










## Introduction


Rossmax Fingertip Pulse Oximeter SB200 is used to measure arterial oxygen saturation (% SpO2) of hemoglobin and pulse rate, an important indicator of your respiratory function. It is non-invasive device intended for spot-check of adult and pediatric whose age is over 3 at home, hospital and clinics.

 Attention: Consult the accompanying documents. Please read this manual carefully before use. Please be sure to keep this manual.



## ACT (Artery Check Technology)

ACT processes the SpO2 signal and determines the elasticity of blood vessel based on the derived wave form. It further classifies the vascular status into 6 levels and presents the result in an intuitive graphical interface.

|  |   |
|--|---|
|    | Artery and blood circulation in good condition            |
|    | Artery and blood circulation in good to average condition |
|    | Artery and blood circulation in average condition         |
|   | Artery and blood circulation in below average condition   |
|  | Artery and blood circulation in poor condition            |
|  | Artery and blood circulation in critical condition        |

 Note: the classification of artery and blood circulation condition is for reference only, Please consult with your physician for further advice.

## Error code for your reference

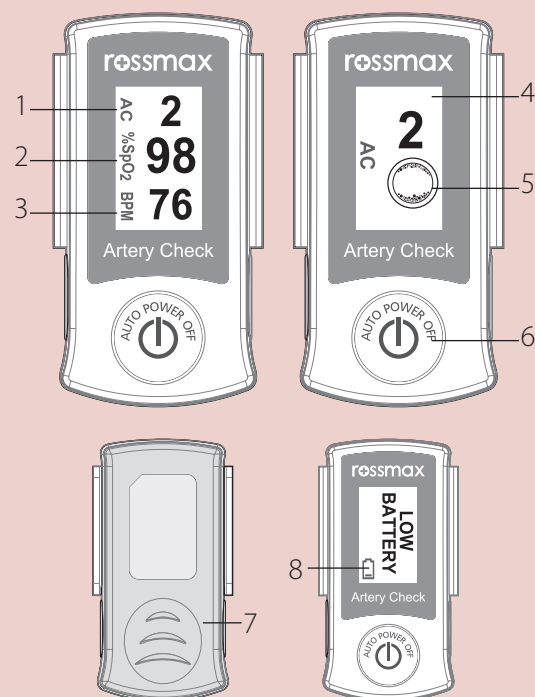
|  |   |
|--|---|
|  | Sensor cannot be detected, return the device to your local distributor or service centre. |
|  | Signals cannot be detected, turn the device off and measure again.                        |

### AC ERROR:

AC ERROR

Weak signal for artery check, turn the device off and measure again.

## Name/ Functions of each part



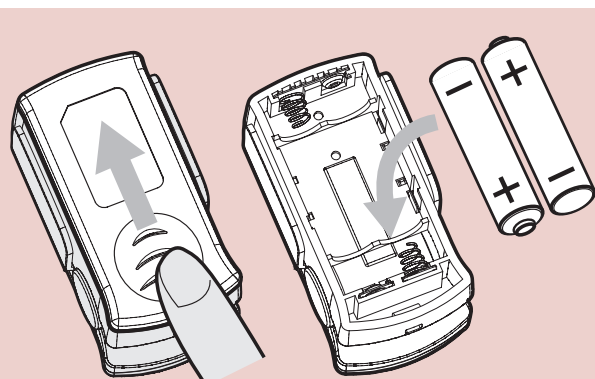
1. Artery check icon
2. SpO2 icon
3. Pulse rate icon
4. OLED display
5. Artery check and blood circulation icon
6. Power On/Off Button
7. Battery compartment
8. Weak Battery Mark

## Installing Batteries

1. Use thumb to slide battery cover out
2. Insert or replace 2 "AAA" sized batteries down with the correct electrical polarity.

You need to replace the batteries when

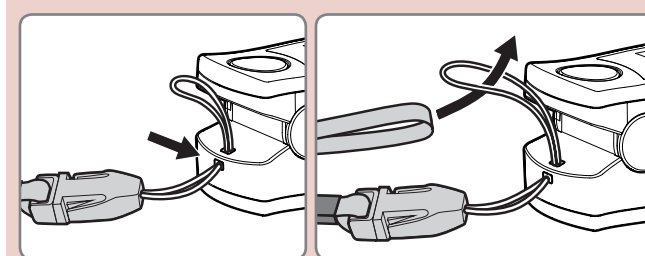
1. LOW BATTERY appears on display
2. The function button is pressed and nothing appears on display



Caution: Batteries may leak or explode if used or disposed of improperly. Remove batteries if the device will be stored for long time. Do not use different types or brands of batteries at the same time. Do not mix fully charged and partially charged batteries at the same time.

