

## MEDI+PRODUCTS

PRODUCTS BY MEDICANIX INC.

## Emergency Power System: SACS – T Series



# **Owner's Manual**

MEDICANIX INC.

## **SACS T-Series Owner's Manual**

Medicanix Inc. 30 Nurney St. Stamford, CT 06902 Phone 203.324.3711 • Fax 203.487.7423

## **Table of Contents**

Product Inf	ormation	1
Parts:		1
Standa	ard System Parts that may require assembly:	2
Safety War	nings and Disclaimer	3
Locati	on Install Warnings:	3
Intend	led Use and Equipment & Wiring Connections:	3
MEDIO	CAL USAGE	4
	SAFETY NOTICE & DISCLAIMER	.4
	STATEMENT OF LIABILITY IN MEDICAL ENVIRONMENTS	.4
Operation &	& Maintenance	5
Syster	m Operation:	5
	Line Charge Only:	. 5
	We recommend keeping this function selected for any of the following	
	scenarios:	. 5
	Auto Invert:	. 6
	We recommend keeping this function selected for any of the following	
	scenarios:	. 6
	LINE LED:	. 6
	Inverting LED:	. 6
	Heavy Load LED:	. 6
	Battery Level LED Indicators:	.7
Mainte	enance Procedures	7
	Maintenance – User/Owner	.7
	Maintenance and Troubleshooting – Qualified Technical Support	. 8
	Weekly Testing:	. 8
	Monthly Testing:	. 8
	Example: 12 hour run time = Monthly test 3 hours	. 9
	Annual Load Testing:	. 9
Installation	Record Keeping:   & Startup   1	.9 1
	•	

INSTALLATION NOTES	11
Electrical Connections	15
BATTERY INSTALLATION & REPLACEMENT	15
(Optional) Remote Monitoring System - Setup & Users Instruction	ions
	17
Installation Requirements:	17
Programing and Setup:	17
2) SET THE DIAL OUT PHONE NUMBERS:	17
Using the (optional) Remote Alert System:	18
Important Note: Acknowledging Alerts	18
START-UP NOTES	19
OPERATIONAL MODES	20
WARRANTY ACTIVATION FORM	21

## **Product Information**

(Required information when calling for service)

Date of Purchase:

Serial Number:

Facility Information:



## **Parts:**

**Standard System Parts that may require assembly:** 

- Battery Box Assembly
- Battery Box Sub Assembly (for Systems that include over 6 Batteries)
- 2 Side Mounting Rails
- Batteries (number varies with Model Number)
- Battery Cable Harnesses/Assemblies
- Battery Alarm (24 or 48 Volt units only)
- <sup>1</sup>/<sub>4</sub>-20 Truss Screws (for side Mounting Rails)
- #8 Driller Screws (for battery box assembly and covers)
- BX Cable Connectors
- Top and Bottom Mounting Rails and attachment fasteners

## **Safety Warnings and Disclaimer**

### **Location Install Warnings:**

- Insure you are installing in a structurally sound area as these UPS systems are extremely heavy. Also take special care when moving or lifting the system
- Leave adequate space around the system for proper ventilation and do not store or lean item against the system which will prevent the ventilation needed for the system to function.
- Do not locate in high traffic areas where the possibility of impact can be foreseen.

### **Intended Use and Equipment & Wiring Connections:**

- This system is not intended to support life or run life supporting equipment but rather to power surgical appliances needed in superficial surgical procedures. When used with-in a surgery environment do not use in the presence of flammable anesthetic mixtures with air oxygen or nitrous oxide.
- This UPS system stores energy. Output battery terminals and possibly output breakers or outlets may possibly be live when the system is turned off or after the input power has been disconnected.
- Please be sure to electrical, isolate the UPS entirely before working on the unit.
- Please be sure that the power supplied to this unit is the proper phase, voltage and amperage specified.

