

SPECTRO₂[™] | 30 Digital Pulse Oximeter

● Low Perfusion Performance

● Motion Tolerance

● Multiple Operating Modes

● Visual, Audible and Remote Alarms



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.

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

¹Tested 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
 - 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 $\pm 2 A_{rms}$ 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
 - 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 – $\pm 2 A_{rms}$
- 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 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