

# GILL MAXIMET SENSOR BUOY MOUNT

## INSTALLATION INSTRUCTIONS FOR CB-450 AND SMALLER BUOY MODELS



Figure 1: NexSens CB-MXM-M Weather Sensor Buoy Mount.

### Overview

The NexSens CB-MXM-M Gill MaxiMet Weather Station Buoy Mount provides a means of securely installing a Gill MaxiMet weather station to a CB-Series data buoy. The mounts are lightweight to reduce the impact of top-side weight on buoy stability.

### What's Included

#### CB-MXM-M Parts

- (1) Bottom mounting adapter for solar tower
- (1) 1-ft. Antenna extension mast
- (1) 1/2" Oversized flat washer
- (1) 214 Silicone O-ring
- (1) 1/2" Split lock washer
- (1) 1/2-13 x 1-1/2" Hex cap bolt
- (3) #10 Split lock washers
- (3) #10 Flat washers
- (3) 10-32 x 1/2" Pan head bolts

### CB-MXM-M Installation on Buoy Solar Tower

- 1 Use a 9/16" socket to remove the white top plate from the buoy's solar tower.

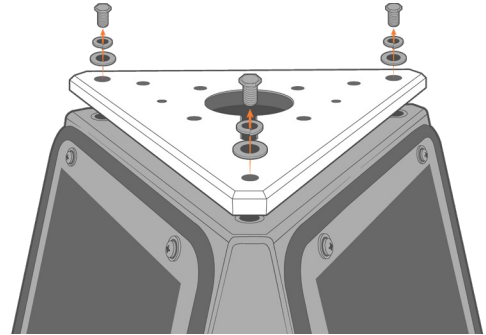


Figure 2: Solar tower top plate removal.

- 2 Use a 3/4" socket to remove the 1-1/2" bolt, lock washer, and oversized washer from the base of the mast mounting adapter.
  - a. Insert the 1-1/2" bolt, lockwasher, and oversized washer through a vacant mounting hole on the plate.
  - b. Thread the adapter onto the bolt on the opposite side of the plate and tighten using the 3/4" socket.

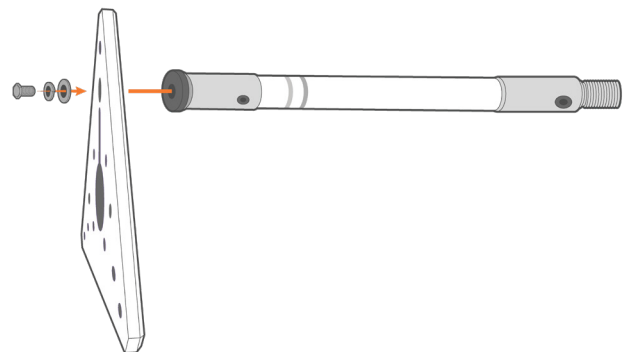


Figure 3: Mast attachment to solar tower plate.

3 Route the MaxiMet cable through the mount opening, align the connector pins, and rotate clockwise until the connector snaps into place.

- a. **Note:** Only the top most portion of the connector should spin. Do not rotate the connector from the middle or bottom.



Figure 4: Connect the MaxiMet sensor cable.

4 Align the outside holes at the bottom of the sensor with the threaded inserts on the mount.

- a. Use the (3) included pan head bolts, a flat washer, a lock washer and a Philips screwdriver to connect the sensor.

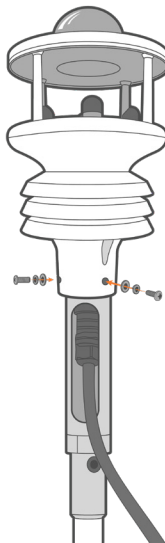


Figure 5: Secure the weather station to the mount.

5 Route the plug through the center hole on the plate and move the cable within the open groove extending from the center hole.

- a. It is recommended to zip tie the cable to the mount and provide cable armor around the portion of the cable in contact with the open groove.

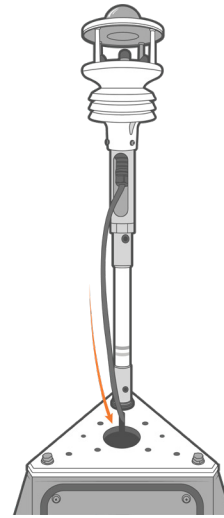


Figure 6: Route the MaxiMet cable to the X2-CB logger.

