

SPECTRO₂™ | 30 Digital Pulse Oximeter



Dependable results, plus the flexibility to perform in virtually any clinical setting

Utilizing BCI® patented technology, the SPECTRO₂™ | 30 pulse oximeter can be trusted for dependable readings on a wide range of patients in the most challenging situations.

Includes multiple operating modes with audible and visual alarms and the ability to be alerted through a remote nurse call system to ensure patient safety.

The SPECTRO₂™ | 30 oximeter enables healthcare providers to monitor for efficacy of respiratory treatments.

- At risk patients
- Sleep screening
- Post anesthesia recovery
- Analgesics monitoring

With its unique features and optional accessories, the SPECTRO₂™ | 30 oximeter can be customized to address the needs in most clinical settings.

For more information about the SPECTRO₂™ | 30 oximeter and its associated accessories, visit smiths-medical.com/bci.

● Low Perfusion Performance

● Motion Tolerance

● Multiple Operating Modes

● Visual, Audible and Remote Alarms

PATIENT MONITORING

SPECTRO₂™ Pulse Oximeter Series –
Designed With You in Mind

SPECTRO₂ | 30 Pulse Oximeter Features

Dependable readings for a wide range of patients in challenging situations

- Low perfusion performance and motion tolerance

PI (Pulse amplitude Index) Indicator

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

Versatility with multiple sensors

- Compatible with all BCI[®] sensors
- Nellcor[®] sensor compatibility¹

Visual, audible and remote alarms

- Alerts for potential clinical intervention
- Remote alarm operates through nurse call system

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 when not in use

Programmable modes

- Clinician, home and sleep modes

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

5-button keypad for menu navigation and device configuration; ON/OFF button

SpO₂ (FUNCTIONAL)

• Range

0 to 100% (1% increments); display maximum 99%

• Standard Accuracy

Adult / Ped ± 2 A_{rms} at 70 - 100%
Neonate¹ ± 3 A_{rms} at 70 - 100%
Less than 70% unspecified

• Low Perfusion Accuracy

Adult / Ped ± 2 A_{rms} at 70 - 100%
Neonate¹ ± 3 A_{rms} at 70 - 100%
Less than 70% unspecified

• Motion Accuracy²

Adult / Ped ± 3 A_{rms} at 70 - 100%
Less than 70% unspecified

• Averaging

2 (Sleep Mode only); 4, 8, or 16 pulses (default = 8)

• Alarms

High: off and 99 - 51, 1 step (%SpO₂) increments
Low: 50 - 99, 1 step (%SpO₂) increments

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** – ± 2 A_{rms}
- **Low Perfusion Accuracy**
 ± 3 A_{rms} over 25 - 250 bpm range
Less than 70% unspecified (Pulse amplitude <1%. Tested using industry standard simulator.)
- **Averaging**
8 or 16 seconds (default = 8); Sleep Mode = 8
- **Alarms**
High: 300 - 21 bpm in 1 bpm increments
Low: 20 - 299 bpm in 1 bpm increments

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 mains)**
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. 17 hours of continuous use
- **Rechargeable Battery Life**
Approx. 30 hours of continuous use (new);
Approx. 3 hours typical recharge time

MEMORY – Stores data for up to 99 patients

TREND STORAGE

- **Parameters**
%SpO₂, Pulse Rate, Pulse amplitude Index and absolute time from RTC
- **Interval**
Selectable from 2 to 30 seconds in 1 second intervals (2, 3, 4, 5,... 30)
- **Capacity**
72 hours of storage at 2 second intervals
- **External Connectors**
Oximeter Sensor DB-9 Connector; Custom interconnect allowing connection for either USB communications, AC Mains Power input, or dock connection with or without printer

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 – WW1030

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