

SPECTRO₂ | 20 Pulse Oximeter



Reliable results in challenging environments

Through the use of BCI® patented serial autocorrelation technology, the SPECTRO₂ | 20 pulse oximeter delivers reliable spot-check results – *even in challenging clinical environments with the presence of low perfusion or motion.*

The SPECTRO₂ | 20 oximeter aids health care providers in responding to a wide range of patient needs, including higher acuity care and ambulatory situations.

- Inter- and Intra-hospital transport
- Triage
- Patient tremors
- Unstable patients

With its unique features and optional accessories, the SPECTRO₂ | 20 oximeter can be customized to address the needs of virtually any clinical setting.

For more information about the SPECTRO₂ | 20 oximeter and its associated accessories, visit smiths-medical.com/bci.

PATIENT MONITORING

SPECTRO₂ Pulse Oximeter Series –
Designed With You in Mind

SPECTRO₂ | 20 Pulse Oximeter Features

Reliable readings in a wide variety of challenging patient care situations

- Low perfusion performance
- Motion tolerance

PI (Pulse amplitude Index) Indicator

- Helps identify and maintain a good test site
- Enables confidence in results

One of the largest displays on the hand-held market

- At-a-glance patient assessment
- Easy to view from wide angles
- 50% larger LEDs than comparable hand-held devices

On-board sensor storage cradle

- Stores and protects sensor
- Reduces damage, minimizing unnecessary replacement costs
- Sensor is always ready and available

Versatility with multiple sensors

- Compatible with all BCI[®] sensors
- New BCI[®] 20-inch Spot-Check Sensor
 - Minimizes frustrating cable tangles
 - Quick, easy patient assessments
- Nellcor[®] sensor compatibility¹

¹ Tested with Nellcor[®] DS100A sensor.

Optional Accessories

• Docking Station

- Converts hand-held device to a table-top unit
- Allows for convenient storage
- Recharges device and an additional “back-up” Lithium Ion battery
- Modular style for attaching optional printer



Docking Station



Attachable Printer

• Attachable Printer

- Prints real-time, graphical and numerical trends



Power Options

• Power Options

- Disposable batteries
- AC power
- BCI[®] rechargeable Lithium Ion battery
- USB cable



Protective Rubber Gloves

• Protective Rubber Gloves

- Available in a range of colors

Technical Specifications

DISPLAYS AND INDICATORS

- **Keys** – ON/OFF button

SpO₂ (FUNCTIONAL)

- **Range**
0 to 100% (1% increments); display maximum 99%
- **Standard Accuracy**
Adult / Ped $\pm 2 A_{rms}$ at 70 - 100%
Neonate¹ $\pm 3 A_{rms}$ at 70 - 100%
Less than 70% unspecified
- **Low Perfusion Accuracy**
Adult / Ped $\pm 2 A_{rms}$ at 70 - 100%
Neonate¹ $\pm 3 A_{rms}$ at 70 - 100%
Less than 70% unspecified
- **Motion Accuracy²**
Adult / Ped $\pm 3 A_{rms}$ at 70 - 100%
Less than 70% unspecified
- **Averaging** – 8 beats

PULSE SIGNAL STRENGTH

- **Range**
0 to 9 indicator, indicates logarithmic strength of patient pulse
- **Display** – 9-segment red LED bargraph

¹With the BCI[®] 1302 Sensor.

²With the BCI[®] 1300 Sensor.

PULSE RATE

- **Range** – 20 - 300 bpm (1 bpm increments)
- **Standard Accuracy** – $\pm 2 A_{rms}$
- **Low Perfusion Accuracy**
 $\pm 3 A_{rms}$ over 25 - 250 bpm range
Less than 70% unspecified (Pulse amplitude $< 1\%$. Tested using industry standard simulator.)
- **Averaging** – 8 seconds

PULSE AMPLITUDE INDEX

- **Range** – 0.03% - 20% (0.01% increments)
- **Display** – 9-segment green/yellow LED bargraph

POWER REQUIREMENTS

- **Battery**
4 “AA” alkaline or custom 2-cell Lithium Ion rechargeable battery pack
- **External (from AC Charger)**
9V, 3A output; input of 100-240 VAC, 50Hz, 60Hz
- **External (from USB)**
Input: 5V, 500mA max (USB powered source)
Output: 9V, 230mA max to oximeter

BATTERY LIFE

- **Alkaline Cells Life** – Approx. 26 hours of use
- **Rechargeable Battery Life**
Approx. 31 hours of continuous use (new)
Approx. 3 hours typical recharge time

TREND STORAGE

- **Parameters**
%SpO₂, Pulse Rate, Pulse amplitude Index and Relative Time
- **Interval** – 4 seconds
- **Capacity** – 144 hours at 4 second intervals

MEMORY – Stores data for up to 99 patients

ENVIRONMENT

- **Operating Temperature**
Oximeter and accessories: 0°C to 55°C (32°F to 130°F)
Power supply: 0°C to 40°C (32°F to 104°F)
Li+ battery charging: 5°C to 45°C (41°F to 113°F)
- **Relative Humidity**
Operating: 15 to 95% (non-condensing)
Storage: 10 to 95% (non-condensing)
- **Altitude** – Up to 10,000 ft.
- **Shock and Vibration** – Transport per ISO 9919

PHYSICAL

- **Dimensions** – 3.3W x 6.1H x 1.7D in
- **Weight** – 340g including four “AA” batteries

STANDARDS

EN60601-1, EN60601-1-2, ISO 9919

WARRANTY – 3 years

CATALOG NUMBER – WW1020

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