### **MEDICAL USAGE**

#### **SAFETY NOTICE & DISCLAIMER**

1. All hardwired SILENT SENTRY units should be installed by licensed, professional personnel in accordance with local and national codes.

2. The unit should be installed in an area kept at controlled room temperature or somewhat cooler (60 - 70°F).

3. Although the system is supplied with sealed VRLA batteries they are not *leakproof*. We recommend the unit should not be located near explosive medical gas storage or open flame heaters or electric spark-inducing equipment.

#### STATEMENT OF LIABILITY IN MEDICAL ENVIRONMENTS

- The *SILENT SENTRY<sup>IM</sup>* is not to be relied upon as a primary emergency power source for life-support equipment. Its use is intended for the supply of emergency power to appliances which may be employed in non life-threatening medical procedures. It is imperative that it is understood that at no time should a patient remain unattended. At this writing the FDA has no classification for a general-purpose medical emergency power supply. This system is not a medical device.
- All life-support type equipment, life-signs monitors, gas monitors etc. are expected to have their own built-in F.D.A. approved appliance-specific energy sources and be maintained correctly. General room lighting and exit signs are also expected to have multiple independent energy sources.
- If life-supporting equipment is to be powered by any sort of electrical source or device it is MEDI-PRODUCT'S expectation that <u>several</u> alternative independent power supply sources and devices be available.
- Appliances such as refrigerators and freezers and the contents being stored within them are the responsibility of the owner/operator to see that they are monitored, maintained and tested. Consequential damages and loss of perishable merchandise are not the liability of Medi-Products/Medicanix.

## **Operation & Maintenance**

## **System Operation:**

On the center of the black panel in the front of the power system is a control switch.

This will toggle the system between Auto Invert, and Line Charge Only.



#### Line Charge Only:

Move the switch to this position whenever there **is not** equipment operating off of the system. This selection put the system in a "charge only" state. The Input utility power will still feed thru the system powering the unit's output receptacles or breakers however if the input power were to be unplugged or cut off the system will completely shut down.

The "Line/Charge Only" LED will flash to remind you that the battery power in standby.

## We recommend keeping this function selected for any of the following scenarios:

1) At an outpatient surgery while there are <u>no surgical procedures taking place</u>.

2) If the unit is not being used or in storage.

Having it in this position will ensure that the batteries will not be discharged if the power were to go off in the middle of the night or during the weekend.

#### **Auto Invert:**

Move the switch to this position whenever there <u>is</u> equipment being backed up by the system. This selection puts the system in a "standby" state. The Input utility power will be feed thru the system powering the unit's output receptacles or breakers, but as soon as a power outage occurs the system will automatically transfer over the battery.

#### We recommend keeping this function selected for any of the following scenarios:

1) While surgical procedures taking place. (remember to switch it back to line charge only as soon as the procedure is over)

2) If the unit is being used for standby power to support an appliance such as a refrigerator or freezer.

Having it in this position will keep the supported equipment running if the power were to go off in the middle of the night or during the weekend.

#### **Operating Mode LED Light Indicators:**

#### LINE LED:

This is a green light that is continuously on whenever the supported equipment is receiving utility power and the switch is on Auto Invert. This means that the system will automatically switch over to battery power if input power is lost.

If the Systems is switched to Charge Only, the light will flash intermittently. In this state the supported equipment will still receive utility power but the system will not continue to supply power if the utility power were to be disconnected.

#### **Inverting LED:**

This is a yellow light, which will turn on continuously, if the supported equipment is receiving power from the battery. This light will flash if the system does not detect the minimum load necessary to supply power indicating the system is in "search mode".

#### Heavy Load LED:

This is a red light will turn on when your Inverter/Charger is receiving utility power but the load is somewhere between 80% and 110% of the system's capacity. This is to alert you that the inverter will not be able to support the load if the utility input power were to fail.

This light will flash if the system shut itself down due to a severe overload.

