

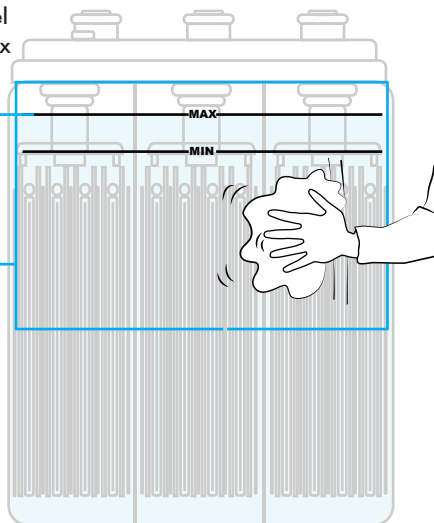


# CELLGUARD SYSTEM-ELS+ INSTALLATION

## 1 PREPARE THE BATTERY

1) Ensure electrolyte level in the battery is at max fill line or top off with deionized water

2) Clean the surface of the battery with isopropyl alcohol



## 3 INSTALLING HUB & FIRST SENSOR

1) Mount the Hub (Fig 1) in a convenient location.  
Note: The Hub could be mounted on or away from the battery.

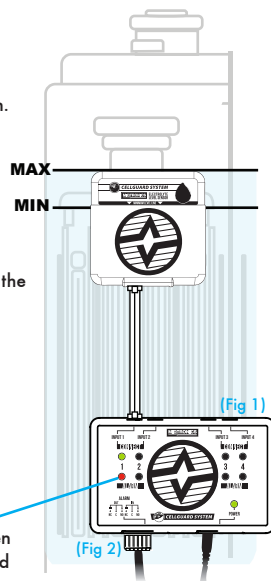
2) Plug the power adapter into the wall and the Hub.

3) Connect the green terminal block (Fig 2) from the Hub to the Alarm System / SCADA.

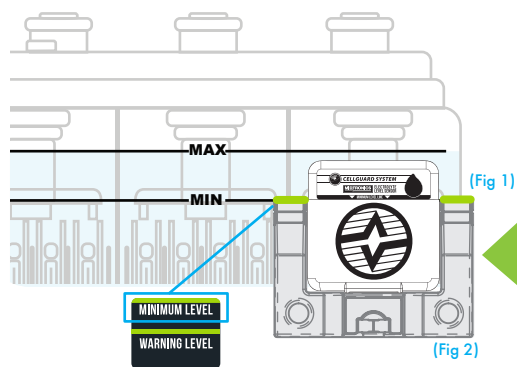
4) Plug the first sensor into the Hub with the supplied cable.

5) For an example diagram of a multi-string installation, consult the User Manual.

ALARM LED will illuminate red when sensor is connected

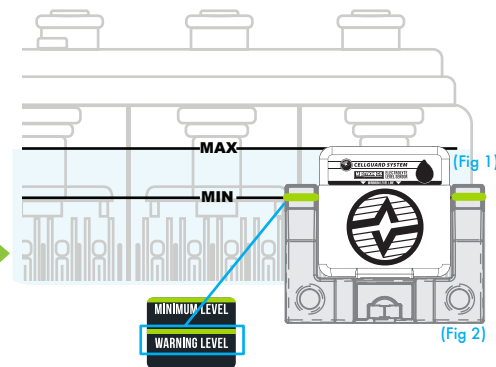


## 2A STANDARD INSTALL - ALARMS AT MINIMUM FILL LINE



- 1) Peel the adhesive liner off of the back of the sensor (Fig 1), place aside within reach, bottom (adhesive side) facing up.
- 2) Using the Alignment bracket (Fig 2), place the Minimum Level line over the Minimum Fill Line on the battery. Utilize the built-in level to be sure the bracket is straight.
- 3) Pick up the sensor with your free hand and lightly place it in the bracket. When confirmed straight, apply pressure to the sensor, hold for five seconds to allow the adhesive to stick cleanly to the battery casing. Repeat per sensor.

