

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**

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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