## Attaching the lanyard


1. Insert the narrow end of the lanyard through the holder.
2. Draw the other end of the lanyard through the loop at the narrow end and tighten.



## How to use


1. Open the clip; press the Power On/Off button as ❶.
2. Information of software version appears and then finger invitation icon appears. Insert one finger(left hand middle finger is recommended), nail side up, into the finger opening of the pulse oximeter as ❷.

Note: If no finger insert, the device will auto shut off after 10 seconds

3. The display shows , pulse oximeter begins its measurement as ❸.

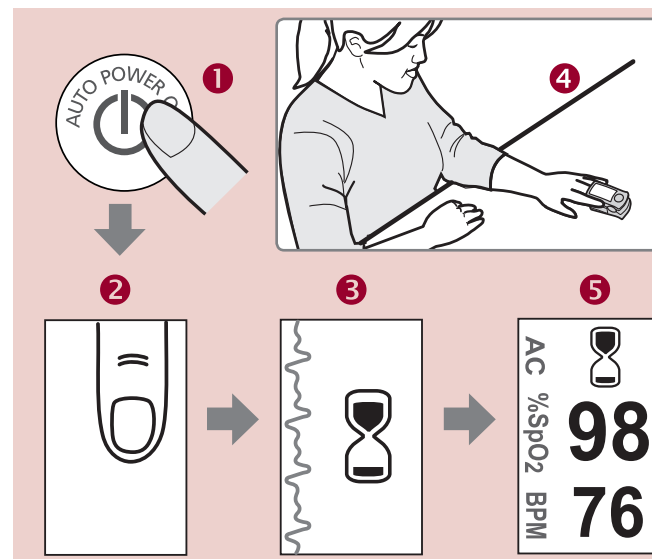
Note: Make sure the finger is lying flat. Do not shake and keep body steady during measurement as ❹.

4. Your SpO2 and pulse rate values will appear on the screen after few seconds and artery check result will appear on screen after 30 -60 seconds as ❺.

Note: 1. Don't remove your finger until the timer icon  is no longer on the screen.

2. If artery check result cannot be detected, "- - -" will appear on the screen.

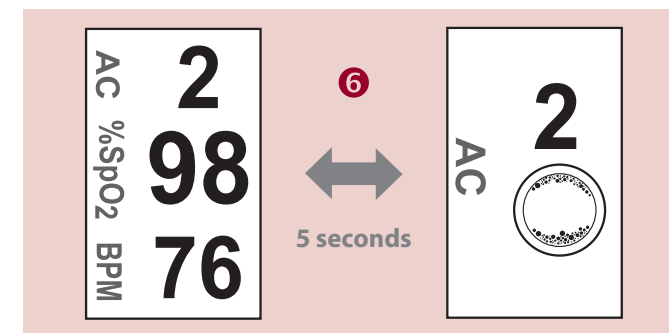
3. While SpO2 is lower than 90, device will sound the warning and the reading will flicker.



5. When measurement is completed, the 3 parameters (SpO2, pulse rate and artery check) display and artery check display alternate automatically every 5 seconds as ❻.

6. Press button shortly to reverse the display upside down before artery check is done.

7. Press button slightly longer to turn the device off.



 Note:

1. The SpO2 sensor and photoelectric receiving tube should be arranged in a way with the subject's arteriole in a position there between.
2. Make sure the optical path is free from any optical obstacles like rubberized fabric.
3. Excessive ambient light may affect the measuring result. It includes fluorescent lamp, dual ruby light, infrared heater, direct sunlight and etc.
4. Strenuous action of the subject or extreme electrosurgical interference may also affect the accuracy.

## Cautionary Notes

- This device is to be operated by trained personnel only.
- This device has no audible and it intended only for spot-checking, but not medical result evaluation.
- This device is designed to determine the percentage of arterial oxygen saturation of functional hemoglobin. Factors that may degrade pulse oximeter performance or affect the accuracy of the measurement include the following:
  - Do not apply the pulse oximeter on the same arm as a blood pressure cuff, arterial catheter or infusion line(s)
  - Excessive light, such as sunlight or direct home lighting.
  - Not steady at the site of application (e.g. trembling)
  - Moisture in the device
  - Improperly applied device
  - Finger is too large or too small to fit into the device.
  - Poor pulse quality
  - Venous pulsations
  - Anemia or low hemoglobin concentrations.
  - Cardiogreen and other intravascular dyes
  - Carboxyhemoglobin
  - Methemoglobin
  - Dysfunctional hemoglobin
  - Artificial nails or fingernail polish
  - On fingers with anatomical changes, oedemas, scars or burns.
- Using the device for long periods may cause pain for people with circulatory disorders. Reposition the device at least once every 4 hours to allow the patient's skin to breath and to check patient's condition regularly.
- Do not use the device near flammable or explosive gas mixtures.