

### LIMITED WARRANTY OF CHOICEMMED AMERICA

To obtain full warranty coverage, please be sure to complete your product registration within 30 days from date of purchase. If you choose not to register your product, this Limited Warranty will be void.

ONLINE:

- Go to [www.choicemedamerica.com/register](http://www.choicemedamerica.com/register)
- Fill out required information

MAIL:

- Complete the Warranty Registration Card
- Send to (RETURN ADDRESS):  
**2558 Pearl Buck Rd, Suite 8A, Bristol PA 19007**

Please read the warranty conditions carefully.  
For detailed warranty information, please visit: [www.choicemedamerica.com/warranty](http://www.choicemedamerica.com/warranty)

### Warranty Registration Card

Model No. \_\_\_\_\_ LOT# \_\_\_\_\_

( LOT# - located at the bottom of the packaging)

Serial No. \_\_\_\_\_ (SN) \_\_\_\_\_

(SN - located on the back on the unit)

Purchase Date \_\_\_\_\_

Purchaser Name (  M  F )

Age:  Under 18  18-24  25-34  35-49  Over 50

E-Mail: \_\_\_\_\_

Phone: \_\_\_\_\_

Address1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City/State : \_\_\_\_\_ Zip: \_\_\_\_\_

### STATEMENT OF CHOICEMMED AMERICA CO./LIMITED WARRANTY

ChoiceMMed America Co. warrants to the original purchaser that this equipment will be free from defects in materials and workmanship for a period of two years from the date of purchase. This warranty shall be limited to the repair adjustment and/or replacement at the manufacturer's option of defective parts free of charge except the cost of transportation to ChoiceMMed America Co. Manufacturer's responsibility is limited to actual cost of item. When returning equipment for warranty service, all shipping and insurance charges must be prepaid and the proof of purchase must be enclosed. A payment of \$10.00 must be included to cover the return shipping and handling. Returns will only be shipped to locations within the USA. ChoiceMMed America Co. will not be responsible for expenses or inconveniences, or consequential damages occasioned by equipment or by breach of any expressed or implied warranty with respect thereto.

### Limitations

This warranty covers all defects encountered in normal use of the equipment and does not apply in the following cases.

- 1) If the equipment has been serviced by other than a certified center.
- 2) Damage to the equipment due to mishandling, abuse, accident or not following operating instructions.
- 3) INSTRUMENTS: Warranty does not extend to display face, batteries, carrying case or lanyard.

For troubleshooting assistance please contact Consumer Support. Our representatives are trained to provide you assistance over the phone and may be able to resolve your problem without returning. For the best possible assistance please have your unit available when calling us.

### Service Phone: (215) 874-0458

Customer Service Representatives are available  
Monday through Friday - 9:30am to 4:30pm EST

[www.choicemedamerica.com/contact](http://www.choicemedamerica.com/contact)

### ChoiceMMed America Co.

2558 Pearl Buck Rd, Suite 8A, Bristol PA 19007

# OPERATOR'S MANUAL

## OxyWatch™ C9223

### Fingertip Pulse Oximeter

### 1. General Description

Thank you for purchasing OxyWatch C9223 pulse oximeter. This oximeter can be used to measure your blood oxygen saturation (in % SpO<sub>2</sub>) and your pulse rate. It should be used for spot monitoring only and not for continuous monitoring.

The OxyWatch C9223 Finger-Unit spot check oximeter is only for sports and aviation use. It is ideal for use during sports activities, mountain climbing and piloting airplanes. It is not intended to diagnosis any medical condition or to be used in medical applications.

