

JOHN BUNN®

A Graham-Field Brand



OXYCHECK FINGERTIP PULSE OXIMETER MODEL JB02017 OPERATOR MANUAL

GENERAL DESCRIPTION

The John Bunn® JB02017 OxyCheck Fingertip Pulse Oximeter provides a simple way to spot-check users by combining the sensor and monitor into one integrated, compact, easy to use device. The oximeter measures pulse oxygen saturation (SpO₂) value, pulse rate value, and pulse strength. When a finger is inserted into the sensor's rubber cushion, the SpO₂ value automatically displays. The pulse bar graph displays the user's pulse beat, and the bar graph's height shows pulse strength. The oximeter, which is powered by two AAA batteries, features a low-battery indicator and powers off automatically in eight seconds when not in use.

Product Accessories (Included)

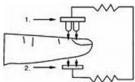
1. One lanyard
2. Two AAA batteries
3. One protective cover
4. One operator manual

Principle of Measurement

Two beams of different wavelength (660 nm glow and 940 nm near infrared light) are focused onto a human nail tip through a clamping finger-type sensor. A measured signal obtained by a photosensitive element, through processes of electronic circuits and microprocessor, will be shown on the oximeter's display.

Principle of Operation Diagram

See illustration and descriptions below.



1	Red and Infrared Emission Tube
2	Red and Infrared Receipt Tube

INTENDED USE

The intended use of the OxyCheck Fingertip Pulse Oximeter is the measurement and display of the functional oxygen saturation of arterial hemoglobin (SpO₂) and pulse rate (PR) of adults and pediatric users in hospital, ambulatory, home, and EMS (Emergency Medical Service) environments. The Pulse Oximeter is intended for spot-checking these levels.

Contraindications (⚠ WARNINGS):

- If you do not understand any part of these instructions, contact a healthcare professional for direction in the use of this product.
- This device is not intended for continuous monitoring.
- Do not use this device in an explosive atmosphere.
- Do not use this device in an MRI or CT environment.

INACCURATE MEASUREMENTS MAY BE CAUSED BY THE FOLLOWING:

- Autoclaving, ethylene oxide sterilizing, or immersing the device in liquid
- Significant levels of dysfunctional hemoglobins (such as carboxy- hemoglobin or methemoglobin)
- Intravascular dyes such as indocyanine green or methylene blue
- High ambient light — shield the sensor area (with a surgical towel, or direct sunlight, for example) if necessary
- Excessive user movement
- High-frequency electrosurgical interference
- Venous pulsations
- Placement of a sensor on an extremity with a blood pressure cuff, arterial catheter, or intravascular line
- User hypotension, severe vasoconstriction, severe anemia, or hypothermia
- User cardiac arrest or shock
- Improper finger placement, e.g. fingernail not facing upward
- Fingernail polish or false fingernails.

SAFETY — PRECAUTIONS FOR USE

⚠ **WARNING:** Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in death or serious injury. **WARNING** statements follow:

Before use, carefully read the manual.

The pulse oximeter has no alarms. Do not use the pulse oximeter in situations where alarms are required. It is not for continuous monitoring.

The pulse oximeter is intended only as an adjunct in user assessment. It must be used in conjunction with other methods of assessing clinical signs and symptoms.

⚠ **CAUTION:** Indicates a potential hazard or unsafe practice that, if not avoided, could result in moderate or minor personal injury. **CAUTION** statements follow:

Check the pulse oximeter sensor application site frequently to determine the positioning of the sensor and circulation and skin sensitivity of the user.

Do not stretch the adhesive tape while applying the pulse oximeter sensor. This may cause inaccurate readings or skin blisters.

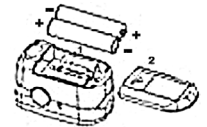
Prolonged use or the user's condition may require changing the sensor site periodically. Change sensor site and check skin integrity, circulatory status, and correct alignment at least every 4 hours.

▲ **NOTICE:** Indicates a potential hazard or unsafe practice that, if not avoided, could result in product/property damage.

SETUP

Battery Installation

1. Open battery compartment cover.
2. Install two AAA batteries in battery compartment, ensuring that polarities are correct.
3. Close battery compartment cover: Push cover horizontally along the arrow as shown at right.



▲ NOTICE:

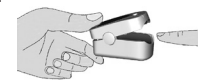
• Ensure battery polarities are correct, or the device could be damaged.

Lanyard Installation

1. Thread the thinner end of the lanyard through the oximeter loop.
2. Thread the thicker end of the lanyard through the threaded end, then pull it tightly.

OPERATION INSTRUCTIONS

1. Use isopropyl alcohol to clean the test finger and the rubber inside the oximeter that touches the finger.
2. Place clamp over fingernail as shown at right; insert finger, **fingernail up as shown**.
3. Press button on front panel once. **User's finger and body must remain still during measurement.**
4. See display: the SpO₂ value automatically displays, the pulse bar graph displays the pulse rate, and the bar graph's height shows the pulse strength.