#### **Battery Level LED Indicators:**

There are three LED lights on the left side of the panel which show the approximate charge/and discharge level of the systems batteries.

The following chart indicates these levels:

LED Indicator	Approximate Level
Green	96% - Full
Green & Yellow	81% - 95%
Yellow	61% - 80%
Yellow & Red	41% - 60%
Red	21% - 40%
All Off	1% - 20%
Red Flash	0% (System shutdown)
Three - Slow Flash	Batteries Discharged Excessively
Three – Fast Flash	Batteries are Overcharged

### **Maintenance Procedures**

#### Maintenance – User/Owner

The MEDI+Products Silent Sentry contains virtually no moving or lubricated components and therefore requires almost no user maintenance except testing and recordkeeping.

The user should be aware that by their nature, battery life is negatively affected by some usage patterns. Of course, batteries are intended to be used, but minimizing deep discharges, and frequent charge / discharge cycles will extend overall life. Their life expectancy will be generally in the range of four to five years. Please refer to the section on Battery Testing for more on this subject. If the appliance(s) supported are intermittently used – as in the case of surgery, for example – it is recommended that the inverter's 'Auto-On' feature be inhibited (turned off). In the case of refrigeration support, the 'Auto-On' should be enabled and its functionality be confirmed by test.

Records should be kept of battery tests as well as incidents causing battery discharges, including date, rate of discharge, length of discharge, name of person doing the test, &c.

The system has a battery voltage alarm which will sound below 11.5 and above 15 volts DC. Battery voltage indicators should be checked if the alarm sounds. Often a low battery alarm will result from a tripped supply breaker in the main building electric panel. If this is not the cause, please contact MEDI+Products promptly.

#### Maintenance and Troubleshooting – Qualified Technical Support

Adjustments can be made to the inverter module. Please refer to the supplementary inverter manual.

A large amount of energy is stored in the batteries which can cause injury to unqualified persons attempting to effect repairs. Also, no-one untrained with regard to electrical energy should attempt any service task or remove any of the front covers as live circuits will be exposed in all cases.

Eye protection should be worn by any person connecting or disconnecting batteries and battery cables.

Hand-washing is recommended for any person handling batteries.

Various battery connection patterns are used on several model variations. Battery replacements must follow the original factory configuration.

Troubleshooting charts for the inverter modules are within the supplementary inverter manual.

Battery 'float voltage' should be 13.5 - 13.8 VDC for nominal 12 volt systems. Higher voltages will be observed for 'bulk' and 'absorb' stages for preset time periods after a recharger restart, but should not exceed 15.5 except very briefly. Nominal 24 and 48 volts systems will be 27 - 27.6 and 54 - 55.2 respectively.

## **Testing Procedures**

Standards of testing the power system must be implemented and carried along with regular testing.

Medi-Products sets out the following guidelines and instructions that must be understood and implemented for the use and dependence on our battery backup generators.

Weekly, Monthly and Annual load tests must be performed, recorded and documented. The following criteria must be followed in order to complete each test:

#### Weekly Testing:

The recommended weekly test is a quick and simple test which assures the functionality of the transfer switch, auto-invert and charge mode.

This test is performed by disconnecting the power that feeds the battery backup unit or if your system is a plug and play standalone system, unplug its power cord. Upon disconnecting the feed power, your system should switch over to invert mode and draw its power from the batteries. At this point you should be sure your refrigerator is still on and running.

After you have ensured that your system has switched over and inverting, you will need to restore the feed power (or replug the system in for mobile system. This test should not last more than 2 to 3 minutes.

#### Monthly Testing:

The monthly test is a load test that needs to be conducted no sooner than 20 days and no longer than 40 days from the prior (monthly) load test. This test is to ensure the generator can last 25% of its intended runtime. Your runtime is predetermined amount of time that your refrigerator will run on the battery backup. This would have been calculated at the time you have purchased the unit.

For the week you are performing the monthly test it is not necessary to also preform the weekly test.

