

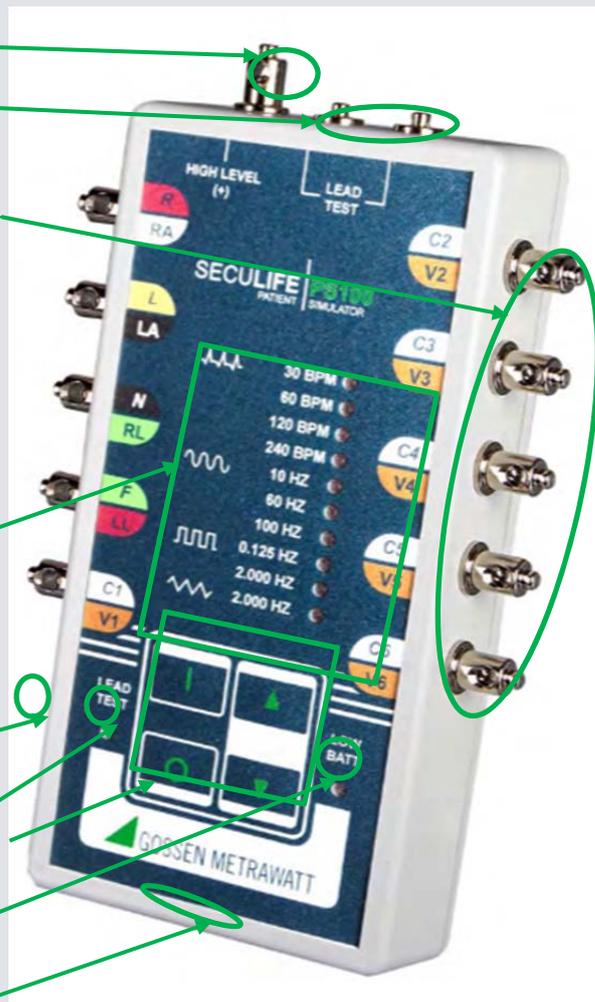
QUICK SETUP GUIDE

SECULIFE PS₁₀₀



The Model SECULIFE PS₁₀₀ is a microprocessor based Patient Simulator. It provides ECG Simulation with four waveforms with constant QRS duration and six machine performance testing waveforms.

- High-Level-Output (+)
- Lead Test terminals
- Universal patient lead connection
(V2/C2, V3/C3, V4/C4, V5/C5,
V6/C6, RA/R, LA/L, RL/N (-), LL/F, V1/C1)
- 10 waveforms with LED indicators for selection:
 - 30, 60, 120, 240 BPM
 - Performance wave selection:
 - Sinus: 10, 60, 100 Hz
 - Square: 0,125, 2.000 Hz
 - Triangle: 2.000 Hz
- Battery eliminator receptacle
- 4 light touch keys for power and waveform selection
(On, Off, Up, Down)
- Lead test indicator (LED)
- Low battery indicator (LED)
- 9V Battery compartment



Universal Patient Lead Connectors

The 10 Universal Patient Lead Connectors allow for 12 lead ECG simulation with independent outputs. AHA and IEC color-coded labels are located on the face of the unit to aid in connecting the corresponding AHA and IEC Patient Leads.

AHA-Label	IEC-Label	Description
RA	R	Right arm
LA	L	Left arm
RL	N	Right leg (reference or ground)
LL	F	Left leg
V1	C1	V Leads (V1-V6) (U.S. and Canada) Also referred to as pericardial, Precordial or unipolar chest leads Chest Leads (C1-C6) International
V2	C2	
V3	C3	
V4	C4	
V5	C5	
V6	C6	



High-Level-Output (+)

An additional Universal Patient Lead Connector is located on the top of the unit for connecting the high level ECG output signal (1 Volt p-p). The connection is between the High Level (+) and RL/N (-) Patient Lead Connectors.

Waveform Selection

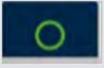
There are two keys and 10 LEDs in the Waveform Selection Control Section. The LEDs indicate which waveform is generated.

The keys   sequentially select each waveform. The microprocessor sends the stored waveform information of the selected waveform to a Digital to Analog converter that generates an accurate analog representation. This waveform is then sent through a resistor network, developing the appropriate signals on the output terminals.

Lead Test Terminals

There are two test terminals on the top of the unit that allow for a quick test of the continuity of the lead cables. Connecting one end of the cable to one terminal and the other end to the other terminal will test the cable. If the cable is OK (less than 1000 ohms), the LEAD TEST LED in the lower left of the face will light.

Power keys

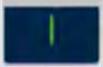
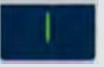
The   keys control the power for the unit.

Auto Power off

The unit will automatically turn off after 10 minutes of no key activity to conserve the battery.

To override this feature and keep the unit on continuously, depress the key  twice after the unit is on. This will keep the unit on until it is manually turned off. The "Low Batt" LED will illuminate for 3 sec to indicate that the Auto Power Off feature has been turned off.

Percent of Battery Life Indicator (in %)

The unit provides an indication of the Percent of battery life left on the 9 Volt Alkaline Battery. An analog to digital converter monitors the battery voltage. Continuously holding down the key  will change the 10 waveform LEDs into a Percent of Battery Life display, with each LED representing 10 % intervals. The indicator will strobe up to the present level and flash. This sequence will continue while the  key is depressed.



Battery

The unit utilizes a 9 Volt Alkaline Battery in the rear battery compartment. When the unit detects a LOW BATTERY, the LED in the lower right of the face will light, indicating the need to change the battery.

Battery Eliminator Input

2.1 mm receptacle is provided for the optional 9 VDC Battery Eliminator power supply that may be used for continuous run applications. It bypasses the internal battery when plugged in.

NOTE

The unit is shipped with a Red Battery Lock-Out plug installed into the line power connector as shown below. Its purpose is to prevent the unit from accidentally being turned on during handling and transport, subsequently depleting the battery. This plug must be removed before any use.

GMC INSTRUMENTS

 **GOSSEN METRAWATT**

 **CAMILLE BAUER**