### 2. Package Contents

1. OxyWatch™ C9223 Pulse Oximeter
2. Lanyard
3. User Manual
4. Carrying Case
5. 2 AAA Batteries

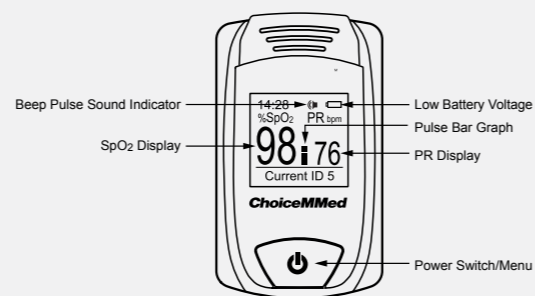
### 3. Precautions for Use

1. Read the manual carefully before use.
2. Pulse oximeters are sensitive to motion artifacts. Keep hands still while taking a reading.
3. Pulse oximeters require sufficient blood flow to obtain proper readings. Poor blood circulation can result in inaccurate readings. If your hands are cold or you have poor circulation, warm your hands by rubbing them together or use another method before attempting to obtain a reading. A tourniquet, blood pressure cuff or other blood flow hindrances may also result in inaccurate readings.
4. Fingernail polish or acrylic nails obstruct the light transmission and may also result in inaccurate readings.
5. Your finger must be clean for proper reading.
6. The pulse oximeter must be clean for a proper reading.
7. If a reading is difficult to obtain, switch to another finger or to the other hand.
8. There are a number of other conditions which may lead to an inaccurate reading including but not limited to recent medical tests that included an injection of dyes, use of arterial catheters, a weak pulse, low levels of hemoglobin in the blood, low perfusion (the quality of your pulse), elevated levels of dysfunctional hemoglobin, the strength and type of light that you are in while using the pulse oximeter and the existence of cell phones, radios, and fixed transmitters within certain ranges of the pulse oximeter during use.
9. The pulse oximeter will not alert you if your readings are out of normal range.
10. Explosion hazard: Do not use the pulse oximeter in an explosive atmosphere.
11. The pulse oximeter has no SpO<sub>2</sub> alarms; it is not for continuous monitoring, as indicated by the symbol.

In addition to items described in the Precautions for Use, inaccurate measurements may be caused by FACTORS INCLUDING BUT NOT LIMITED TO:

1. Autoclaving, ethylene oxide sterilizing or immersing the sensors in liquid.
2. Significant levels of dysfunctional hemoglobin (such as carboxyhemoglobin or methemoglobin).
3. Intravascular dyes such as indocyanine green or methylene blue.
4. SpO<sub>2</sub> measurements may be adversely affected in the presence of high ambient light such as direct sunlight. In bright light conditions, cover the sensor area if necessary.
5. Excessive user movement.
6. High-Frequency electrosurgical interference and defibrillators.
7. Venous pulsations.
8. The user has hypotension, severe vasoconstriction, severe anemia or hypothermia.
9. Fingernail polish or false fingernails may cause inaccurate SpO<sub>2</sub> readings.
10. Follow local ordinances and recycling instructions regarding disposal or recycling of the device and device components, including batteries.

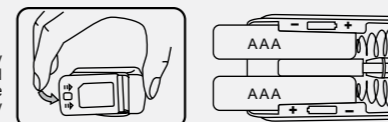
### 4. Brief Description of Front Panel



The height of the Pulse Bar Graph indicates the intensity of the pulse and signal strength. The bar should be greater than 30% for a proper reading.

### 5. Battery Installation

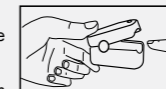
1. Push to remove the battery compartment
2. Put two AAA batteries into the battery compartment. Match the plus (+) and minus (-) signs in the compartment. If the polarities are not matched, damage may be caused to the oximeter.
3. Push the battery compartment back into the oximeter.



**NOTE:** Install the batteries in right polarity. Incorrect placement may cause damage to the bracket.  
**NOTE:** Remove the batteries if the pulse oximeter will not be used for long periods of time.

