smiths medical bringing technology to life

SPECTRO₂ 30 Digital Pulse Oximeter



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

Utilizing BCI® patented technology, the SPECTRO[™]₂ |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 SPECTRO[™]₂ | 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 SPECTRO[™]₂ |30 oximeter can be customized to address the needs in most clinical settings.

For more information about the SPECTRO[™]₂ | 30 oximeter and its associated accessories, visit smiths-medical.com/bci.

PATIENT MONITORING

SPECTRO[™]₂ Pulse Oximeter Series – Designed With You in Mind



SPECTRO[™]₂ | 30 Pulse Oximeter **Features**

Dependable readings for a wide range of patients in challenging situations

• Low perfusion performance and motion

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

- 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

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



Power Options



Attachable Printer



Protective Rubber Gloves

Technical Specifications

DISPLAYS AND INDICATORS

Kevs

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 Arms at 70 - 100% Neonate¹ ±3 A_{rms} at 70 - 100% Less than 70% unspecified

Low Perfusion Accuracy

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

Motion Accuracy²

Adult / Ped ±3 Arms 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 Arms

Low Perfusion Accuracy

±3 A_{rms} over 25 - 250 bpm range Less than 70% unspecified (Pulse amplitude <1%. Tested using industry standard simulator.)

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

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

- **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

Information subject to change without notice. Please read the instructions for use supplied with the product for detailed instructions, warnings and cautions. For more information, please call Smiths Medical PM, Inc., at 262-542-3100 or 800-558-2345, or your Smiths Medical distributor.

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