



SENQUIP ORB-C1-H Telemetry Sensor Device User Guide

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SENQUIP ORB-C1-H Telemetry Sensor Device



Product Information

The product is called ORB and it comes with a user guide. The current release of the user guide is Release 3. The user guide provides information on various aspects of the product, including regulatory information, getting started, mounting, user access, and more.

Regulatory Information

The regulatory information for the product can be found in the Device Info widget. It includes details such as FCC ID and other relevant regulatory information.

Getting Started

When you receive the ORB, make sure to check if the packaging has been opened by verifying the intact security seal. If the seal is compromised, there is a risk that unauthorized access to the ORB password may have occurred. If the device is to be used in a critical application, it is recommended to change the password as soon as possible.

Mounting

The ORB can be mounted on a flat surface, or it can be attached to a pole or wall using the included mounts. When attaching the ORB to a panel, use the provided M5 bolts and screw them directly into the tapped holes on the rear of the ORB enclosure. It is important not to exceed a depth of 5mm when fastening to avoid damaging the enclosure.

For pole mounting, use the provided M5 bolts to attach the mounting brackets to the ORB. Thread the strap end of a jubilee-clip through the slots in the top of the bracket and repeat for the bottom bracket with a second jubilee-clip. Pass the straps around the pole and into the clamps, then tighten to secure the ORB to the pole.

For wall mounting, attach the brackets to the rear of the ORB using the provided M5 bolts. Note that the brackets should be rotated 180 degrees compared to how they are used for polemounting.

It is important to mount the ORB with the cable entry gland facing the ground to prevent water ingress. Incorrect orientation may also affect the optimal functioning of GPS, Wi-Fi, and 4G LTE antennas. In-field orientation checks can be performed using the built-in accelerometer and associated tilt measurements.

User Access

The user access panel is located behind the hinged front cover. From this panel, you can replace batteries, insert a SIM card, perform wiring functions, conduct diagnostics, and reset or set up the device.

ORB User Guide

Release

SENQUIP Portal Plans Support Docs Account Logout

Georges Test Devices + Add Device Map Subscriptions

<input type="checkbox"/>	Name	Device ID	Events	Last Contact	Internal Temperature	Atmospheric Pressure	Tank Level	Supply Voltage	System Voltage
<input type="checkbox"/>	Senquip test C1	QF7BXH531	1	a few seconds ago					
<input type="checkbox"/>	Norman ORB Test 2	EU8D75173	2	an hour ago					
<input type="checkbox"/>	Norman QUAD Test 2	WC7DXU2GE	2	an hour ago				0	
<input type="checkbox"/>	Norman ORB Test 1	ED7C3TBK2	2	an hour ago				0	3.96
<input type="checkbox"/>	Norman QUAD Test 3	WH7DM291E	2	an hour ago					
<input type="checkbox"/>	Norman QUAD Test 1	Q53DC369C	3	an hour ago				0	
<input type="checkbox"/>	Water Tank	HNTAH6A32		3 hours ago	15.74		19.7		
<input type="checkbox"/>	Norman ORB Test 3	UP8D709G3	2	2 days ago					
<input type="checkbox"/>	Senquip Day Night Controller	BW4BX2PM2	2	4 months ago					
<input type="checkbox"/>	Batt Test	XW8918A92	2	4 months ago	3.6	101.79			

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Map Satellite

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Select device

On the Device Info widget, select Regulatory Information

SENQUIP Dev Portal

Devices / Senquip test C1 : Data

Senquip test C1

Last Contact: a few seconds ago

Latest Data: 18-Sep-23 08:18:34

Device Info

Device ID: QF7BXH531

Model: ORB-C1-G

Firmware: SPW001-7.1.0

Base Interval: 10 seconds

Wifi IP: 192.168.1.101

Wifi Signal: -41 dBm

Regulatory Information

Asset Image

Events

1 Tamper: Lid Open

18-Sep-23 08:18:34

Triggers

Send Serial

Hot tub Adjust ONOFF

Supply Voltage

19.2 Volts

18-Sep-23 08:18:34 [vin]

System Voltage

4.1 Volts

18-Sep-23 08:18:34 [vsys]

Position

Map Satellite

18-Sep-23 08:18:34

Internal Temperature

27.4 °C

18-Sep-23 08:21:44 [ambient]

Select regulatory info

The following regulatory information will be shown.

- **Part Name:** Senquip ORB
- **Part Number:** ORB-C1 FCC ID: 2BCCIORBC1A

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Opening the Box

The ORB is shipped in a box with a security seal that ensures that the packaging has not been opened. If this seal is compromised, the box may have been opened, in which case, a non-authorised party could have had access to the ORB password. If the device is to be used in a critical application, please ensure that the seal is intact upon receipt and remember to change your password as soon as possible.



