NEXSENS RTU-C Remote Telemetry Unit User Guide

RTU-C REMOTE TELEMETRY UNIT
QUICK START GUIDE

Contents

RTU-C Remote Telemetry Unit

IMPORTANT – BEFORE FIELD DEPLOYMENT: Completely configure an RTU-C unit for cellular telemetry using the embedded Wi-Fi in a nearby work area. Operate the system for several hours and ensure proper transmission. Use this test run to become familiar with the features and functions.

Figure 1: NexSens RTU-C Remote Telemetry Unit

Overview

The NexSens RTU-C Remote Telemetry Unit acts as the main cellular or iridium telemetry device for X2 data loggers while allowing for fallback to the internal data logger telemetry. RTU-C units are watertight and able to operate in extreme environments. The internal settings allow users to adjust transmission settings via the embedded Wi-Fi. The RTU-C can be powered by any 12VDC source, including a direct connection with a NexSens CB-series buoy battery or SP-series power pack. The RTU-C accepts sensor measurements from NexSens X2 data loggers and can transmit this information to the WQData LIVE cloud data center.

What's Included?
(1) RTU-C Remote Telemetry Unit
(1) RTU-C Mount
(1) Quick Start Guide

SIM Card Installation

1. Remove the front green wire from the base of the RTU-C and gently pull off the front plate.

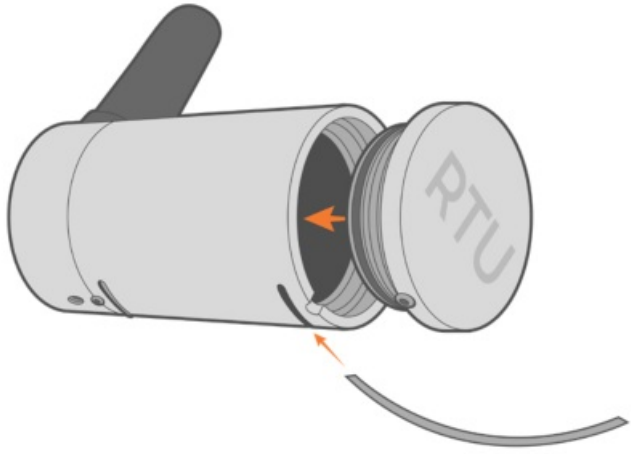

Figure 2: Remove the front plate.

2. Orient the SIM card as shown below and insert the card into the open slot.
   a. Push the SIM card in fully until a click is heard.

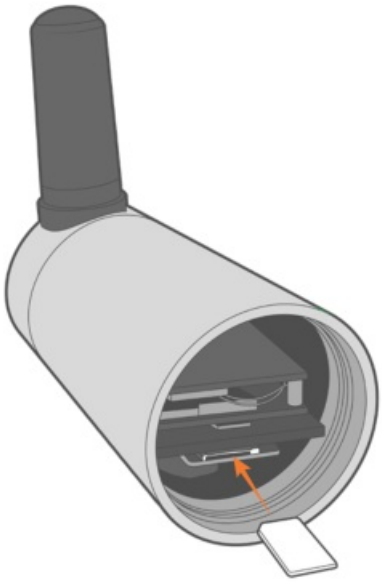

Figure 3: Insert the 2FF mini SIM card.

3. Reinstall the front plate, aligning the notch on the plate with the blue set bolt.
   a. Insert the green wire back into position

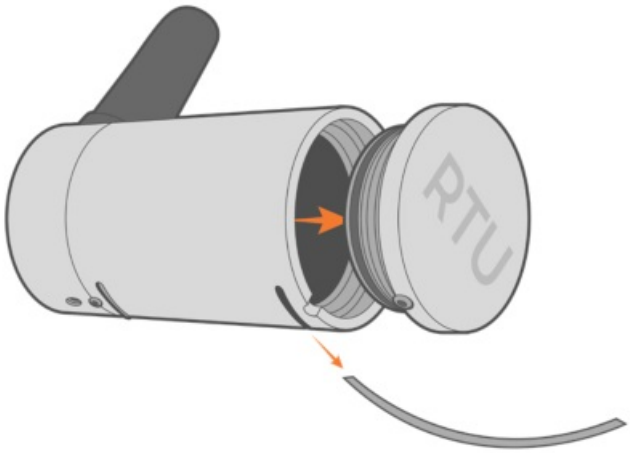

Figure 4: Reattach the front plate.