### 6. Using the Oximeter

1. Press the switch button on front panel to turn the pulse oximeter on.
2. Put your ID number before using the oximeter. The measured data will be saved under your ID automatically.  
**Tip:** Please refer to *System Settings* chapter to learn how to set your ID.
3. Make sure the date and time are correct before using the device. Set them if it is necessary. The ID number, date and time are important indicators when a measurement is being taken.  
**Tip:** Please refer to *System Settings* chapter to learn how to set date and time.
4. Open the clamp shown as the right side picture.
5. Place one of your fingers into the rubber opening of the pulse oximeter (your finger should touch the bottom portion) before releasing the clamp.
6. Keep your hands still for the reading. Do not shake your finger during the test. It is recommended that you do not move your body while taking a reading.
7. Read the data from the display screen.
8. There are four display modes. After turning on the pulse oximeter, each time you press Power Switch, the pulse oximeter will switch to another display mode.
9. Long press Power Switch button to review the measured data under System Set menu.  
**Tip:** Please refer to *System Settings* chapter to learn how to review measured data.
10. When no signal or low signal is detected, the pulse oximeter will power off automatically in 8 seconds.



### 7. System Settings

After turning on the oximeter, access System Set menu by long pressing Power Switch button. Move the highlight bar by short pressing the Power Switch. Set highlighted parameter by long pressing the Power Switch.

#### 1. Data Manage

**Function** Review measuring data. Check the situation of used space and clear data.

#### Operation

- Step 1. In *System Set* menu, short press the Power Switch to move the highlight bar to *Data Manage*.
- Step 2. Long press the Power Switch to enter *Data Manage*. You will see the submenus of *Data Manage*.

#### 1.1 Data Review

- 1.1.1 **Function** Review the stored data
- 1.1.2 **Operation**
  - Step 1. In *Data Manage* menu, short press the Power Switch to move the highlight bar to *Data Review*.
  - Step 2. Long press the Power Switch to enter *Select Date*, you will see data stored by date.
  - Step 3. Short press the Power Switch to move the highlight bar to the data you need.
  - Step 4. Long press the Power Switch to review details.

#### NOTE:

- The oximeter will automatically go back to measuring mode if there is no operation under *Select Date* menu after 7 seconds.
- The oximeter will automatically go back to measuring mode if there is no operation under the submenu of *Select Date* after 1 minute.

#### 1.2 Used Space

- 1.2.1 **Function** Display the percentage of used space.
- 1.2.2 **Operation** When you enter *Data Manage* menu, you will see the percentage of used space directly.

#### 1.3 Clear Data

- 1.3.1 **Function** Clear the stored data
- 1.3.2 **Operation**
  - Step 1. In *Data Manage* menu, short press the Power Switch to move the highlight bar to *Clear Data*.
  - Step 2. Long press the Power Switch to enter *Clear Data*, you need to confirm whether to clear the data or not.

#### NOTE:

- Once deleted, the previous data can not be restored.

#### 1.4 Return

- 1.4.1 **Function** Return to the previous menu.
- 1.4.2 **Operation**
  - Step 1. In *Data Manage* menu, short press the Power Switch to move the highlight bar to *Return*.
  - Step 2. Long press the Power Switch to get back to the previous menu.

#### 2. ID

- 2.1. **Function** Set User ID number, there are 5 User IDs, 01 ~ 05.

#### 2.2. Operation

- Step 1. Enter *System Set* menu, short press the Power Switch to move the highlight bar to ID.
- Step 2. Long press the Power Switch to change ID number.
- Step 3. Release the Power Switch to confirm ID number.

#### 3. Brightness

- 3.1 **Function** Set the brightness level of the screen. There are 7 levels. The default level is 3.
- 3.2 **Operation**
  - Step 1. Enter *System Set* menu, short press the Power Switch to move the highlight bar to *Brightness*.
  - Step 2. Long press the Power Switch to change the brightness level.
  - Step 3. Release the Power Switch to confirm brightness level.

