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Operation Manual
Ring Pulse Oximeter
OXY2000C

SMS MULTITECH INDIA PVT LIMITED
Release date: 09/01/2016   Version: 2.0

Product Description

BM2000GRing Pulse Meteris an important and common device to check pulse oxygen saturation (SpO2) and pulse rate (PR). It's a small, compact, simple, reliable and durable physiological monitoring device.It includesthe mainboard,a LCD display and a lithium battery. It can be used in hospitals and health care organizations, oxygen bars and during family nursing and physical activities like sports(you can use it before or after the sport, but it is not recommended to use it during the sport).

Intended Use

The pulse oximeter is intended for spot checking of adult's pulse oxygen saturation and pulse rate in a clinical environment. This medical device can be reused, but it is not designed for continuously monitoring. It is intended for use in clinic section office, out-patient department, and sickroom. It can also be used in the recovery and healthcare organizations as well as in the community medical treatments.

Measurements

SpO$_2$ is a measure of the oxygen saturation level in the arterial blood. HIGHER OXYGEN SATURATION INDICATES MORE OXYGEN IN THE ARTERIAL BLOOD. SpO2 is always above 94% for normal people.

PR bpm : Pulse rate (PR) indicates the number of pulses per minute . This parameter is useful for assessing overall fitness , as well as exertion levels at a particular moment in time. A HEALTHY PERSON HAS A PULSE RATE 72.

Safety Information

- The person should take adequate training before using the product.
- The product is intended only as an adjunct in patient assessment. It must be used in addition with clinical signs and symptoms. It is not intended to be used for treatment purposes.
- When using the product together with the electrical surgery equipment, the user should pay attention to and guarantee safety of the patient being treated.
- EXPLOSION HAZARD: Do not use the product in the presence of flammable anesthetics, explosive substances, vapors or liquids.
- Make sure not to use the product during MRI (magnetic resonance imaging) scanning or CT (Computed Tomography)environmentbecause induced current could potentially cause burns.
- No modification of this product is allowed.It should be maintained by professional maintenance personnelwho are approved by manufacturers.
- The product is common seal product. Keep its surface dry and clean, and prevent any liquid from infiltrating it.
- The product is fragile. Avoid pressure, knocks, strong vibrations or any other mechanical damage. Hold it carefully and lightly. If it is not in use, it should be appropriately placed.
- For disposal of the product, follow local regulations. Do not dispose randomly.
- Don't dismantle and replace the battery without authorization. When the battery is low or it has not been used for a long time, please charge the battery in time but protect against overcharging.

Product Features

- Simple and convenient to use, simple one-touch operation.
- Light weight and convenient to carry.
- Low energy consumption, original one 3.7V lithium battery that can continuously work for 6 hours.
- Notification for low voltage on the screen when there's low battery, may influence the normal working.
- Will automatically power off when there's no signal generated.
- No need of daily maintenance and calibration .
- Charging facility is available.

Display Introduction

Figure 1

Measuring Steps

- Untie the Velcro tape, press the power button, and sensor will light up. Put your finger through Velcro strap, close to the sensor receiving tube and a transmitting tube. Ensure that the finger completely covers the oxygen receiving tube and the transmitting tube. The best measuring position is the index finger joining the first section. Adjust the Velcro tape to the most suitable firmness and finally fasten the Velcro tape.
- Wait for a few moments till the measurement value is stable and the SpO2 value and PR value can be steadily read on the screen.
- In the process of use, your finger and body should avoid motion.
- When the finger leaves the pulse oxymeter or no signal is generated, the display will enter standby state in a short time, and the pulse oxymeter will automatically shutdown after 10 seconds.

Charging interface   Power Buttom

Figure 2   **Figure 3**

NOTE:

- Don't put the product on extremities with arterial catheter or venous syringe.
- Cover the sensor with opaque material under the condition of strong light. Failure to do so will result in inaccurate measurement.
- Try to keep the patient still (specially the arm) and avoid excessive motion on the part suffering.
- Don't use the product on patients whose pulse rate is lower than 30bpm, which may cause incorrect results.
- Make sure no contamination or scar exists in the site where the product is placed. Otherwise, the measured result may be incorrect because the signal received by the sensor is affected.
- When used on different patients, the product is prone to cross contamination, which should be prevented and controlled by the user. Disinfection is recommended before using the product on other patients.
- Don't perform SpO2 monitoring and NIBP measurements on the same arm simultaneously. Obstruction of blood flow during NIBP measurements may adversely affect the reading of the SpO2 value.
- Don't allow the SpO2 sensor to contact with patient's skin if the skin's temperature is more 410C.
- Shock, anemia, hypothermia and the application of vasoconstriction drug may decrease arteria blood flow to an unmeasurable level.
- Pigment, or deep color (for example: nail polish, artificial nails, dye or pigmented cream) may cause inaccurate measurements.

