

## Features - SA-2000 Series

- ◆ Small Self Contained Package
- ◆ Line Voltage Measurement
- ◆ Device Under Test Current Measurement
- ◆ Earth/Ground Lead Resistance/ Leakage Current
- ◆ Point-to-Point Testing
- ◆ Enclosure/Chassis Leakage Current
- ◆ External Resistance
- ◆ External Leakage Current
- ◆ Source Receptacle Wiring Integrity Monitor
- ◆ MAP (Isolation) Function
- ◆ Built-In ECG Simulator
- ◆ True RMS Measurements
- ◆ AAMI ES1-1993 or IEC 601 Selectable Test Loads
- ◆ 85 to 265 VAC Operation
- ◆ Full 20 amp Rating
- ◆ Touch Control Keys - No Knobs
- ◆ LED Status Indicators
- ◆ Audio Feedback
- ◆ Self-Test Points
- ◆ Externally Replaceable Ground Fuse
- ◆ Automatic Load Reversal Delay
- ◆ Soft Carrying Case

## Optional

- ◆ External Point-to-Point (Red) Cable

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# SAFETY ANALYZERS

## BC Biomedical SA-2000 Series



**SA-2010S**

The SA-2000 Series is a Microprocessor based Electrical Safety Analyzer Family. There are 5 models that provide everything from the most basic testing functions to the most complete set of features of any handheld unit on the market.

The compact size makes the SA-2000 Family easy to hold and operate. All models operate from 85 to 265 Volts @ 50/60 Hz, with Load Currents up to 20 Amps, so there is no need to purchase 2 different analyzers to cover your testing needs. The SA-2010S is the smallest safety analyzer available with a built-in ECG Patient simulator.

The SA-2000 Family of Safety Analyzers allows the user to choose the model that best fits the application. The combination of the best features at the best price makes this Family of products a natural choice.

All models come with a soft case and Chassis (Black) cable. An optional External Point-to-Point (Red) cable is also available.



# BC BIOMEDICAL SA-2000 SERIES

## SPECIFICATIONS



SA-2000



SA-2001

|                  | SA-2000   | SA-2001   | SA-2005   | SA-2010   | SA-2010S  |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Voltage (Input)  | 85 to 265 | 85 to 265 | 85 to 265 | 85 to 265 | 85 to 265 |
| Current (Rating) | 20        | 20        | 20        | 20        | 20        |

| Measures:            |   |   |   |   |   |
|----------------------|---|---|---|---|---|
| Voltage (VAC)        | No  | 85 to 265<br>(± 3% R)   | 85 to 265<br>(± 3% R)   | 85 to 265<br>(± 3% R)   | 85 to 265<br>(± 3% R)   |
| Current (amps)       | No  | 0 to 19.99<br>(± 5% R)  | 0 to 19.99<br>(± 5% R)  | 0 to 19.99<br>(± 5% R)  | 0 to 19.99<br>(± 5% R)  |
| Leakage Current (µA) | 0 to 1999<br>DC & 25 to 1 kHz (± 1% R)<br>1 kHz to 100 kHz (± 2.5% R)<br>100 kHz to 1 MHz<br>(± 5% R) | 0 to 1999<br>DC & 25 to 1 kHz (± 1% R)<br>1 kHz to 100 kHz (± 2.5% R)<br>100 kHz to 1 MHz<br>(± 5% R) | 0 to 1999<br>DC & 25 to 1 kHz (± 1% R)<br>1 kHz to 100 kHz (± 2.5% R)<br>100 kHz to 1 MHz<br>(± 5% R) | 0 to 1999<br>DC & 25 to 1 kHz (± 1% R)<br>1 kHz to 100 kHz (± 2.5% R)<br>100 kHz to 1 MHz<br>(± 5% R) | 0 to 1999<br>DC & 25 to 1 kHz (± 1% R)<br>1 kHz to 100 kHz (± 2.5% R)<br>100 kHz to 1 MHz<br>(± 5% R) |
| Resistance (ohms)    | 0 to 19.99<br>(± 1% R)<br>10 mA   | 0 to 19.99<br>(± 1% R)<br>10 mA   | 0 to 19.99<br>(± 1% R)<br>10 mA   | 0 to 19.99<br>(± 1% R)<br>10 mA   | 0 to 19.99<br>(± 1% R)<br>10 mA   |

|                        |           |     |     |     |     |
|------------------------|-----------|-----|-----|-----|-----|
| Patient Leads          | 0         | 0   | 5   | 10  | 10  |
| MAP (Isolation)        | No        | No  | Yes | Yes | Yes |
| Built-In ECG Simulator | No        | No  | No  | No  | Yes |
| AAMI & IEC Loads       | AAMI Only | Yes | Yes | Yes | Yes |
| Point-to-Point         | No        | Yes | Yes | Yes | Yes |
| Test Points            | No        | Yes | Yes | Yes | Yes |

| Test Capability: |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|
| Open Ground      | Yes | Yes | Yes | Yes | Yes |
| Reverse Polarity | Yes | Yes | Yes | Yes | Yes |
| Open Neutral     | Yes | Yes | Yes | Yes | Yes |
| Open Line        | Yes | Yes | Yes | Yes | Yes |

|        |                    |                    |                    |                    |                    |
|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size   | 8.7" x 5.5" x 1.6" | 8.7" x 5.5" x 1.6" | 8.7" x 5.5" x 1.6" | 8.7" x 5.5" x 1.6" | 8.7" x 5.5" x 1.6" |
| Weight | 2 lbs              | 2 lbs              | 2.5 lbs            | 2.5 lbs            | 2.5 lbs            |



SA-2005



SA-2010

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