#### 4. Date and Time

- 4.1. **Function** Set date and time.
- 4.2. **Operation**
  - Step 1. Enter *System Set* menu, short press the Power Switch to move the highlight bar to *Date and Time*.
  - Step 2. Long press the Power Switch to enter *Date and Time*, you will see three items–Date, Time and Return.
  - Step 3. Short press the Power Switch to move the highlight bar to one of the items
  - Step 4. Long press the Power Switch to change the number.
  - Step 5. Move the highlight bar to *Return*, long press to save the date and time.

- Tips:** 1. The time used for OxyWatch C9223 is in 24-hour system.  
2. The Date and Time setting will not be saved without returning to the previous menu.

#### 5. Beep

- 5.1 **Function** Turn on or off beep pulse sound.

#### 5.2 Operation

- Step 1. In *System Set* menu, short press the Power Switch to move the highlight bar to *Beep*.
- Step 2. Long press the Power Switch to confirm whether to turn on the beep sound or not.

#### 6. Return

- 6.1 **Function** Return to the previous menu.
- 6.2 **Operation**
  - Step 1. In *System Set* menu, short press the Power Switch to move the highlight bar to *Return*.
  - Step 2. Long press the Power Switch to return to measuring mode interface.

### 8. Maintenance

1. Clean the pulse oximeter and sensor with a soft cloth dampened with isopropyl alcohol. Do not pour or spray any liquids onto the pulse oximeter. Do not allow any liquid to enter any openings in the device. Allow the pulse oximeter to dry thoroughly before reusing. (The rubber inside of the pulse oximeter is composed of medical grade rubber. It is non toxic and is not harmful to the skin).
2. The pulse oximeter requires no routine calibration or maintenance other than replacement of the batteries.

### 9. Technical Specifications

1. **Display:** OLED display
2. **Battery Standard:** Two AAA 1.5V Alkaline Batteries
3. **Power Consumption:** Less than 40mA
4. **Resolution:** ±1% for SpO<sub>2</sub> and ±1BPM for Pulse Rate
5. **Measurement Range:**  
Measuring range for SpO<sub>2</sub>: 70%~100%  
Measuring range for PR: 30bpm~235bpm
6. **Measurement Accuracy:**  
SpO<sub>2</sub>: 80%~100%, ±2%; 70%~79%, ±3%; ≤69%, no definition.  
PR: 30bpm~99bpm, ±2 bpm; 100bpm~235bpm, ±2%
7. **Environment Requirement:**  
Operation Temperature: 5°C~40°C (41°F~104°F)  
Storage Temperature: -20°C~55°C (-4°F ~131°F)  
Ambient Humidity: ≤80%, no condensation in operation.  
≤93%, no condensation in storage
8. **Automatic Power Off:** The oximeter will power off automatically after 8 seconds when the finger is removed.
9. **It is recommended that the product be kept in a dry place. Damp-ambient might affect its lifetime and even might damage the product.**
10. **Declaration**  
EMC of this product complies with IEC60601-1-2 standard.  
The materials which users can come into contact with are non toxic and comply with ISO10993-1, ISO10993-5 and ISO10993-10.  
**NOTE:** The specifications are subject to changes without prior notice.

### 10. Guidance and manufacture's declaration – electromagnetic emissions-for all EQUIPMENT and SYSTEMS

Guidance and manufacture's declaration – electromagnetic emission		
The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The Pulse Oximeter 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.
RF emission CISPR 11	Class B	The Pulse Oximeter 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.

### 11. Possible Problems and Solutions

Problems	Possible Reason	Solution
SpO <sub>2</sub> or PR is shown unstably or no value.	1. Finger might not be plugged correctly. 2. Finger is trembling or user's body is in movement status.	1. Retry by plugging the finger. 2. Try not to move.
The pulse oximeter can not be powered on	1. The batteries might be installed incorrectly. 2. The batteries power might be inadequate or not be there at all. 3. The pulse oximeter might be damaged.	1. Please reinstall the batteries according to the polarity marked inside the battery compartment. 2. Please replace the batteries. 3. Please contact our customer service center.
*Probe Off* or *Error:10*	The product is damaged.	Please contact our customer service center.

