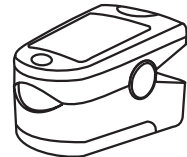


PULSE OXIMETER

Manual



Description:

Pulse oximeter, based on digital blood oxygen technology, using advanced DSP algorithm can reduce the impact of motion artifacts and improve the measurement accuracy in the case of weak perfusion.

Product characteristics:

1. The products are easy to use.
2. The products are small volume, light weight (the weight including the total weight of the battery is about 50 g), easy to carry.
3. The product has low power consumption and two “ AAA ” batteries can be used continuously for 30 hours.
4. When the battery voltage is too low and may affect normal use, the visual window will have a low voltage warning indication.
5. When no signal is generated, the product automatically shuts down after 8 seconds.
6. The products are suitable for internal and external surgery, anesthesiology, pediatrics, emergency room and other clinical as well as oxygen bar, community medical, family, exercise health care (used before and after exercise, not recommended during exercise), outdoor activities.

1

7. No routine maintenance and calibration required for replacement of batteries.

Technical parameters:

1. display format: LCD display: pulse intensity :16-segment bar diagram shows that the higher the pulse is stronger; battery voltage low indication: LCD symbol
2. power requirements :2 sections 7(AAA)1.5 V alkaline battery, voltage range :2.7 V~3.3 continuous use :100 h
3. working current :<10mA.
4. oxygen saturation parameter description: measurement range :50%~99%(resolution 1%) accuracy :75%~99%:2%; 50%~75%:±3%
5. pulse parameter description measurement range :30 bpm ~240 bpm (resolution 1) accuracy :2% or ±2 bpm take large value
6. weak perfusion measurement performance: Blood oxygen and pulse values can be correctly displayed when pulse filling is greater than 0.6%
7. ability to resist natural light interference: the deflection of the measurement value of oxygen in indoor natural light and existing lighting source is less than 1% ± compared with the measured value in dark room condition.

2

8. ability to resist artificial light interference: the blood oxygen saturation and pulse value can be correctly measured under the test conditions of pulse oxygen simulator.

Usage:

1. Load two AAA batteries and cover the battery cover according to positive and negative identification of the battery bin.
2. As shown below, the clip is pinched and the finger must be inserted with the nail up.
3. Insert the finger into the rubber hole (the finger is best fully extended) and release the clip.
4. Click the switch button on the front panel.
5. during the use of it, your fingers had better not shake, the body had better not be in motion.
6. Read the relevant data directly from the display screen. When you turn on the oximeter, every time you press the power switch oximeter will be converted to another display mode. note: before each use of this product test, please first wipe the nail sleeve rubber with medical alcohol, and also wipe the finger tested clean with medical alcohol before and after the use of the oximeter. (The rubber is

3

made of medical rubber, which is non-toxic, harmless and has no side effects such as allergy to human skin.)
The Environmental Requirements Use Temperature stl:
chmetcnv TCSC="O" NumberType="1" Negative="False"
HasSpace="False" SourceValue="5"
UnitName-" °C "w:st="on">5 °C~40 °C
Storage temperature -20 °C~55 °C
Working Environmental Humidity :30%~80%
Storage Environmental Humidity :10%~100%
Working range of atmospheric pressure :70 kPa~106 kPa
Storage range of atmospheric pressure:50 kPa~106 kPa
CAas

Product accessories:

- 1 sling
- 2 AAA battery
- 1 Specification
- 1 Certificate

Battery installation:

1. Load the two AAA batteries into the battery bin correctly according to the positive and negative signs.
2. Push the battery lid horizontally in the low arrow direction. Note: Please note that the battery positive and negative properties must be installed correctly, otherwise

4

it may cause damage to the machine. Please install and remove the battery in the correct order, otherwise it will damage the battery support of the equipment. If you don't use this product for a long time, please take out the battery.

Sling installation:

1. Pass the sling through the hole.
2. pass the thick end of the rope through the fixed thin part of the rope and pull the rope tight .

Safety requirements:

1. Do not share with NMR or CT equipment.
2. The product can not be used as alarm equipment, this equipment has no alarm function.
3. Danger: Do not use this monitor in a flammable anesthetic gas environment.
4. The oximeter only aids the diagnosis of the patient. Ask the doctor to make the diagnosis in combination with the clinical manifestations and symptoms.
5. The oximeter sensor test points shall be examined from time to time to confirm the integrity of the skin and the circulation of the patient is fine at the sensor test points.
6. The sensor of the pulse oximeter is not suitable for

5

contact with adhesive tape, which may result in incorrect measurement data or mistaken for blisters on the skin.

7. Bright nails or nails with nail polish can cause wrong readings.

8. The oximeter has no oxygen alarm function and can not be used as a long-term continuous monitor.

9. Change test points periodically during long periods of use or depending on the patient's different circumstances. Test points must be replaced every 4 hours for a maximum period of time and the patient's skin must be checked for integrity and circulation and adjusted correctly.

10. High-pressure disinfection, vinyl oxide disinfectant or immersion of sensors in liquid disinfectant can cause incorrect readings.

11. A dysfunction of the major indicator of hemoglobin (such as hemoglobin containing carbon or methemoglobin) can cause incorrect readings.

12. Intravascular staining, such as indocyanine green or subblue, can cause incorrect readings.

13. The measurement of oxygen saturation is influenced by the ambient glare. If necessary, add a protective enclosure to the sensor (e.g., disinfectant wipes or direct sunlight).

6

14. Accidental movements of the patient can cause incorrect readings.

15.The interference of medical high frequency signal can cause wrong readings.

16.The rhythm of the vein can cause the wrong readings.

17. The sensor's position of measurement in the same artery or vessel as the blood pressure axis can cause incorrect readings.

18. Too low blood pressure, too low systolic blood pressure, severe anemia or hypothermia can cause incorrect readings.

19. The use of cardiotonic agents after a cardiac arrest or the shaking of a patient can cause incorrect readings.

20.Please read this manual carefully before using it.Components of accessories or accessories for recycling specified in the specification include batteries must comply with local laws and regulations.

7

Problems	Possible causes	Solutions
Blood oxygen or heart rate doesn't show properly	1. Fingers are not properly placed ;2. The patient's blood oxygen value is very low and can not be detected.	1. Please put your finger in correctly and try again 2. Please try a few more times. If you confirm that this product has no quality problems, please go to the hospital to confirm it.
Blood oxygen or heart rate shows instability	1. Fingers are not deep enough. 2. The fingers shake or the body moves.	1.Please put your fingers in correctly and try again;2.Please try to keep your body still.

8


Problems	Possible causes	Solutions
Unable to boot	1. The battery may be undercharged or not ;2. The battery may not be properly installed ;3. The machine may be damaged.	1. Please change the battery ;2. Please re-install the battery ;3. Please contact the local customer service center.
The light suddenly went off	1. When there is no detection signal, this product is set as automatically shut down after 8 seconds ;2 . The battery is insufficient.	1. normal ;2. Please replace the battery.


9


Problems	Possible causes	Solutions
Screen display "Error3" or "Error4"	1. The battery voltage is too low ;2.receiver or wiring is damaged ;3. receiver installation error;4. amp circuit failure.	1. Please change the battery ;2. Please contact the local customer service center ;3. Please contact the local customer service center ;4. Please contact the local customer service center.


10

DongGuan Crafish Electronics Technology Co.,Ltd


Add:2nd floor,building A3,Fuji industrial park,no.243,luoma road,qingxi town,dongguan city,guangdong province


Tel:+86-769-33850835


jejahdp@163.com


Web:www.crafish.com