#### Example: 12 hour run time = Monthly test 3 hours

Another important issue to take note of is that it is possible to over test your power system. Medi-Products battery backup systems use of AGM batteries, which they are discharged too frequently or discharged too deeply it can cause damage to the batteries, shorting their life expectancy and weakening them.

Record all the testing data on the test record sheet provided by Medi-Products.

#### Annual Load Testing:

This test is to ensure that your system can provide enough power for its intended use. It is important to understand that each system is generally sized to meet predetermined design criteria that pertains to the particular make and model of your refrigerator or freezer that is necessary to stay powered on in the event of a power outage. The primary objective of this test must be to ensure that the system is able to meet the needs of an anticipated emergency situation.

For the week and month you are performing the annual test it is not necessary to also preform the weekly or monthly test.

Disconnect the supply power to the system and run the appliance for the amount of backup time it is intended to power. Record the duration that the system was supplying power.

You may want to set a timer to remind you to restore the input power to the system and not over discharge the batteries. Reconnect the input power and recharge the battery bank. This may take several hours.

#### **Record Keeping:**

Recording these tests is important for the protection of your vaccines and costly inventory. You can use our test logs that are in our service manuals and on our download from our website.

## Weekly Test Log:

Date:	Test End Time:	Test Start Time:	Status:	Tested by:

## Monthly Test Log:

Date:	Test End Time:	Test Start Time:	Status:	Tested by:

## Annual Test:

Date:	Test End Time:	Test Start Time:	Status:	Tested by:

## **Installation & Startup**

#### **INSTALLATION NOTES**

The Silent Sentry system is shipped in several sections plus the batteries. The first step is to attach the upper electronic cabinet to the lower battery cabinet (s). At this point it should be determined how and where the system will be mounted. If it is to be mounted flush-on the wall, then the flanges should be installed flush with the back of the unit. Unless otherwise specified, the battery box modules will be preassembled to the stud-mounting flanges for 3-1/2" inset-mounting. This can be changed for flush mounting or for less than 3-1/2" inset mounting. If it is desired to relocate the stud-mounting flanges please note the following:

- The mounting flanges are left and right handed. To change from inset-mount to flush-mount, the flanges will have to be completely removed and reinstalled on the opposite sides.
- We recommend working on a flat surface. We also recommend that when aligning battery box modules it is easiest to first align the boxes using the sheet metal screws rather than the ¼-20s. The use of a thread tap runner also may be helpful.

The electronic cabinet mounting flanges can then be attached with the  $\frac{1}{4}$ -20 x  $\frac{3}{8}$ " machine screws provided. This is done by engaging the interlocking sheet metal flanges and attaching with the sheet-metal screws provided. The studmounting flanges also serve to provide structural rigidity. The top and bottom flanges are optional trim items.

Also, if wallboard is already in place, and this is a "hard-wired" unit, cabling should be done before installation. Typically a "home-run" cable to the main supply panel's 30A 120V breaker should be in place, as well as cables to the branch circuits. The use of "nut-less" cable connectors is recommended if cable connections are through the top of the cabinet. Alternately, holes can be punched for 90° connectors in the cabinet rear near the circuit breakers.

If the wall framing studs are on 24" centers it is recommended that the wall cavity be cut adjacent to one of the existing studs and an additional short support stud be added. This stud can be simply be inserted through the wall opening, set on the wall-bottom-plate and fastened through the sheetrock. Larger 6 or 8 battery systems should be mounted on double studs each side.

The system, with mounting flanges attached, should be stood on support-blocks close to the wall-opening and the cables connected. After cable connectors are in place, the system can be lifted into the wall opening and fastened to the studs.



SUGGESTED SOLUTION FOR SUPPORT IN THE CASE OF 24" FRAMING AND A MAXIMUM 400 AMP HOUR BATTERY SYSTEMS. FOR OVER 400 AMP HOURS USE DOUBBLE STUDS OR 4X4 FRAMING.