MAINTENANCE AND STORAGE

▲ NOTICE:

- This device contains no serviceable parts. Do not disassemble.
- Remove the batteries if the oximeter will not be used for a long period of time.
- Do not autoclave, sterilize with ethylene oxide, or immerse the device in liquid.
- See SPECIFICATIONS/Environmental Requirements for operation and storage requirements. A wet ambience could damage this product and shorten its lifetime.
- Recycle or dispose of this device and its used batteries in observance of local regulations.

Info: Use isopropyl alcohol to clean the rubber (inside the oximeter, that touches the finger) and the test finger before and after each test. The rubber inside the oximeter is medical rubber, which has no toxins, and is not harmful to the skin.

- Replace the batteries when low battery indicator illuminates.

SPECIFICATIONS

Display Type	LED (Light Emitting Diode)		
SpO ₂	Measurement range	70-99%	
	Accuracy	80%-99%: ±2%	
		70%-79%: ±3%	
		≤69% : no definition	
Pulse Rate	Measurement range	30-235 BPM	
	Accuracy	30~99 BPM: ±2 BPM	
		100~235 BPM: ±2%	
Pulse Intensity	Bargraph Indicator		
Power Requirement	Two AAA alkaline Batteries		
Power Consumption	<40 mA		
Low Power Indicator			
Battery Life	~ 30 hours of continuous operation		
Dimension (L x W x H)	2.20" ~ 2.44" x 1.26" ~ 1.50" x 1.34" ~ 1.50" (56 mm ~ 62 mm x 32 mm ~ 38 mm x 34 mm ~ 38 mm)		
Weight	1.59 oz ~ 2.12 oz (0.10 lb ~ 0.13 lb) (45 g ~ 60 g) including two AAA batteries		
Environmental Requirements	Temperature	Operation	41°F ~ 104°F (5°C ~ 40°C)
		Storage	68°F ~ 131°F (20°C ~ 55°C)
	Humidity (non-condensing)	Operation	≤80% RH
		Storage	≤93% RH
Interference Resistance Capacity against Ambient Light	Device works normally when mixed noise produced by BIO-TEK INDEX Pulse Oximeter tester		

DECLARATION

This product's EMC complies with IEC60601-1-2 standard. The materials with which the user can come into contact have no toxicity, no action on tissues, and comply with ISO10993-1, ISO10993-5 and ISO10993-10.

GUIDANCE AND MANUFACTURER'S DECLARATION: ELECTROMAGNETIC EMISSIONS FOR ALL EQUIPMENT AND SYSTEMS

Guidance and manufacturer'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 emission 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.

TROUBLESHOOTING

Problem	Possible reason	Solution
SpO ₂ or PR cannot be displayed normally	1. User's finger is incorrectly inserted 2. User's Oxyhemoglobin value is too low to be measured	1. Reinsert user's finger 2. Attempt several times to obtain a reading; If sure that no problem exists, obtain further clinical examination
SpO ₂ or PR display is unstable	1. Finger may not be inserted deeply enough 2. Finger trembling or user moving	1. Reinsert finger 2. Ask user to remain still

Troubleshooting continued		
Problem	Possible reason	Solution
Oximeter cannot be powered on	1. Battery power may be inadequate or batteries may not be installed 2. Batteries may be installed incorrectly 3. Oximeter may be damaged	1. Replace batteries 2. Reinstall batteries 3. Contact GF distributor
Indicator lamps are suddenly off	1. Device automatically powers off when no signal is detected for longer than 8 seconds 2. Batteries too weak to power device	1. Normal 2. Replace the batteries
"Error3" or "Error4" displays	1. Low power 2. Receiving tube and/or connector may be shielded or damaged 3. Mechanical misplace for receive-emission tube 4. Amp circuit malfunction	1. Replace batteries 2. Contact GF distributor 3. Contact GF distributor 4. Contact GF distributor
"Error7" displays	1. Low power 2. Emission diode damaged 3. Current control circuit malfunction	1. Replace batteries 2. Contact GF distributor 3. Contact GF distributor

SYMBOL DEFINITIONS

Symbol	Definition	Symbol	Definition
	Type BF applied part		Low power indicator
	Attention, consult accompanying documents		No SpO ₂ Alarm
% SpO ₂	Oxygen saturation		Power switch
	Heart rate (BPM)	SN	Serial Number

Info: The illustration used in this manual may differ slightly from the appearance of the actual product.

LIMITED WARRANTY

GF Health Products, Inc. warrants the John Bunn® JB0217 Oxy-Check Fingertip Pulse Oximeter to be free from defects in workmanship and materials for one year.

The warranty does not apply to damage resulting from failure to follow the operating instructions, accidents, abuse, alterations or disassembly by unauthorized individuals.

If a product is deemed to be under warranty, GF Health Products, Inc. shall provide, at its option, (1) replacement of any defective part or product or (2) a credit of the original selling price made to GF Health Products, Inc.'s initial customer. The warranty does not include any labor charges incurred in replacement part(s) installation or any associated freight or shipping charges to GF Health Products, Inc.

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