

Autocorr® Digital Pulse Oximeter



The BCI® Autocorr® Digital Pulse Oximeter looks at pulse oximetry data in a unique way. Its patented Serial Autocorrelation (SAC) technology allows the BCI® Autocorr® to give reliable readings even in your most challenging situations such as those where motion artifact is present and with patients having low perfusion. What's more, this accurate, cost-effective technology is readily adaptable to clinical, home and sleep study environments.

For more information visit smiths-medical.com/bci.

PATIENT MONITORING



Autocorr® Digital Pulse Oximeter

- Reliably measure SpO₂, pulse rate and pulse Strength.
- Uses refined hardware and a patented algorithm to identify artifact and read through motion.
- Analyzes digitized signal at a rate of 120 times per second, creating dynamic templates to validate latest signals.
- Digital, analog and nurse call output via optional cables.
- Real time or trend printouts available when used with a computer and printer.
- Remote alarm function available.
- Internal rechargeable battery.
- Genuine BCI® reusable and disposable sensors available.

Technical Specifications

DISPLAYS, INDICATORS AND KEYS

- **SpO₂**
3-digit LED display
0.43 inch (10.9 mm) high
- **Pulse Rate**
3-digit LED display
0.43 inch (10.9 mm) high
- **Pulse Strength**
Logarithmically scaled 8-segment LED bar graph
- **Low Battery**
LED flashes when approximately 30 minutes of battery life remains
- **Alarm Silence**
LED flashes to remind the user that audio alarms are disabled
- **Sensor**
LED flashes to alert the operator to check the SpO₂ sensor placement
- **Lost Pulse Alarm**
Flashing % SpO₂ dashes indicate the sensor no longer detects a pulse while a finger is inserted into it (a pulse must previously be detected in order to get this alarm)
- **Brightness**
Adjustable brightness of SpO₂, pulse rate, and bar graph displays
- **Search**
Light indicates the monitor is looking for a pulse
- **Artifact**
Light indicates the presence of excess motion or other artifact
- **Power**
Green color indicates monitor is connected to AC power

SpO₂

- **Range**
0 to 100% SpO₂ (functional)
- **Accuracy**
±2% at 70-100%; ±3% at 50-69% (no motion)
±3% at 70-100% (motion)
- **Averaging**
4, 8, or 16 pulse beat average
- **Alarm Range**
High: 50 to 100% and OFF (1% steps)
Low: 50 to 99% and OFF (1% steps)

PULSE RATE

- **Range**
30 to 254 bpm
- **Accuracy**
±2% at 30-254 bpm (no motion)
Unspecified (motion)
- **Alarm Range**
High: 5 to 250 bpm and OFF (1 bpm steps)
Low: 5 to 250 bpm and OFF (1 bpm steps)
- **Averaging**
8 or 16 second average

POWER REQUIREMENTS

- **Wall Mount AC Charger**
105-125 VAC, 60 Hz
90-110 VAC, 60 Hz (optional)
- **Table Top AC Charger**
208-252 VAC, 50/60 Hz (optional)
- **Battery**
Standard lead-acid battery

BATTERY LIFE

Internal rechargeable, not user replaceable. Fully charged in 6 hours. Approximately 4.5 hours of continuous use.

PRINTER OUTPUT

- **Data Log Mode**
SpO₂ and pulse rate can be printed every five seconds
- **Trend Printing**
Data saved every four to thirty seconds can be printed
- **Optional Cables**
Analog Output, Digital Output and Nurse Call

DIMENSIONS

- **Base Unit**
3.24" H x 8.5" W x 5.5" D
(8.2 cm H x 21.6 cm W x 14 cm D)

WEIGHT

30 oz. (850 grams)

ENVIRONMENTAL

- **Operating Temperature**
32°F to 104°F (0°C to 40°C)
- **Storage Temperature**
-40°F to 167°F (-40°C to 75°C)
- **Relative Humidity** (non-condensing)
10-95% (storage)
15-95% (operating)

MECHANICAL DURABILITY TEST RESULTS

- **Vibration Testing**
In compliance with IEC 68-2-6, IEC 68-2-34
- **Shock Testing**
In compliance with IEC 68-2-27
- **Drop Testing**
Exceeded UL544 testing recommendations

STANDARDS

EN60601-1 (IEC 60601-1), UL544, EN60601-1-1, EMC: EN60601-1-2

REGULATORY COMPLIANCE

ISO 9001/ISO 13485

CATALOG NUMBER

- 3304

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