### **Electrical Connections**

## **BATTERY INSTALLATION & REPLACEMENT**

Batteries should be replaced every 4 or 5 years. Battery replacements should be of the same size and type as those originally provided and can be ordered from MEDI-PRODUCTS.

DO NOT USE LIQUID CELL OR AUTOMOTIVE BATTERIES. ALL BATTERIES MUST BE REPLACED TOGETHER AT THE SAME TIME AND CONNECTED AS SUPPLIED BY MEDI-PRODUCTS. Call 203-348-2886 with any questions.

Caution: Batteries cannot be 'turned off' – they are always 'on'. Use care to NEVER allow any conductive tool to touch + and – simultaneously. The use of insulating tape is recommended. Note that some systems include a battery to frame bond.

1. Turn all breakers/switches off, or unplug and remove battery covers.

2. If replacing existing batteries disconnect the gray connector that connects the batteries to the Inverter, if you model does not have a connector simply start by removing the red inverter cable first. After the inverter is disconnected remove from the batteries all battery cables. (Make sure you take special note of how the cables were routed) and remove all the batteries.

5. Un-package all the batteries and insert them into the battery compartments, making sure they are fully inserted.



### PLEASE TAKE EXTRA CARE BEFORE POWERING SYSTEM WHEN REPLACING OR INSTALLING BATTERIES

6. Please take note of the battery (DC) voltage that your model number requires. Check the required voltage for your model number listed on the next page. Once you have identified the voltage your system requires please refer to the cable configuration chart to find identify how the battery cables should be installed.

7. Install the battery cables carefully. As the final battery connection is made a significant spark will be noticed. This is normal. PLEASE USE EYE PROTECTION.

9. Once you have reinstalled your battery all the battery cables turn on the feed to the systems and ensure that you are the system is charging the batteries you should read 13Volts + while the system is charging.

10. Reinstall all the cabinet covers and test that the system is inverting by momentarily disconnecting the power supply to check the transfer switch.

11. Once you have finished the installation and tested the systems momentarily, charge overnight before using.

MODEL NUMBER	DC VOLTAGE	AC INPUT VOLTAGE
SSH2020T	12	120
SSH2030T	12	120
SSH2040T	12	120
SSH1020M	12	120
SSH1030M	12	120
SSH1060M	12	120
SSH1080M	12	120
SSH10112M	12	120
SSH3120M	12	120
SSH3130M	12	120
SSH3140M	12	120
SSH3160M	12	120
SSH3180M	12	120
SSN2812MS	12	120
SSH4030MS	24	120 or 240
SSH4060MS	24	120 or 240
SSH4440MS	48	120 or 240
SSH4480MS	48	120 or 240







12 VDC PARALLEL



#### **TYPICAL BATTERY CABLING**

24 VDC SERIES-PARALLEL

**48 VDC SERIES** 

## (Optional) Remote Monitoring System - Setup & Users Instructions

For those who purchased the optional remote alert system, the following guide will help you install, set up and use the remote dialer.

This dialer is intended to send a telephone alert when the there is a power outage. This system will dial up to 4 numbers when the input power is lost.

#### Installation Requirements:

1) The refrigerator battery backup system operates with a standard analog telephone line. You will need to have this telephone line installed and working prior to installing the power system.

2) The System works also requires 6 size C standard alkaline batteries.

3) This alert is pre-mounted to the face of the battery backup system so no preparation for any mounting this optional remote is necessary.

#### **Programing and Setup:**

Plug the system into a phone line using the cord provided (there is an input and extension jack on the top left of the monitor panel) and install the batteries by removing the battery cover in the front of the unit. You will need to follow the following steps to configure your device:

#### 1) SET THE CLOCK

- a) Press SET
- b) Press CLOCK (8)
- c) Using the number keys, enter the correct time. (It will recite the digits as they are pressed)
- d) If the time is AM, press the AM key. (It will say "am")

If the time is PM, press the PM Key. (It will say "pm.")

