kV Common mode voltage</td>
</tr>
<tr>
<td><strong>Surge</strong></td>
<td>±5 kV 4/10μs +2kV dip in UT for 0.5 cycle</td>
</tr>
<tr>
<td></td>
<td>40% UT 100% dip in UT for 5 cycles</td>
</tr>
<tr>
<td></td>
<td>70% UT 30% dip in UT for 25 cycles</td>
</tr>
<tr>
<td></td>
<td>±5% UT ±15% dip in UT for 5 sec</td>
</tr>
<tr>
<td><strong>Voltage dips, short interruptions and voltage variations on power supply input lines</strong></td>
<td>±5% UT ±15% dip in UT for 0.5 cycle</td>
</tr>
<tr>
<td></td>
<td>40% UT 100% dip in UT for 5 cycles</td>
</tr>
<tr>
<td></td>
<td>70% UT 30% dip in UT for 25 cycles</td>
</tr>
<tr>
<td></td>
<td>±5% UT ±15% dip in UT for 5 sec</td>
</tr>
<tr>
<td><strong>Power frequency (50Hz/60Hz) magnetic field</strong></td>
<td>≤3.0 μT</td>
</tr>
<tr>
<td></td>
<td>≤3.0 mT</td>
</tr>
<tr>
<td><strong>NOTE:</strong> UT is the a.c. mains voltage prior to application of the test level.</td>
<td></td>
</tr>
</tbody>
</table>

**Guidance and manufacturer’s declaration – electromagnetic immunity**

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><strong>Immunity test</strong></th>
<th><strong>IEC 60601 test level</strong></th>
<th><strong>Compliance level</strong></th>
<th><strong>Electromagnetic environment – guidance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Radiated RF</strong></td>
<td>3 V/m 80 MHz to 2.5 GHz</td>
<td>3 V/m 80 MHz to 2.5 GHz</td>
<td>3 V/m 80 MHz to 2.5 GHz</td>
</tr>
</tbody>
</table>
| **Recommended separation distance** | d = 1.2 √2 P 80 MHz to 800 MHz  
|  | d = 1.5 √2 P 800 MHz to 2.5 GHz |  |  |
| **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. |  |  |

**Recommended separation distances between portable and mobile RF communications equipment and the device.**

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Maximum output power of transmitter (W)</th>
<th>Separation distance according to frequency of transmitter (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 MHz to 800 MHz</td>
<td>800 MHz to 2.5 GHz</td>
</tr>
<tr>
<td>&lt;12.5 MHz</td>
<td>&gt;12.5 MHz</td>
</tr>
<tr>
<td>0.01</td>
<td>/</td>
</tr>
<tr>
<td>0.1</td>
<td>/</td>
</tr>
<tr>
<td>1</td>
<td>/</td>
</tr>
<tr>
<td>10</td>
<td>/</td>
</tr>
<tr>
<td>100</td>
<td>/</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, there commended separation distance d in meter(s) 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 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:

![Symbol](image)

**LIMITED LIFETIME WARRANTY**

Your Medtronic Fingertip Blood Pressure Monitor is backed by a limited lifetime manufacturer’s warranty. Medtronic Therapeutics will repair or replace your device at any time should it fail due to a defect in material or workmanship, subject to the certain limitations. This limited warranty does not cover any damage that results from unauthorized or improper use, service, or repair. Further, it does not cover damage caused by accident, impact, negligence, or normal wear and tear. Should you discover your Medtronic Fingertip Blood Pressure Monitor is not functioning properly, please send your device to our service center for evaluation. If your product cannot be repaired or serviced we will reserve the right to change it for a similar or newer model.

Please note that a flat rate of $35.00 will be charged to cover a service evaluation fee and return shipping of your device. All warranty claims must be accompanied by a copy of your proof of purchase from an authorized retailer. Please send your device, proof of purchase, and a check or money order in the amount of $35.00 made out to Medtronic Therapeutics to:

Medtronic Therapeutics Service Center  
2069 Taff Street  
Hollywood, FL 33029  

**Medtronic Therapeutics Service Center**  
2069 Taff Street  
Hollywood, FL 33029

**NOTE 1:** A limited warranty does not apply to all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.