

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

SPECTRO ² | 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 compatibility ¹

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
- Attachable Printer
 - Prints real-time, graphical and numerical trends
- Power Options
 - Disposable batteries
 - AC power
 - BCI [®] rechargeable Lithium Ion battery
 - USB cable
- Protective Rubber Gloves
 - Available in a range of colors



Docking Station



Attachable Printer



Power Options



Protective Rubber Gloves

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%
 - Neonate ¹ $\pm 3 A_{rms}$ at 70 - 100%
 - Less than 70% unspecified
- Low Perfusion Accuracy
 - Adult / Ped $\pm 2 A_{rms}$ at 70 - 100%
 - Neonate ¹ $\pm 3 A_{rms}$ at 70 - 100%
 - Less than 70% unspecified
- Motion Accurac y²
 - 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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