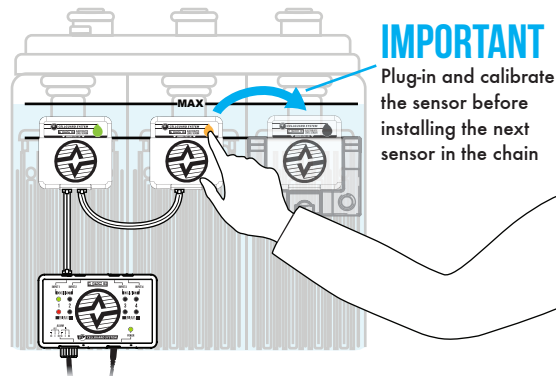
## 2B EARLY WARNING INSTALL - ALARMS ABOVE MINIMUM FILL LINE



- 1) Peel the adhesive liner off of the back of the sensor (Fig 1), place aside within reach, bottom (adhesive side) facing up.
- 2) Using the Alignment bracket (Fig 2), place the Warning Level line over the Minimum Fill Line on the battery. Utilize the built-in level to be sure the bracket is straight.
- 3) Pick up the sensor with your free hand and lightly place it in the bracket. When confirmed straight, apply pressure to the sensor, hold for five seconds to allow the adhesive to stick cleanly to the battery casing. Repeat per sensor.

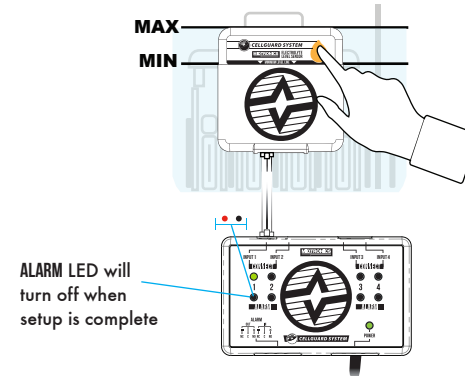
CHOOSE AN INSTALLATION

## 4 CALIBRATION & CONNECTING MORE SENSORS



- 1) After plugging in the first Sensor, press and hold the droplet button. When first pressed, the droplet button will show solid green. Continue to hold the droplet button until it turns orange (about 4 seconds). Then release. The droplet will stay solid orange for 10 seconds. When completed successfully, the droplet button flashes green.
- 2) When complete, install the next sensor utilizing Steps 2 (A or B) and calibrate per Step 4 for each individual sensor until you reach the end of the string.

## 5 CLOSING ALARM LOOP (FINAL SENSOR)

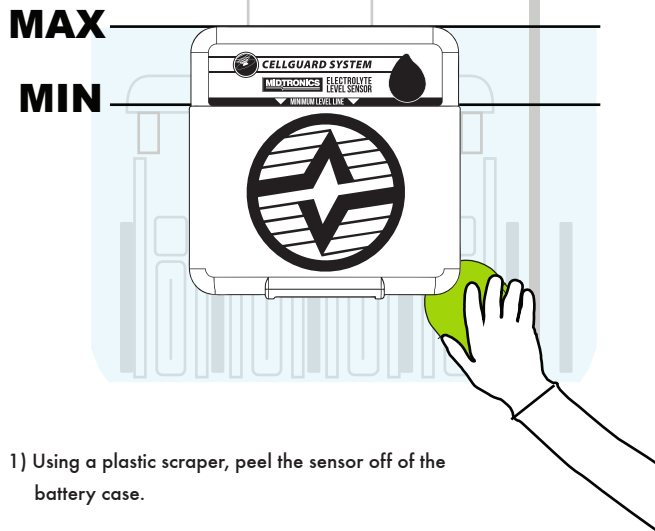


- 1) After calibrating the final sensor in the string, again press and hold the droplet button for 10 seconds.
- 2) When the droplet flashes orange, release the button. The sensor will flash orange for 20 seconds while it closes the alarm loop.
- 4) When completed successfully, it will fast blink green 6 times.
- 5) After 6 fast blinks it will slow flash green and your string is setup and complete.