Bluetooth Communication Function

OXY2000c ring pulse oximeter is with the Bluetooth communication function. It can send data to an intelligent terminal and computer (related software has been installed) with a communication function.

Note:

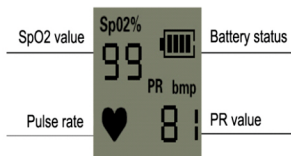The usage of Bluetooth communication software which is installed in the computer or intelligent terminal is written into the "APP operation guide."
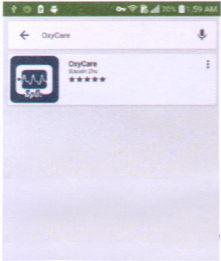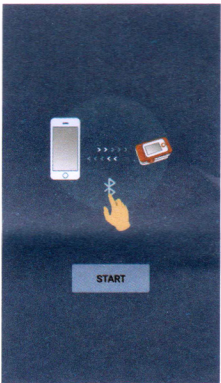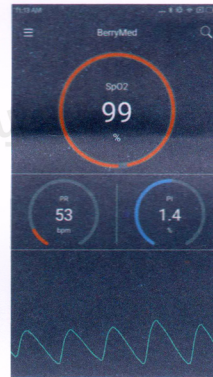
1. Search **"OxyCare"** app
   on the Google play.

2. Launch the app.

3. Search **Oximeters,**
   Tap to select the Oximeter found.

Please chose an Oximeter

* BerryMed
  8C:DE:52:C5:A3:30

RESEARCH   CANCEL
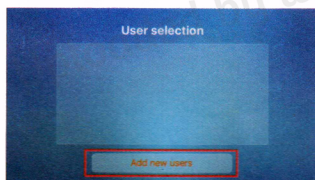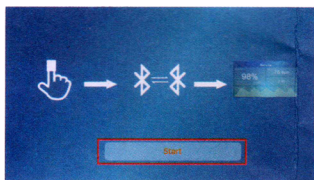
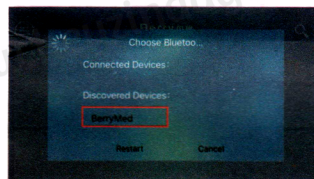4. Display the results on the screen.

5. Records Graph & Export.
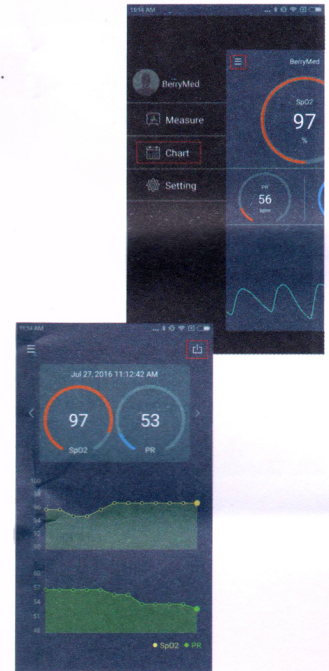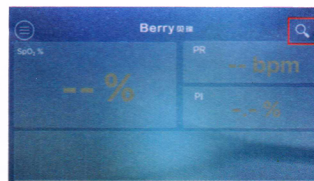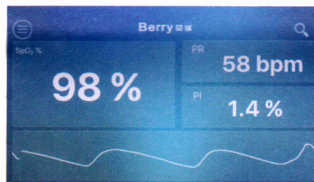
App Store

1. Search "OxyCare" app on the Apple App Store.

2.Launch the app, Add a user.
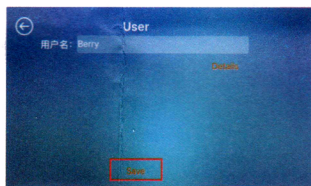
3. 3.Search Oximeters, Tap to select the Oximeter found.

4. Display the results on the screen.

SpO₂ %	PR	
98 %	58 bpm	
	PI	1.4 %

5. Records Graph & Export.