Figure 2.1. ORB packaging with intact security seal

Mounting

The ORB can be mounted directly on a flat surface or can be attached to a pole or wall using the appropriate mounts that are included when you purchase your ORB.



Figure 2.2. ORB mounting points circled in red

When attaching the ORB to a panel, use the four M5 bolts that are included and screw directly into the tapped holes on the rear of the ORB enclosure.

Warning: The depth of the tapped holes in the rear of the ORB enclosure is limited to 5mm; attempting to fasten to a depth exceeding 5mm may damage the enclosure.

Two multipurpose brackets that allow mounting to a pole or a wall are included with your ORB.



Figure 2.3. ORB mounting brackets

If attaching to a pole, use the four M5 bolts provided to attach the brackets as shown below. The pole mounting plate is designed to be used with commonly available jubilee-clips. Thread the strap end of a jubilee-clip through the slots in the top of the bracket. Repeat for the bottom bracket with a second jubilee-clip. Pass the straps around the pole and into the clamps. Tighten to secure the ORB to the pole.

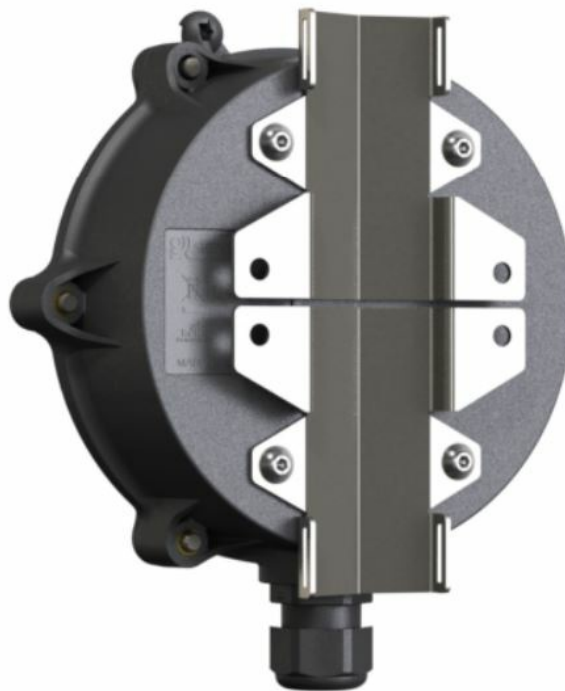


Figure 2.4. Attaching the pole mount bracket

The same mounting brackets can be used to attached the ORB to a wall. Attach the brackets to the rear of the ORB as shown below using the four supplied M5 bolts; note that the brackets are rotated 180 degrees when

compared with how they are used for pole mounting.

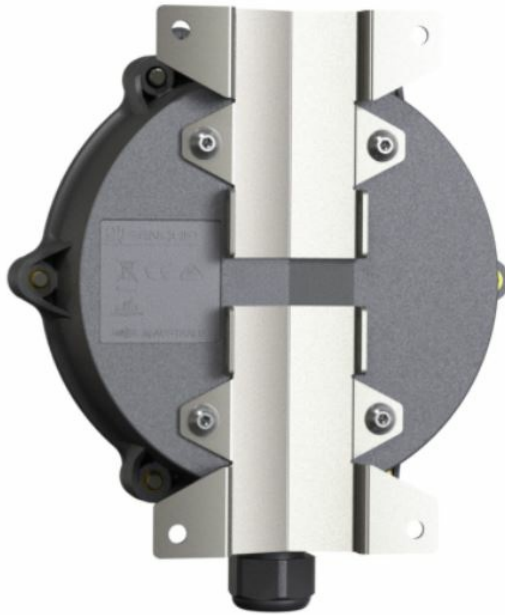


Figure 2.5. Attaching the wall mount bracket

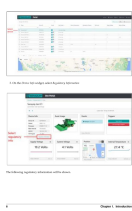
Note Jubilee-clips and wall mounting bolts are application specific and are not provided as part of the ORB kit.

The ORB should be mounted with the cable entry gland facing the ground. Mounting the ORB with the gland in another orientation may result in water ingress via the cable entry gland. The ORB contains GPS, Wi-Fi and 4G LTE4 antennas that may not function optimally if the monitor is mounted in the incorrect orientation. In-field orientation checks can be performed using the built-in accelerometer and associated tilt measurements.

User Access

The user access panel is accessed by removing the hinged front cover. From the user access panel, batteries can be replaced, a SIM card can be inserted, wiring functions can be performed, diagnostics can be performed and the device can be reset or placed in setup mode.

Documents / Resources

	<p>SENQUIP ORB-C1-H Telemetry Sensor Device [pdf] User Guide ORBC1A, 2BCCIORBC1A, ORB-C1-H, ORB-C1-H Telemetry Sensor Device, Telemetry Sensor Device, Sensor Device</p>
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