The BCI® 3180 Plus Oximeter provides an exceptional value for everyday oximetry needs. This compact, stand-alone monitor delivers fast, reliable SpO₂, pulse rate and pulse strength measurements complete with a plethysmographic waveform, and up to 30 hours of on-screen trending. Plus, the bright liquid crystal display, easy-to-use menu, and audible and visual alarms enhance clinical efficiency and quality of care for patients ranging from neonate to adult.

For more information visit smiths-medical.com/bci.
BCI® 3180 Pulse Oximeter

- SpO₂, pulse rate and pulse strength measurements.
- Backlit liquid crystal display.
- Plethysmographic waveform.
- Up to 30 hours of on screen trended data for all parameters.
- Easy-to-operate menu structure.
- Audible and visual alarms.
- AC or battery power.
- Monitor patients ranging from neonate to adult.
- Genuine BCI® reusable and disposable sensors available.

Technical Specifications

Displays
- Display: Backlit LCD
- Resolution: 240 x 64 pixels
- Waveform: Plethysmogram
- Graphic Trends: SpO₂, pulse rate (heart rate), pulse signal strength and respiration
- SpO₂: SpO₂ value, high and low alarm limits
- Pulse Rate: Pulse rate value, high and low alarm limits
- Pulse Strength: Logarithmically scaled 8-segment bar graph

Indicators
- Low Battery: Low battery icon when 10 minutes of battery life remain
- Audio Status: Yellow LED and displayed symbol indicates alarm audio paused (2 min) or indefinite
- SpO₂ Sensor: Message indicates sensor problem
- SpO₂ Search: Message indicates monitor is searching for a pulse
- Small Pulse: Message indicates oximeter signal strength is low
- Charge: Green CHARGE LED indicates external power and battery is charging
- Lost Pulse: Message indicates monitor has lost the signal
- SpO₂: Range
  - 0 to 100% SpO₂ (functional)
  - Accuracy
    - Adult: ±2% at 70-100%
    - Neonate: ±3% at 70-100% SpO₂
    - <70% unspecified

Pulse Rate
- Range: 30-254 bpm
- Accuracy
  - ±2 bpm or ±2% (whichever is greater) at 30-254 bpm
- Alarm Range
  - High: 30-254 bpm and OFF (1 bpm steps)
  - Low: 30-254 bpm and OFF (1 bpm steps)
- Averaging: 8 or 16 second average

Power Requirements
- Two voltage ranges selected by external switch
  - 90-125 VAC, 50/60 Hz
  - 200-240 VAC, 50/60 Hz

Battery Life
- Standard lead-acid 6 VDC battery: Internal rechargeable approximately 4 hrs of continuous use (new) approximately 7 hrs of charge time

Printer Output
- Serial infrared link–real time patient data RS232C trend table output

Dimensions
- 8" W x 6.5" H x 5" D (20.3 cm W x 16.5 cm H x 12.7 cm D)

Weight
- 4.5 lbs. (2kg)

Environmental
- Operating Temperature: 32°F to 131°F (0°C to 55°C)
- Storage Temperature: -40°F to 167°F (-40° to 75°C)
- Relative Humidity: 10-95% (non-condensing)

Catalog Number
- 3180 Pulse Oximeter

Standards
- EN60601-1 (IEC 601-1)
- UL 2601-1 and CAN/CSA 601.1
- CAN/CSA NRTL/C

Regulatory Compliance
- ISO 9001/ISO 13485

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