Example: You want to set the clock to 9:45 am. Press the following keys in the order shown: SET + CLOCK + 9 + 4 + 5 + AM

#### 2) SET THE DIAL OUT PHONE NUMBERS:

You can set up to 4 phone numbers to which the alarm will call when a power outage occurs. Decide which ones you want to alert and write them down so they are handy.

a) Press SET

b) Press PHONE NUMBER

c) Select which telephone number to program. Press any unassigned number key (from 1 to 4) to represent the new telephone number entry. (it will respond: "Enter number.")

- d) Enter the complete telephone number using the number keys. (it will recite the digits as they are pressed)
- e) Press ENTER. (The unit will respond: "Okay.")
- f) Repeat above procedure to program up to four separate telephone numbers

#### 4) SET THE INTERCALL TIME

You use this feature if you only if you are programming in one contact number. It will prevent the system from calling the phone number every minute which is the default setting.

(If you programed more than one dial out phone number in step 2, skip this step and move on to step 5)

a) Press SET. SET 2.

b) Press INTERCALL TIME. 3 INTERCALL TIME The Model 400 will respond: "Enter minutes."

c) Using the number keys, enter the minutes (we recommend 30) The Model 400 recites the digits as you press them. 4

d) Press ENTER. (It will respond: "Enter seconds.")

f) Enter 00 (It will recite the digits as you press them.)

g) Press ENTER (It will respond: "Okay)

5) SET THE MAX CALLS:

This will determine the number of times the system will call you once after the power goes out and after the power have been restored. We recommend limiting it to 3 calls per user. So if you only have one callout number, you will what to set your max calls to 3.

Example: 3 Users X 3 Calls per user = Max Call should be set to 9

- a) Press MAX CALLS. (it will respond: "Enter number.")
- b) Using the number keys, enter the max number of calls you wish for (3 times the number of users).
- c) Press ENTER. (it will respond: "Okay)

Congratulations you have set up your battery backup remote alert system.

### **Using the (optional) Remote Alert System:**

Once you have the system set up there is not much to do other than test the system.

Weekly Testing: When you preform your weekly test of the power system by disconnecting the input power, the system will call you with an alert.

Once you reconnect the input power it should alert you again stating that the system is back to normal.

#### Important Note: Acknowledging Alerts

When you receive a call from the system, the system may keep calling you until acknowledge that you have received the alert

At any time during the call you can enter the acknowledgement code by entering 555.

Once you enter 555 the system will say "Alarm Acknowledged" and stop calling you.

## **START-UP NOTES**

Before turning on main power, the batteries must be installed. Please refer to the battery installation section of this manual.

WARNING: SPECIAL CARE MUST BE EXERCISED NOT TO CAUSE A SHORT CIRCUIT WHILE USING TOOLS AROUND BATTERIES AND BATTERY CABLES.

As the final battery connection is made a significant spark will be noticed. This is normal.

After the batteries are installed and before the AC power is applied, briefly activate the system by pressing the INVERTER touch-pad on the front panel.

Verify that the system is producing power. A motorized tool is a good test device.

If all is well, AC power can now be connected. The normal response will be for the battery charger to become active. After a moment, this will be indicated by a hum and indicator lights illuminating. If this does not happen press the CHARGER touch pad if present on your system.

Automatic power transfer can now be tested by applying a load and briefly disconnecting the AC power, observing that the load is sustained.