### 12. Symbol Definitions

Symbol	Definition	Symbol	Definition
	Date of Manufacture	<b>SN</b>	Serial Number
<b>%SpO<sub>2</sub></b>	Oxygen Saturation	<b>PR bpm</b>	Pulse Rate (bpm)
	Low battery voltage		Beep sound is on

**NOTE:**  
The illustrations used in this manual may differ slightly from the appearance of the actual product.

#### Warnings:

1. Keep the pulse oximeter away from young children. Small parts such as the battery door and the batteries etc. May be hazardous if swallowed.
2. The lanyard may cause strangulation in conditions that may cause it to twist around the neck.

**Distributed by:**  
**ChoiceMMed America Co.**  
Bristol, PA 19007

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Revised date: February 10, 2014

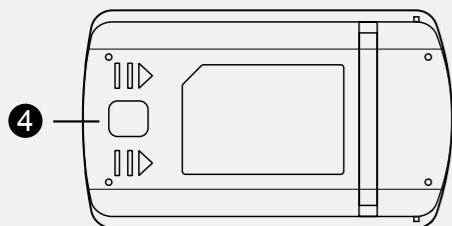
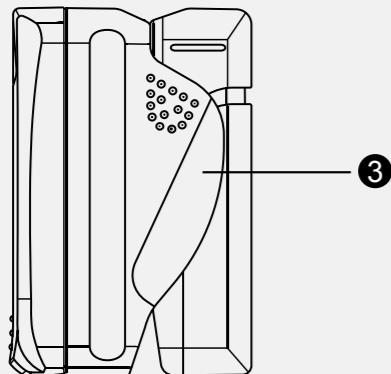
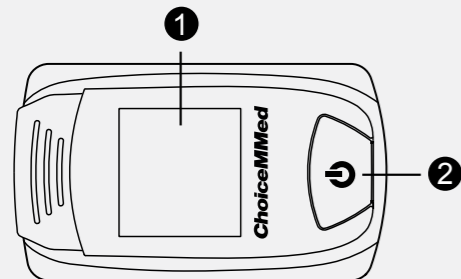


# Quick Operation Guide

ChoiceMMed\_OxyWatch\_C9223\_Ver5.0

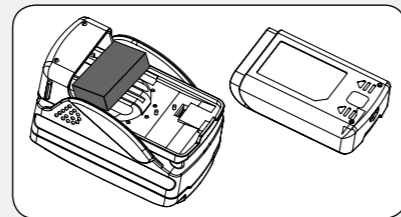
## Know Your Pulse Oximeter

*Tip: Before using the oximeter, please remove the protective sticker covering the display.*

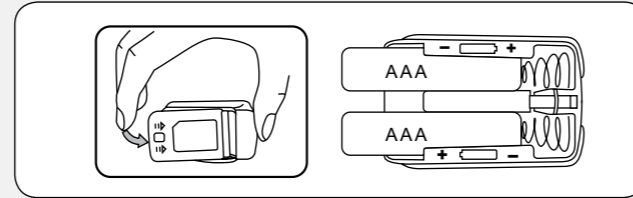


- 1 Displaying Screen
- 2 Power Switch
- 3 Light Shield
- 4 Battery Compartment

## Battery Installation

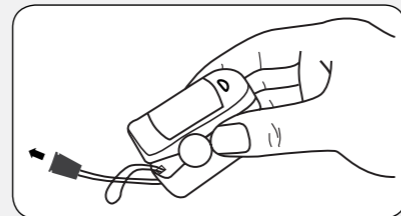


Push to open the battery compartment and remove the black foam.



Please put in the batteries according to the polarity marked inside the battery compartment.

## Lanyard Installation



Tie the lanyard through the hole in the rear of the pulse oximeter.

