

RX Runtime Smart Sensor (S-RTA-M006) Quick Start

For use with RX Stations only (not compatible with H21, H22-001, or U30 Stations)



IMPORTANT:

Before connecting this smart sensor to an RX station, follow these steps to make sure the latest station firmware is installed.

1. In HOBOLink, go to Devices, then RX Devices, and click the RX station name.
2. On the RX station page, click Overview and scroll down to Device Information.
3. On the General tab under the Firmware Version, click the firmware  upgrade link. If there is no link, then your RX station has the latest firmware and you can go to the next section.
4. Select Upgrade on Next Connection and click Save.
5. Press the Connect button on the station to connect to HOBOLink and start the firmware upgrade.
6. Wait for the firmware upgrade to complete. The upgrade icon should be gone in HOBOLink once the upgrade is successful. If the RX station firmware is not successfully installed, it could be because there is an interruption in cellular service or poor signal strength. Contact Onset Technical Support for help.

Connecting to an RX Station

1. Stop the RX station if it is logging.
2. Plug the smart sensor jack into an open smart sensor port on the station.
3. Start logging. See the RX station manual at www.onsetcomp.com/support/manuals for details on operating stations with smart sensors.

Input Connections

The S-RTA smart sensor has two input connections. The white wire (+) is powered at 3.3 V through a 100 KΩ resistor. This power is supplied from the RX station's battery. The black wire (-) is connected through the smart sensor to the RX station's ground connection. Connect the input cable from the smart sensor directly to screw terminals on the third-party sensor or to third-party sensor cables with the included wire nuts.

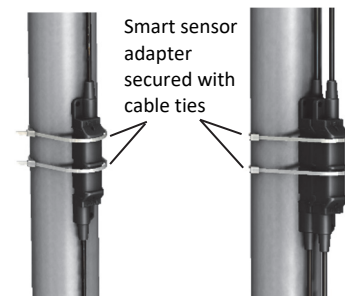
Connection Using Wire Nuts

Important: If using wire nuts, make sure the connection is protected from the elements.

1. Strip 1 cm (3/8 in.) of insulation from the end of wires, taking care not to nick the metal conductors.
2. Twist the stripped wires together clockwise and then screw on the wire nut clockwise.
3. Check the connection by gently pulling on the wires to verify a solid mechanical connection. Always strain-relief the connection to make sure that the connection is not broken by being jerked or repeatedly worked back and forth.

Deployment Guidelines

- Secure the smart sensor adapter to the mast with the cable ties as shown. Multiple smart sensor adapters can be stacked as shown in the far right example. Alternatively, mount the smart sensor adapter to a flat surface using two screws (no larger than a #6) and two washers.
- If the sensor cable is left on the ground, use conduit to protect against animals, lawn mowers, exposure to chemicals, etc.



One Smart Sensor Adapter Mounted

Two Smart Sensor Adapters Stacked and Mounted



For more information about this smart sensor, refer to the full product manual. Scan the code at left or go to www.onsetcomp.com/support/manuals/25939-s-rta-manual.