



# Ocean Sensor Systems, Inc.

## Solar Powered RF Wave Logger, OSSI-010-005-CE



**QUICK START INSTRUCTIONS. PLEASE FOLLOW CAREFULLY**



You have received the unit with the battery unplugged. To open the unit and plug in the battery remove the two small screws on each side of the center antenna mount to remove the mount.



Put the enclosed rubber glove on one hand to aid in removing the cap. While holding in an upright position carefully unscrew the cap. The battery is loose and setting in an upright position so be careful when the container is opened that it does not fall out. Carefully remove top.



You will notice that the battery cable is taped to the battery with white tape. Gently remove the tape from the cable.



Plug the cable into the base of the unit. The plug is next to the white close file button.

You will notice there are rubber cushions on top of the battery. Do not remove! They help keep the battery secure when placed in its proper position. You will need the cushion if the battery ever needs replacing.



The battery must sit in the square cutout in the bottom section of the case. This prevents the battery from twisting on the cable. The case top will screw on, hit the rubber boot on top of the battery and keep the battery stable and not rattling. If the battery is not in the shallow cutout the top will not go on properly



After screwing the top of the case back so that it is flush with the bottom (but not too tight), replace the antenna mount with the 2 screws.



The antenna screws on to the top of the antenna mount.



Be sure to connect the grounding wire to the ground stud on the side of the case bottom. The wire should be connected to a fairly large object ( 5 X 5 inches or larger) so that it makes a good ground to the water so the sensor will operate properly. The wire must be kept at least 5 inches or more away from the staff!



Attach the yellow, solar power cable to the bottom of the unit.



Plug the gray solar power extension cable into the short gray cable coming out of the yellow solar power cable.



Attach the Solargrip mounting bracket to the back of the solar panel with the four black nobed screws with nuts.



Select the mount you prefer for your application and secure it. Then attach it to the Solargrip mounting bracket. Now mount the solar panel to the object of your choice.



Mount the silver Wave Logger bracket to the object of your choice. Secure the staff with the stanchions at approximately 1 meter spacing.

Plug the gray solar power extension cable into the solar panel. Connect the RF receiver to your computer using the RS232 cable. Power up the receiver. Using a hyper terminal program you should see the buffered data every 15 to 20 sec. (The hyper terminal should be set at 9600 baud.)

**THE UNIT HAS BEEN PROGRAMED. YOU DO NOT NEED TO RECONFIGURE THE UNIT UNLESS YOU HAVE A VALID REASON.**

The following list is the way the unit is configure now for optimum performance and battery life:

Serial Data Output: Off

Data Format: ASCII

Air Temperature: On

Sample Rate: 10 Hz

RF Mode: Buffered

Start Time: Off

File Interval: 0 (Note: the compact flash card is not needed for typical operation)

Burst Length: 0

Burst Interval: 60

Real Time Clock: For your time zone (already done)

## IF YOU MUST RECONFIGURE!

To Reconfigure The Wave Logger FOLLOW THESE STEPS:



To reconfigure or calibrate the unit unscrew the cap on the end of the yellow solar power cable and attach the yellow programming cable. Then use our interface software, downloaded from our web site, to reconfigure the wave logger.

The staff has been calibrated at the factory. You should not need to recalibrate the unit. If you replaced the staff you may want to recalibrate at this time. Please see the Wave Logger Calibration Procedure on our web site.