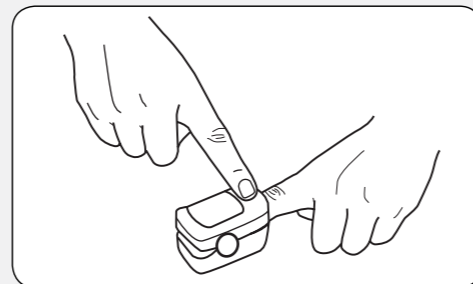
## Operation Instruction

Set your ID number before using the oximeter. The measured data will be saved under your ID automatically.

*Tip: Please refer to System Settings chapter in Operator's Manual on the other side to learn how to set your ID.*

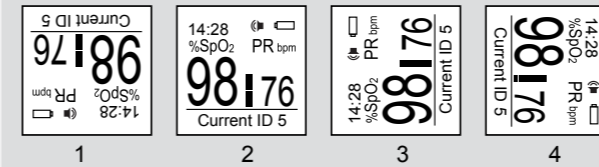
Make sure the date and time are correct before using the device. Set them if necessary. The ID number, date and time are important indicators when a measurement is being taken.

*Tip: Please refer to System Settings chapter in the Operator's Manual on the other side to learn how to set date and time.*



Place one of your fingers into the pulse oximeter to the end and press the switch button one time on front panel to turn it on.

There are four display modes. After turning on the pulse oximeter, each time you press the power switch, the pulse oximeter will switch to another display mode.



Keep your hands still for the reading.

The pulse oximeter will power off automatically in 8 seconds if there's no finger inside.

The OxyWatch™ C9223 pulse oximeter will automatically record your measurement under your User ID. It has a 72 hour data storage capability.

*Tip: Please refer to the Operator's Manual in the other side to learn how to review the recorded data.*

It is easy to turn on and off the beep pulse sound, adjust the screen brightness and set up some other functions through System Set interface.

*Tip: Please refer to the Operator's Manual in the other side to learn how to set the functions which are indicated above.*

## Warnings and Notes

### Warnings:

1. Keep the pulse oximeter away from young children. Small parts such as the battery door and the batteries etc. May be hazardous if swallowed.
2. The lanyard may cause strangulation in conditions that may cause it to twist around the neck.

### Notes:

1. Read the manual carefully before use.
2. The illustration used in this manual may differ slightly from the appearance of the actual product.
3. Follow local ordinances and recycling instructions regarding disposal or recycling of the device and device components, including batteries.

## Frequently Asked Questions

### What is a Pulse Oximeter?

A pulse oximeter is a non-invasive device that indirectly monitors the blood oxygen saturation (SpO<sub>2</sub>) and pulse rate (heart rate). It displays both blood oxygen saturation (SpO<sub>2</sub>) & pulse rate (heart rate). Pulse oximeters provide an easy way of assessing your blood oxygen level and pulse rate.

### What is SpO<sub>2</sub>?

SpO<sub>2</sub> is also known as oxygen saturation. Oxygen saturation is a measure of how much oxygen the blood is carrying as a percentage of the maximum it could carry.

### What is the normal range of SpO<sub>2</sub>?

The normal range for SpO<sub>2</sub> is typically considered from 95%~99%. The SpO<sub>2</sub> measurement may be lower for people who live at high altitudes. Ask your health professional this question as it pertains to you.

### What is the normal range for pulse rate?

The normal resting range for pulse rate is typically considered from 60 ~100 beats per minute. Ask your health professional this question as it pertains to you .

### What kind of conditions may cause an inaccurate reading?

Cold hands, poor circulation, very weak pulse, movement fingernail polish and acrylic nails may cause inaccurate results.

### The SpO<sub>2</sub> is not changing – it's stuck?

SpO<sub>2</sub> does not change like pulse rate. It is slow to change.

### The Pulse Rate is changing rapidly.

Your heart rate changes with emotions, excitement and exercise.

### I do not see the battery light indicator.

The battery light indicator only appears when the battery is low.

