MC-SUB SUBMERSIBLE HOUSING

INSTALLATION INSTRUCTIONS



Figure 1: NexSens MC-SUB Submersible Housing.

Overview

The NexSens MC-SUB offers a solution for integrating 3rd party electronics on a CB-75 data buoy platform. It is designed for use with industry-standard MCBH & MCIL connectors (sold separately).

What's Included

- · (1) Sensor plate
- · (1) Vent Port
- · (1) Battery well
- · (4) Port plugs

Accessing the MC-SUB

If pre-installed on a buoy platform, use a Phillips-head screw driver to remove the solar tower. Then, remove the 6 or 12 screws holding the lid of the MC-SUB to the battery well and buoy (Figures 1-3).

a. For ease of electronics installation, the battery well can also be removed from the buoy.

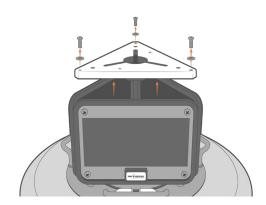


Figure 2: Remove the top white plate.

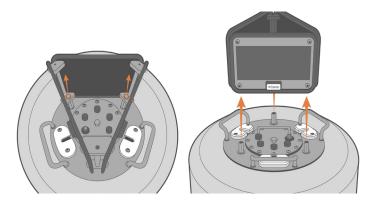


Figure 3: Remove the solar tower.

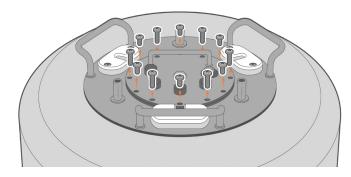


Figure 4: Remove the MC-SUB from the buoy and battery well



MCBH/Solar Bulkhead Connector Installation (Sold separately)

1

Using a 3/8" hex driver or Allen wrench, remove a blank port plug for each bulkhead connector.

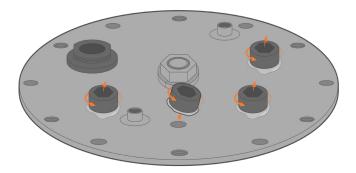


Figure 5: Remove the necessary blank port plugs.



Remove the nut and flat washer from the bulkhead connector and route the wires through an open hole.

a. Reinstall the nut and flat washer and tighten to the plate ensuring the O-ring underneath the connector stays in place.

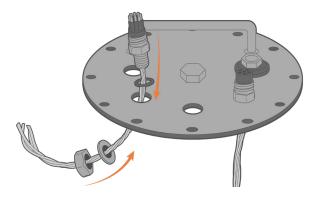


Figure 6: Install a bulkhead connector.



Apply an adhesive to the nut underneath the plate.

a. Ensure the adhesive for all connectors is fully cured before re-installing the plate.



Repeat this process for all cables that will be inserted through the pass-through plate and into the buoy well.

a. Tie together any loose wires to ensure they are not pinched underneath the lid during re-installation.

NexSens Solar Connector Wiring Information (Optional)

The NexSens Solar Connector is an optional accessory that can be used to power an internal battery via connection with the CB-75 solar tower.



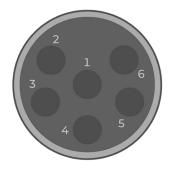


Figure 7: NexSens solar connector pin numbers.

Table 1: NexSens solar connector wiring information.

Receptacle Pin	Wire Color
1	Orange ^b
2	Yellow
3	Black ^a
	(Both black wires)
4	Red
	(Only on Molex connector)

The free red (+++) and black (---) wires are for power and ground connection to an external device.

Note: Information below refers to connection with a NexSens solar tower.

^aThe solar tower plug is connected to both black wires (ground) and the single yellow wire (power).

^bThe orange Molex wire and the red flying lead wire are shorted together.