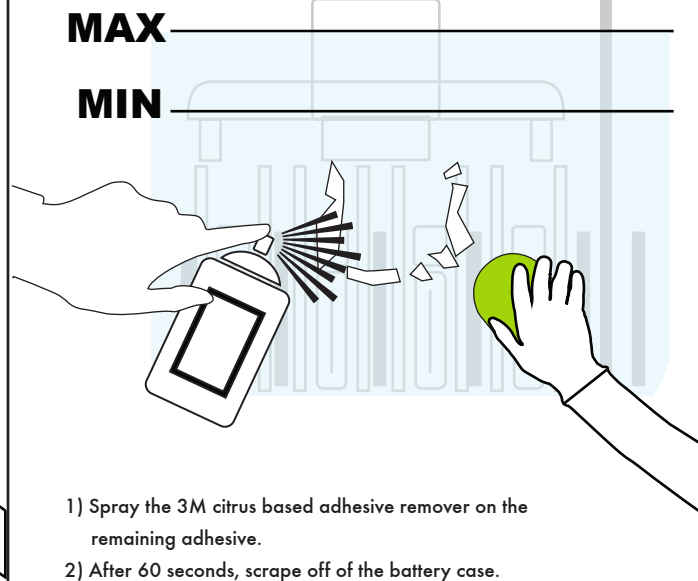


# CELLGUARD SYSTEM-ELS+ REMOVING THE SENSOR

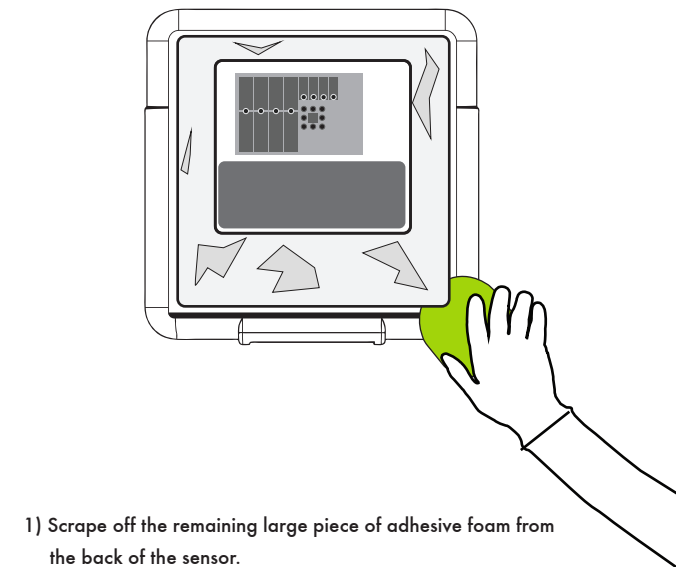
## 1 REMOVING THE SENSOR



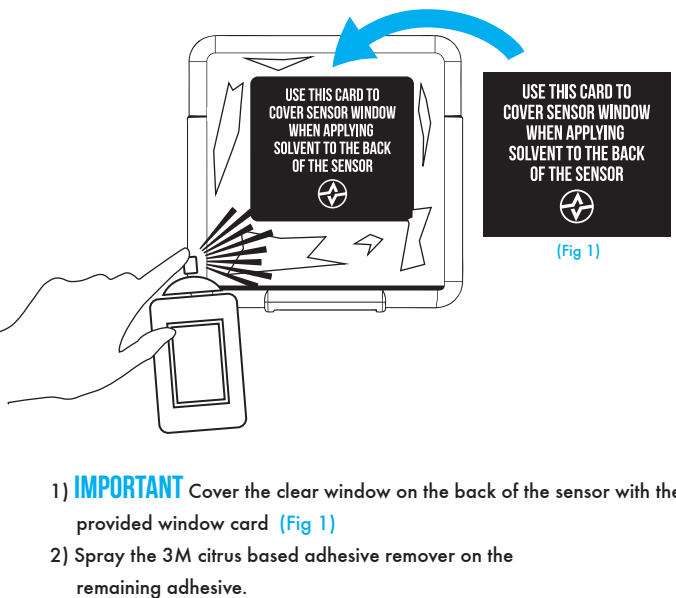
## 2 REMOVING THE ADHESIVE FROM THE BATTERY



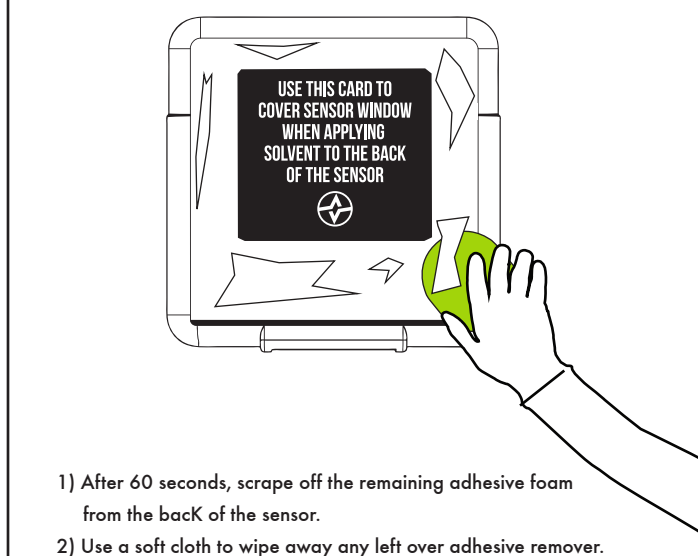
## 3 REMOVING THE ADHESIVE FROM THE SENSOR



## 4 PREPARING TO CLEAN THE ADHESIVE AREA



## 5 CLEANING THE ADHESIVE AREA



## 6 INSTALLING THE NEW FOAM ADHESIVE PAD