Establish RTU-C Communication
Follow the link below to access the NexSens RTU-C
Remote Telemetry Unit User Guide. There, users will learn how to establish a connection to the RTU-C to adjust the transmission settings, set up cellular communication, and push data to the WQData LIVE Cloud Datacenter. • nexsens.com/rtucremote

Power Down the RTU-C
The RTU-C contains a capacitor capable of holding power for 30 minutes after the 12VDC power source is disconnected. To cycle power completely, follow the process below.

1. Disconnect the 6-pin connector from the RTU-C.
   a. Remove the cap covering the green LED.

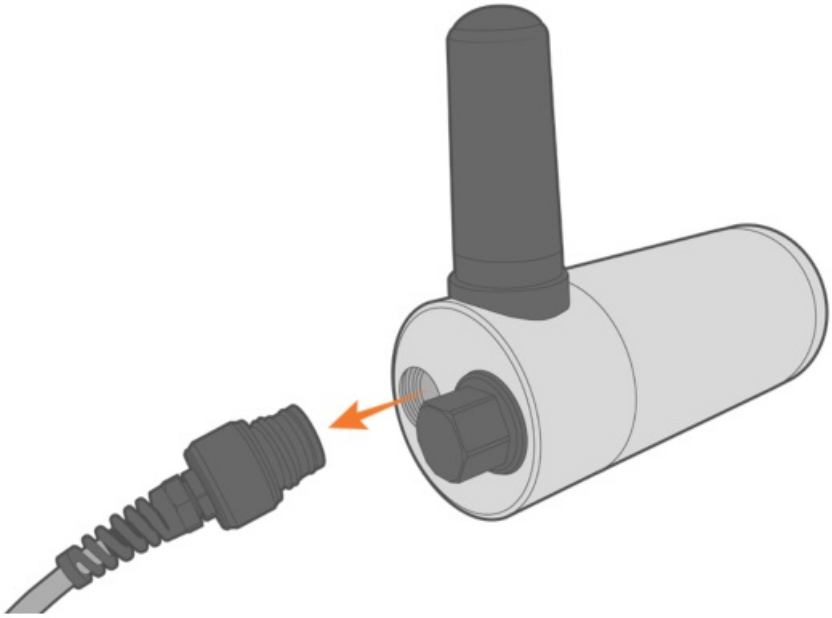

Figure 5: Remove the 12VDC power source.

2. Hold the button for ~1 minute to completely drain power from the unit.
   a. The green LED will not be visible when power is fully drained.

