

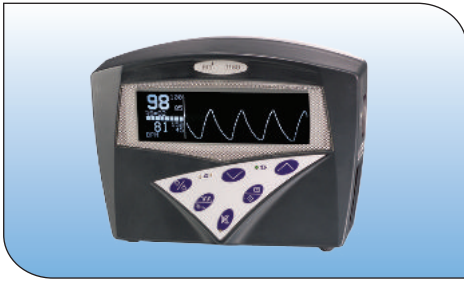
BCI® 3180 Pulse Oximeter



The BCI® 3180 Plus Oximeter provides an exceptional value for everyday oximetry needs. This compact, stand-alone monitor delivers fast, reliable SpO₂, pulse rate and pulse strength measurements complete with a plethysmographic waveform, and up to 30 hours of on-screen trending. Plus, the bright liquid crystal display, easy-to-use menu, and audible and visual alarms enhance clinical efficiency and quality of care for patients ranging from neonate to adult.

For more information visit smiths-medical.com/bci.

PATIENT MONITORING



BCI® 3180 Pulse Oximeter

- SpO₂, pulse rate and pulse strength measurements.
- Backlit liquid crystal display.
- Plethysmographic waveform.
- Up to 30 hours of on screen trended data for all parameters.
- Easy-to-operate menu structure.
- Audible and visual alarms.
- AC or battery power.
- Monitor patients ranging from neonate to adult.
- Genuine BCI® reusable and disposable sensors available.

Technical Specifications

DISPLAYS

- **Display**
Backlit LCD
- **Resolution**
240 x 64 pixels
- **Waveform**
Plethysmogram
- **Graphic Trends**
SpO₂, pulse rate (heart rate), pulse signal strength and respiration
- **SpO₂**
SpO₂ value, high and low alarm limits
- **Pulse Rate**
Pulse rate value, high and low alarm limits
- **Pulse Strength**
Logarithmically scaled 8-segment bar graph

INDICATORS

- **Low Battery**
Low battery icon when 10 minutes of battery life remain
- **Audio Status**
Yellow LED and displayed symbol indicates alarm audio paused (2 min) or indefinite
- **SpO₂ Sensor**
Message indicates sensor problem
- **SpO₂ Search**
Message indicates monitor is searching for a pulse
- **Small Pulse**
Message indicates oximeter signal strength is low
- **Charge**
Green CHARGE LED indicates external power and battery is charging
- **Lost Pulse**
Message indicates monitor has lost the signal

SPO₂

- **Range**
0 to 100% SpO₂ (functional)
- **Accuracy**
Adult: ± 2% at 70-100%
Neonate: ±3% at 70-100% SpO₂
<70% unspecified

- **Averaging**
4, 8, or 16 pulse beat average
 - **Alarm Range**
High: 50 to 100% and OFF (1% steps)
Low: 50 to 99% and OFF (1% steps)
- #### PULSE RATE
- **Range**
30-254 bpm
 - **Accuracy**
±2 bpm or ±2% (whichever is greater) at 30-254 bpm
 - **Alarm Range**
High: 30-254 bpm and OFF (1 bpm steps)
Low: 30-254 bpm and OFF (1 bpm steps)
 - **Averaging**
8 or 16 second average

POWER REQUIREMENTS

Two voltage ranges selected by external switch

90-125 VAC, 50/60 Hz
200-240 VAC, 50/60 Hz

BATTERY LIFE

Standard lead-acid 6 VDC battery:
Internal rechargeable
approximately 4 hrs of continuous use (new)
approximately 7 hrs of charge time

PRINTER OUTPUT

Serial infrared link—real time patient data RS232C trend table output

DIMENSIONS

8" W x 6.5" H x 5" D
(20.3 cm W x 16.5 cm H x 12.7 cm D)

WEIGHT

4.5 lbs. (2kg)

ENVIRONMENTAL

- **Operating Temperature**
32°F to 131°F (0°C to 55°C)
- **Storage Temperature**
-40°F to 167°F (-40° to 75°C)
- **Relative Humidity** (non-condensing)
10-95% (storage)
15-95% (operating)

STANDARDS

EN60601-1 (IEC 601-1)
UL 2601-1 and CAN/CSA 601.1
CAN/CSA NRTL/C

REGULATORY COMPLIANCE

ISO 9001/ISO 13485

CATALOG NUMBER

- **3180**
Pulse Oximeter

Information subject to change without notice. Please read the Instructions for Use supplied with the product for detailed instructions, warnings and cautions.

Q-Line for U.S.A. customers: call 1-800-348-1842 for clinical application information.

For more information, please call Smiths Medical PM, Inc., at 262-542-3100 or 800-558-2345, or your Smiths Medical distributor.

Smiths Medical PM, Inc.

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www.smiths-medical.com/bci

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