It should not necessarily be expected that the output voltage will measure 120 VAC on most multimeters unless a puresinewave system is being installed; 90-100 VAC is more typical. The reason for this is that the inverted power is not a "pure" sine waveform which most meters are designed to measure. Please be assured that the Root-Mean-Squared voltage is equivalent to that of the utility and the RMS voltage is the basis for calculating power. Occasionally there may be a compatibility problem with a particular item, in which case the owner should contact MEDI+Products. Any device that does not immediately operate should not be repeatedly tried - to minimize the rare possibility of damage. At the same time it should also be understood that there is a load-hunting mode in the inverter system which may or may not be activated to minimize unnecessary discharge should the system be automatically activated by a power failure when there is no load. This load-hunting action may cause a slight delay in turning on the first load item. If the owner desires to turn this feature on or off, please contact MEDI+Products or the Inverter booklet.

Before departing, the installer should restore AC power and toggle the POWER button till the indicator light in the power button is off. Unless a Full-time Load is being supported. (When the INV light is off or flashing the system will not activate upon power failure.)

The owner should devise his own testing regimen based on his particular needs and familiarize himself with the equipment and the testing instructions included elsewhere in this manual.

## **OPERATIONAL MODES**

There are four operational modes determined by the front panel rocker switch and the availability of supply power.

If there is supply power available there are two possible modes depending on the position of the rocker switch:

If the switch is set for Charge Only, and the power fails, the system will be OFF.

If the switch is set for Auto-Invert, and the power fails, the system will start converting battery power to AC power for as long as possible as determined by the battery capacity. As the battery capacity is depleted, and the voltage drops below 11.5 volts, an alarm will sound. It is not possible to turn this alarm off except by recharging, or switching the rocker to Charge Only.

If there is no supply power available, the system will either Invert or be OFF, as determined by the rocker switch.

If supply power is available, the left-side group of three lights will indicate the battery charge rate: red indicating maximum, and Green indicating minimum. The right-side green light will be on.

If no power is available, the right side amber light will be on, and the left-side lights will indicate the rate of inversion, red indicating overload.

## WARRANTY ACTIVATION FORM

MEDI-PRODUCTS warrants that your **SILENT SENTRY™** Emergency Power System is assembled using high quality components and workmanship and is free of defects in material and workmanship.

This warranty shall remain in effect for one (1) year from the date of original consumer purchase of the inverter. Warranty on the batteries is pro-rated over 30 months.

#### THIS WARRANTY DOES NOT COVER:

1) Replacement parts or labor furnished by anyone other than MEDI-PRODUCTS approved service agent. (All approved agents should be licensed electricians or bio-medical technicians or as specifically approved.)

2) Defects or damage caused by labor furnished by someone other than MEDI-PRODUCTS or approved service agent.

3) Any malfunction or failure of this product while it is in the possession of the owner during the warranty period if the malfunction or failure is not caused by a defect in material and workmanship of MEDI-PRODUCTS or if the malfunction or failure is caused by unreasonable use, including the failure to verify the equipment's utility and usefulness prior to emergency conditions.

4) Normal battery depletion.

#### ALSO:

1) This warranty is non-transferable to other owners of the product during the warranty period without the express written consent of MEDI-PRODUCTS.

2) MEDI-PRODUCTS reserves the rights to repair, replace, or allow credit for any material returned under this warranty. Any damage caused by the customer will be charged or deducted from this allowance.

3) All warranty work will be performed at MEDI-PRODUCTS factory, or using a valid Warranty Authorization Number (WAN) prior to repair. Products shall be delivered to MEDI-PRODUCTS factory freight prepaid and fully insured.

The inverter manufacturer's owner's manual is provided. The owner should become conversant with it and also with this owner's manual. Before operating your SILENT SENTRY<sup>TM</sup> be sure to read these safety instructions.

#### TO INITIATE YOUR WARRANTY PLEASE COMPLETE THIS FORM AND RETURN WITHIN 30 DAYS

It is recommended that you keep a copy of this activation form for your own records.

Facility Name:
Phone Number:
Email Address:

Complete and fax to 203-487-7423

### Products by: Medicanix Inc.

Stamford CT 06902

(800) 937-3724

Fax: (203) 487-7423

Email: <a href="mailto:service@medicanix.net">service@medicanix.net</a>

