

## Setting Up the Power Alarm for Vaccine Fridge Backup System

Vaccine fridge battery backup systems that are equipped with power outage alarms, need to be programmed after installation. Setting up the Sensaphone alarm involves 3 parts: 1 setting up the hardware, 2 Connecting the phone line, and 3 programming the system.

### Setting up the Hardware:

Being the alarm is already fastened to the battery backup cabinet, there is not much set up other than installing the batteries. The batteries are installed by sliding down the lower cover below the keypad of the unit, which slides down off the bottom.

### Connecting the Phone line:

The system needs to be connected to a standard analog telephone line. We recommend you have a dedicated telephone line for the alarm - this way the alarm will not interfere with whatever else is connected to the alarm system. This connection is made by connecting a standard 4 pin telephone cable into the 4 pin RJ-11 socket at the top of the alarm.

### Programming the system:

There are several steps to programming the system. The following is an outline of each step.

#### Set the Clock:

By setting the clock the system will be able to tell you the current time what you receive an alert. You can enter the current time into alarm as follows:

Press: SET >> then press CLOCK (8) >> then enter the current time >> them

Press either AM or PM

#### Set the System Number:

This will allow the alarm to tell you what number is calling when it alerts you or when you call the alarm remotely. The set up for this is as follows:

SET >> ID NUMBER (0) >>Enter Dial-er Telephone Phone Number >> ENTER

#### Set the Dial Out Numbers:

These are the telephone numbers system will call once the power to the vaccine refrigerator goes out. You can program up to 4 phone numbers for it to dial.

When the power goes out the alarm will dial the first number, then the next number in the queue and so on until it receives an alarm acknowledgment. To do this write down all the numbers you wish for it to dial in the order of which you will want them dialed, then program the numbers into the system as follows:

Press: SET >> PHONE NUMBER >> 1 >> Enter the first Phone Number>> ENTER

Press: SET >> PHONE NUMBER >> 2 >> Enter the 2nd Phone Number>> ENTER

Press: SET >> PHONE NUMBER >> 3 >> Enter the 3rd Phone Number>> ENTER

Press: SET >> PHONE NUMBER >> 4 >> Enter the 4th Phone Number>> ENTER

### Set the Max Calls:

This will restrict the number of times the system tries to call you once an alarm occurs. We recommend setting this to 3 times the number of users. For Example: If you have 4 dials out numbers you will want to set it for 12 - so each user will receive 3 calls. Program this as follows:

Press: SET >> MAX CALLS (4 )>> 12 >> ENTER

### Set the Inter-Call Time:

Setting the inter-call time will program how long the system will wait between calling subsequent telephone numbers. We recommend this to be set to 15 minutes. Program this as follows:

Press: SET >> INTERCALL TIME (3) >> 15 (minutes) >> ENTER >> 00 (seconds) >> ENTER

### Set the Listen In Time:

Setting this to 0 will prohibit anyone from calling the system and listening into the office. Medical office privacy laws would require you to set this to 0. This should be done as follows:

Press: SET >> LISTEN TIME (9)>> 0 (minutes) >> ENTER >> 00 (seconds) >> ENTER

## Set the Recognition Time:

Setting the Recognition Time will prevent the alarm from sending an alert for short power outages or power flickers. We recommend you set this for 15 mins for utility power (zone 2) and 5 mins for refrigerator power (zone 3). Do this by entering the following:

Press: SET >> RECOGNITION TIME >> 2 (zone 2) >> 15 (15 minutes) >> ENTER

Press: SET >> RECOGNITION TIME >> 3 (zone 3) >> 5 (5 minutes) >> ENTER

## Record the Alert Message:

Recording a message for each Zone and alarm that is used will help you identify what location and problem is alarming. Confirm that Zone 2 is the utility power loss by briefly unplugging the battery backup system's input power. Once you unplug the backup system from its power source it should say "alarm zone 2 it is not OK". So that you do not have to remember what zone is what, record a message for the zone.

Doing this will also help if you have more than one alarm in your group to identify which location is alarming. So for example, if you have a vaccine fridge in New York and another vaccine fridge in New Jersey, you be able to know which alarm is calling you. To do this follow the following procedure:

It is good to have the script written out before recording. Here is an example of what the script should sound like for the "New York" vaccine fridge Utility power loss (zone 2):

"New York Utility Power"

and for the Output power going to the refrigerator:

"New York Refrigerator Power"

## To Program this in as follows:

Message

1) Press: SET >> MESSAGE >> 2 (for zone 2) >> say: "(Your Location) Utility Power" >> ENTER

Message

2) Press: SET >> MESSAGE >> 3 (for Zone 3) >> say: "(Your Location) Refrigerator Power" >> ENTER

If you did not purchase the vaccine refrigerator temperature sensor for the power outage alarm system, your programming and set up is finish! For those who wish to also hook a temperature sensor to the alarm there is still a few more steps to go:

### Hook up the Temperature Sensor:

Place the temperature probe in a central location. Inside the fridge and run the wire thru the refrigerator door and over to the alarm. Flip down the lid at the top of the alarm. You will need a small flat blade screwdriver to hook you the wire to the terminals C and 4 (the first 2 screws if you go from left to right).

Configure Zone 4 to temperature: This will configure your Zone to read the temperature.

Press: SET >> CONFIG

### Calibrate the Sensor:

Do not attempt to calibrate the sensor until the sensor has been stored inside the refrigerator for at least 24 hours or long enough for it to be stabilized to the temperature inside the refrigerator. You then will need to calibrate the temperature in comparison with another external temp probe (usually the vaccine refrigerator data logger can be used for a reference temperature reading). Next you will need to:

Press: WHAT IS > TEST F/C

Note down the temp it says it is for Zone 4 and compare this with what the Datalogger is reading.

Whatever the offset is will needs to be programmed in so it matches what the data logger reads.

For example:

if it is sensing temperature and is reading 1 degree too high, then the calibration will need set at -1 to obtain an accurate reading. Program this as follows:

Press: SET >> CALIBRATE (6) >> 4 (for Zone 4) >> Enter the offset (for negative numbers first press the \* before entering the number) >> ENTER

Confirm it calibrated by pressing WHAT IS > TEST F/C

### Set the Temperature Limits:

This is the temperature limits on which the alarm will call you if the vaccine fridge or freezer goes out of range. This should be programmed as follows:

For Refrigerators - Press: SET >> TEMP LIMITS (5) >> 4 (zone 4) >> (enter low temp) 36 >> (high temp) 45 >> ENTER

For Freezers - Press: SET >> TEMP LIMITS (5) >> 4 (zone 4) >> (enter low temp) \*58 (-58) >> (enter high temp) 5 >> ENTER

### Set the Recognition Time:

Setting the Recognition Time will prevent the alarm from sending an alert for short temperature changes like when the refrigerator compressor cycles. We recommend you set this for 10 mins. Enter the following:

Press: SET >> RECOGNITION TIME >> 2 (zone 2) >> 10 (10 minutes) >> ENTER

Congratulations - you have completed your programming for the Vaccine Storage Power Outage and Temperature Alarm System!