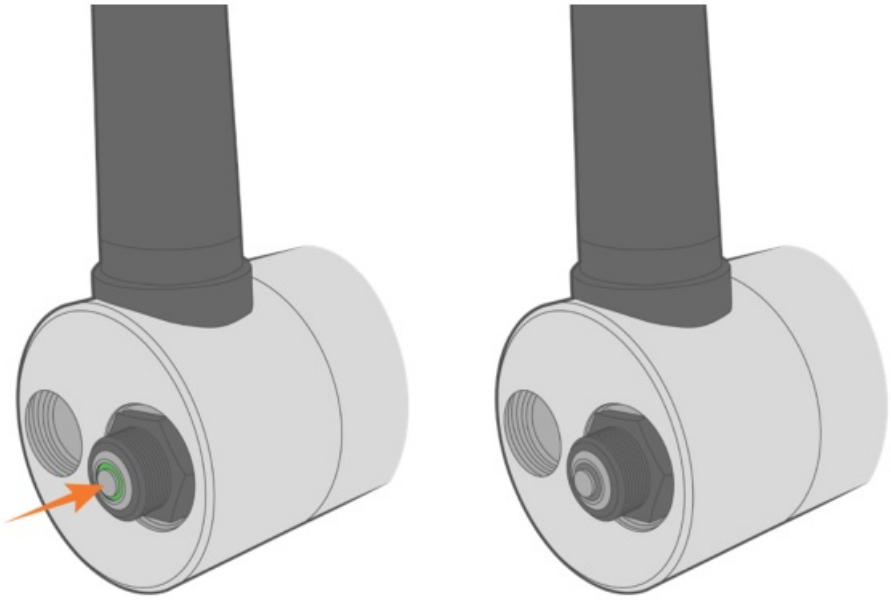

Figure 6: Remove power from the system.

RTU-C Mounting

1. Use the included Philips head screw to connect the camera mounted to the base of the camera.

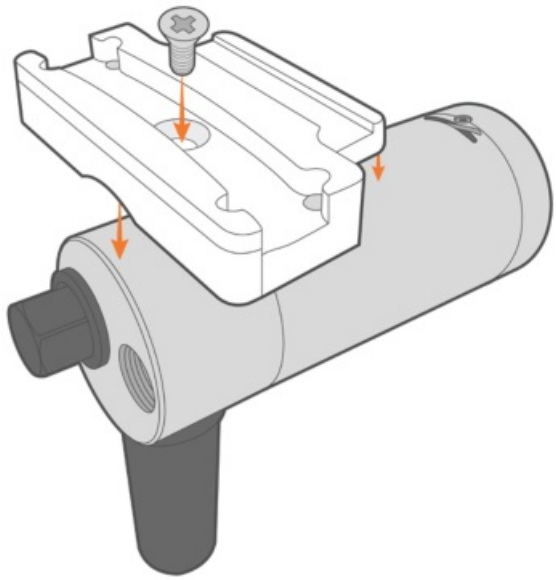

Figure 7: Attach the mount to the camera base.

2. Use the included U-bolts, flat washers, lock washers, and hex nuts to attach the camera and mount it to the solar tower.
   a. Ensure to align the rounded interior of the mount with the solar tower.
   b. Tighten each side of the mount and U-bolts evenly using a 7/16” socket wrench.

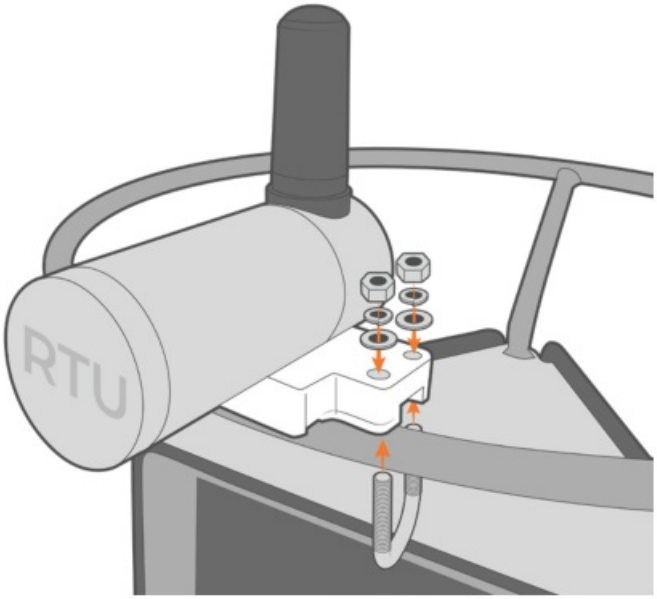

Figure 8: Mount the camera to the solar tower.

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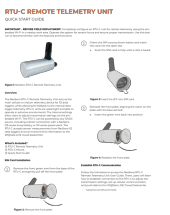
Documents / Resources

	NEXSENS RTU-C Remote Telemetry Unit [pdf] User Guide RTU-C, Remote Telemetry Unit, RTU-C Remote Telemetry Unit, Telemetry Unit

References

- NexSens RTU-C Remote Telemetry Unit - NexSens
- NexSens Technology Inc. - Better Data. It's what we do