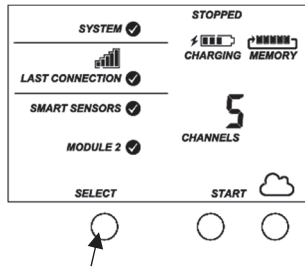## *Adding a Sensor Node to the HOBOnet® Wireless Sensor Network*
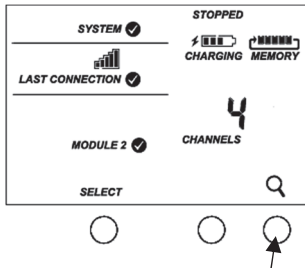
Important: Keep the sensor node near the station while completing these steps. If you are setting up a new station, follow the instructions in the station quick start guide before setting up this sensor node (go to www.onsetcomp.com/resources/documentation/24380-man-rx2105-rx2106-qsg for RX2105 and RX2106 stations or www.onsetcomp.com/resources/documentation/18254-man-qsg-rx3000 for RX3000 stations).
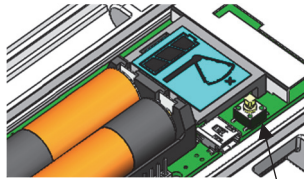
1

Press the Select button on the station to switch to the module with the manager.

2

Press the Search button. The magnifying glass icon will blink while the station is in search mode waiting for sensor nodes to join the network.

3

Open the door and install the batteries. Press this button on the sensor node for 3 seconds.

4 Watch the sensor node LCD during the process of joining the network:

a.

This signal strength icon blinks while searching for a network.

b.

Once a network is found, the icon will stop flashing and the bars will cycle from left to right.
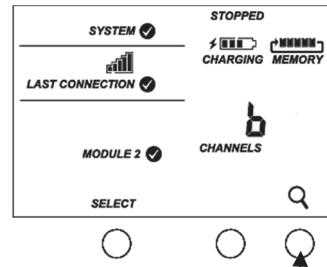
c.

This network connection "x" icon blinks while the sensor node completes the registration process, which may take up to five minutes.

d.

Once the sensor node has finished joining the network, the "x" icon is removed and the channel count on the station LCD increases by two (one for temperature and one for the sensor node battery).

5

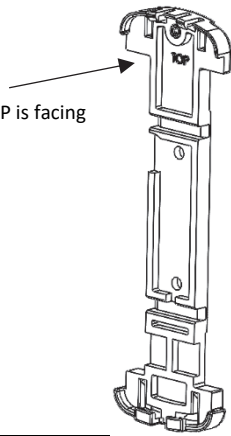Press the Search button on the station again to stop the search for sensor nodes.

6 **HOBOlink®** Go to www.hobolink.com to monitor sensor node status and health. See the HOBOlink Help for details.

Installing the Bracket and Sensor Node
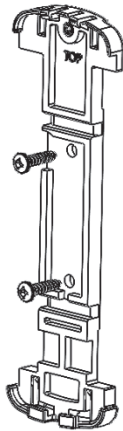
1

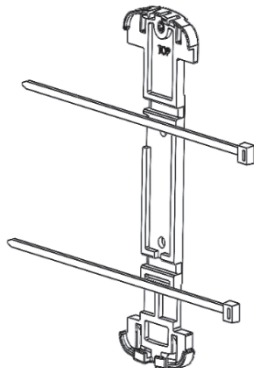Orient the bracket so the text TOP is facing upwards.

2

To install the bracket onto a wall, use the two long screws included in the package. Screw the bracket to a wall using the two holes on the mid-section of the bracket.
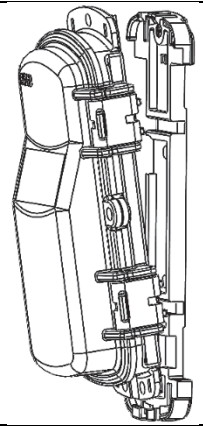
3

To install the bracket onto a pole, slip a cable tie through each of the channels on the bracket and fasten the tie around the pole.
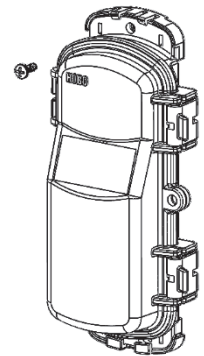
4

Insert the bottom of the sensor node into the retaining clips on the bottom of the bracket then press the top of the sensor node into the clips at the top of the bracket.

5

Use the short screw included in the package to fasten the sensor node to the bracket.

6

Close the sensor node and use a padlock to keep it secure. **Note:** Ensure that the node seal is clean from foreign debris.

Mounting and Positioning the Sensor Node

- Close the sensor node and use a padlock to keep it secure. Mount the sensor node vertically using cable ties or screws.

- Make sure the sensor node is mounted a minimum of 1.8 m (6 feet) from the ground to help maximize distance and signal strength.

- Consider using plastic poles such as PVC to mount the sensor node as certain types of metal could decrease the signal strength.

- Place the sensor node so there is full line of sight with the next sensor node. Use a repeater if there is an obstruction between sensor nodes.

- There should not be more than five sensor nodes in any direction from a repeater or the manager. Data from sensor nodes travels or "hops" across the network and may not reach the station if the sensor node is more than five hops away.

- Mount the sensor so that at least 10 cm (4 in.) of the sensor cable is placed in the medium that is being measured. The temperature sensor is approximately 0.32 cm (0.126 in.) from the end of the stainless steel tip.

For specifications, complete mounting guidelines, and other details about this sensor node, refer to the full product manual. Scan the code at right or go to www.onsetcomp.com/resources/documentation/25547-rxw-tmb-x-manual

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