GENERAL DESCRIPTION
The John Bunn JB02017 OxyRead 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.

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 intended 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 for California Customers—California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.

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 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.

NOTICE: Remove the batteries if the oximeter will not be used for a long period of time.

NOTICE: Do not autoclave, sterilize with ethylene oxide, or immerse the device in liquid.

NOTICE: See SPECIFICATIONS/Environmental Requirements for operation and storage requirements. A wet ambience could damage this product and shorten its lifetime.

NOTICE: 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 used for a long period of time.

Info: Replace the batteries when low battery indicator illuminates.
SPECIFICATIONS

Display Type | LED (Light Emitting Diode)  
--- | ---  
SpO<sub>2</sub> 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″ x 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 | 69°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<sub>2</sub>, 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<sub>2</sub>, 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  
1. Battery power may be inadequate or batteries may not be installed  
2. Batteries may be installed incorrectly  
3. Oximeter may be damaged

Troubleshooting continued

Problem | Possible reason | Solution  
--- | --- | ---  
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  
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  
1. Battery power may be inadequate or batteries may not be installed  
2. Batteries may be installed incorrectly  
3. Oximeter may be damaged

SYMBOL DEFINITIONS

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

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

LIMITED WARRANTY

Scope of Warranty

GF Health Products, Inc. (“GF”) warrants to the original purchaser (“Customer”) only, that it will replace or repair components, at GF’s sole discretion, that are defective in material or workmanship under normal use for a period of one year after the purchase date unless there is an expiration date on the component in which case the warranty shall expire on the earlier of the warranty period or the expiration date. The warranty does not extend to non-durable parts and does not include labor or costs of shipping. This limited warranty is not transferable. All warranties are conditioned upon the proper use of the product strictly in accordance with good commercial practice and applicable GF instructions and manuals, including proper use and maintenance. The warranty is void if the defect is caused by any other reason not related to defects in materials or workmanship.

Obtaining Warranty Service

GF’s customer service team must be notified of any warranty claim within the applicable warranty period. Call 678-391-3207, or fax 770-368-2386 or email cs@grahamfield.com. Failure to follow the specific directions provided by the GF customer service team will result in denial of the warranty claim.

Entire Warranty, Exclusive Remedy and Consequential Damages Disclaimer

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