# GILL MAXIMET SENSOR BUOY MOUNT

## INSTALLATION INSTRUCTIONS FOR CB-650 AND LARGER BUOY MODELS



Figure 1: NexSens CB-MXM-M Weather Sensor Buoy Mount.

### Overview

The NexSens CB-MXM-M Gill MaxiMet Weather Station Buoy Mount provides a means of securely installing a Gill MaxiMet weather station to a CB-Series data buoy. The mounts are lightweight to reduce the impact of top-side weight on buoy stability.

### What's Included

#### CB-MXM-M Parts

- (1) Bottom mounting adapter for solar tower
- (1) 1-ft. Antenna extension mast
- (1) 1/2" Oversized flat washer
- (1) 214 Silicone O-ring
- (1) 1/2" Split lock washer
- (1) 1/2-13 x 1-1/2" Hex cap bolt
- (3) #10 Split lock washers
- (3) #10 Flat washers
- (3) 10-32 x 1/2" Pan head bolts

### CB-MXM-M Installation on Buoy Solar Tower

- 1 Thread the extension mast onto the pre-mounted base on the solar tower.

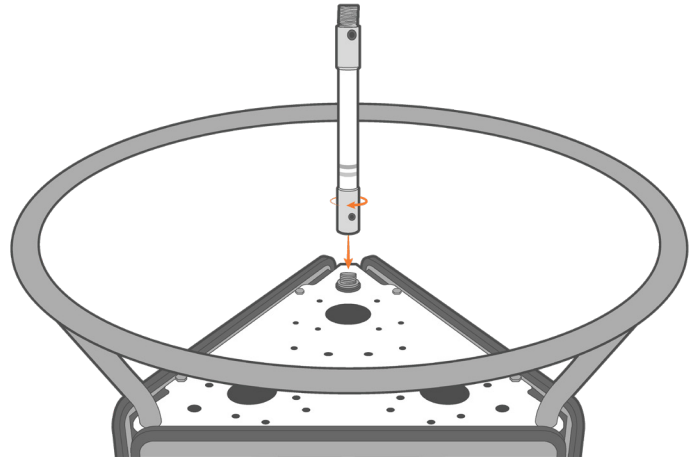


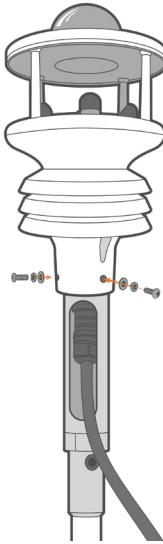
Figure 2: Attach the extension mast onto the solar tower.

- 2 Route the MaxiMet cable through the mount opening, align the connector pins, and rotate clockwise until the connector snaps into place.
  - a. **Note:** Only the top most portion of the connector should spin. Do not rotate the connector from the middle or bottom.



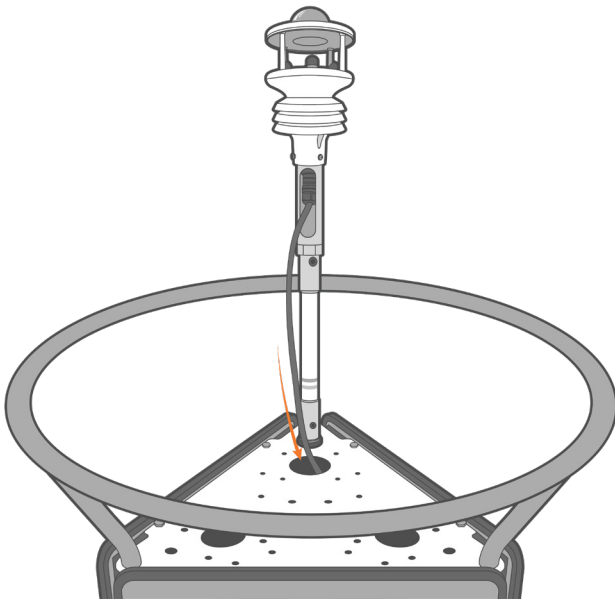
Figure 3: Connect the MaxiMet sensor cable.

- 3 Align the outside holes at the bottom of the sensor with the threaded inserts on the mount.
  - a. Use the (3) included pan head bolts, a flat washer, a lock washer and a Philips screwdriver to connect the sensor.



**Figure 4:** Secure the weather station to the mount.

- 4 Route the plug through the nearest hole on the solar tower.
  - a. It is recommended to zip tie the cable to the mount and provide cable armor around the portion of the cable in contact with the open hole.



**Figure 5:** Route the MaxiMet cable to the X2-CB logger.