

# smiths

The Smiths Medical PM, Inc.

## ADVANTAGE

- Patented Serial Autocorrelation (SAC) technology identifies pulse detection artifacts
- Analyzes digitized signal at a rate of 120 times per second, creating dynamic templates to validate latest signals
- Features 3- or 5-lead ECG with pacemaker detect/reject and respiration rate
- Bright, dual trace electroluminescent display
- Optional recorder provides crisp, high-resolution printing
- Optional mounting assemblies enhance system flexibility
- Genuine BCI® reusable & disposable sensors available

## AUTOCORR® PLUS PULSE OXIMETER/ECG MONITOR

A clear plus for you...  
artifact-indicating SAC pulse oximetry  
technology with 3- or 5-lead  
ECG versatility.



**AUTOCORR® PLUS PULSE OXIMETER/ECG MONITOR** is the cost-effective, easily transportable multi-parameter monitor that takes pulse oximetry to another level. Plus, 3-or 5-lead ECG and respiration capabilities expand your monitoring options. Add other parameters as needed for demanding clinical environments with our extensive family of advanced monitoring solutions. For more information, visit [smiths-medical.com](http://smiths-medical.com).

# AUTOCORR® PLUS PULSE OXIMETER/ECG MONITOR

## SPECIFICATIONS:

### Displays & Indicators:

#### Displays:

Display	Electroluminescent
Resolution	160 x 80 pixels
Waveforms	ECG, Plethysmogram
Graphic Trends	SpO <sub>2</sub> , Pulse Rate (Heart Rate), Pulse Signal Strength & Respiration
SpO <sub>2</sub>	3-digit (LED display) .56 inches (14.2 mm high)
Pulse Rate/ Heart Rate (ECG)	3-digit (LED display) 0.43 inches (10.9 mm) high
Pulse Strength	Logarithmically scaled 10-segment LED bar graph
Respiration	3-digit 10 x 14 pixel font (EL Panel)

#### Indicators:

Low Battery	LOW BATTERY message when 10 minutes of battery life remains
Audio Disabled	SILENCED BELL icon indicates temporary or indefinite status
Asystole Alarm	ALARM LED will flash, ASYSTOLE message on screen flashes
Lost Pulse Alarm	ALARM LED will flash, LOST PULSE message on screen
SpO <sub>2</sub> Sensor	Message indicates sensor problem
SpO <sub>2</sub> Search	Message indicates monitoring is searching for a pulse
Artifact	Message indicates the presence of excess motion or other artifact
ECG/Lead Fail	Message indicates a lead disconnect condition
Charge	Green LED indicates external power and battery is charging
Pace Detect	A line appears on screen when pacemaker signal is detected

### SpO<sub>2</sub>:

Range	0-100% functional SpO <sub>2</sub>
Accuracy	±2% at 70-100%; ±3% at 50-69%
Averaging	4, 8, or 16 pulse beat average
Alarm Range	High - 50%-100% & OFF (1% steps) Low - OFF & 50%-100% (1% steps)

### Pulse Rate (SpO<sub>2</sub>) or Heart Rate (ECG):

Range	30-254 bpm
Accuracy	> of ±2% or ±2 bpm
Alarm Range	High - 30-254 bpm & OFF (1 bpm steps) Low - OFF & 30-254 bpm (1 bpm steps)
Averaging	8 or 16 second average

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Please read the Instructions for Use supplied with the product for detailed instructions, warnings, and cautions.

### ECG:

Configuration	3- or 5-lead
Lead Selection	I, II, III, aVR, aVL, and V
Gain	X1, X2, X4, X8
Pace Detect	Yes
Pace Reject	Yes
Sweep Speed	12.5 or 25 mm/sc

### Respiration:

Measuring Method	Impedance Pneumography
Rate	5 to 150 breaths/min
Accuracy	> of ±2% or ±2 breaths per minute over full range

### Printer:

Output	Serial/Analog - RS232C serial output of data Optional digital (remote alarm) interface cable
Optional	Catalog #3408 Printer provides data log (Interval) trends & waveform printouts

### Power:

Battery	Standard Lead-Acid battery:
Battery Life	Internal rechargeable, not user replaceable. Fully charges in 6 hours. Approximately 45 mins. continuous use.
AC Charger	Wall Mount 105-125V ~, 60Hz 100V ~, 50 Hz (opt.) Table Top 230V ~, 50/60 Hz

### Physical:

Dimensions	3.5" H x 10.0" W x 5.5" D 8.89 cm x 25.4 cm x 13.97 cm
Weight	5 pounds (2.27 kg)

### Environment:

Operating Temperature	32°F to 131°F (0°C to 55°C)
Storage Temperature	-40°F to -167°F (-40°C to 75°C)
Relative Humidity (non-condensing)	10-95% (storage) 15-95% (operating)

### Standards:

EN60601-1 EN60601-1-1, UL 544, CSA Std. C22.2 No. 125-1984, EMC: EN60601-1-2

### Regulatory Compliance:

510(k): K981939  
ISO 9001/ISO 13485



### Catalog Number:

3404-001	Autocorr® Plus Pulse Oximeter/ECG/Respiration Version
3404-000	Autocorr® Plus Pulse Oximeter Oximetry Only Version
3408	Graphics Printer
Available Languages: English, German, French, Italian, Spanish, Portuguese	

**Q-Line for U.S.A. Customers** call 1-800-348-1842 for emergency and clinical application information 24 hours a day, 365 days a year. Experienced Clinical Specialists will return your call and assist with any questions you may have.

For more information, please call Smiths Medical PM, Inc. Patient Monitoring and Ventilation at 262-542-3100 or 800- 558- 2345 or your Smiths Medical distributor

**smiths**

**Smiths Medical PM, Inc.**

Patient Monitoring and Ventilation  
N7 W22025 Johnson Drive, Waukesha, Wisconsin 53186 USA  
Phone: 262-542-3100 Fax: 262-542-0718 Toll-Free: 800-558-2345  
www.smiths-medical.com

The product described is covered by U.S. Patent Nos. 5,558,096; 5,615,091  
BCI and Autocorr are trademarks of the Smiths Medical family of companies  
The symbol © indicates it is registered in the U.S. Patent and Trademark Office and certain other countries.  
© 2004 Smiths Medical family of companies. All rights reserved  
BCI 3404 Rev 04 10/04