

QUICK START MANUAL



ReVibe ANURA™

Self-powered monitoring system for vibrating screens



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INTRODUCTION

Thank you for purchasing the ReVibe Anura™ self-powered monitoring system for vibrating screens.

ReVibe Anura™ is a self-powered fit-and-forget industrial monitoring system designed to monitor the movement of a vibrating screen through synchronized wireless sensor nodes. The system transmits data wirelessly to cloud services or persists data locally. Where it can be accessed by the user to understand the status of vibrating screens, and enabling predictive maintenance and ensuring operational excellence.

SYSTEM PARTS

Depending on the purchased configuration, the number of components may vary. However, a complete ReVibe Anura™ self-powered monitoring system for vibrating screens includes the following parts:

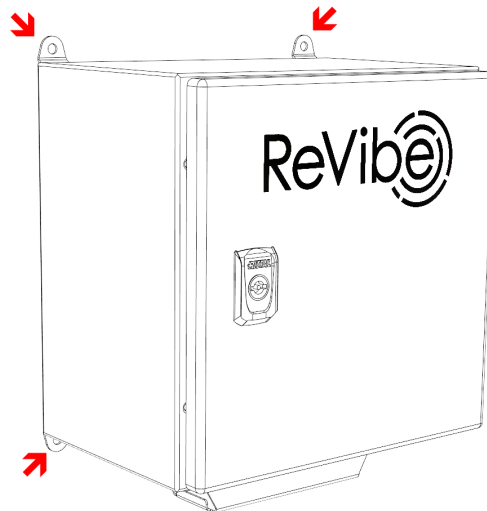
Name:	Part no:
Anura™ Base hub	10070
Anura™ TR1	10064
Anura™ VS1	10067
RJ45 - Neutrik EtherCON cable 10m	10069
RJ45 - Neutrik EtherCON cable 30m	10072
Anti slip mounting guide	20332
RAM Strap Hose Clamp	40006
RAM Double socket arm	40007
RAM Ball adapter with AMPS Plate	40008

(Note: An ethernet cable (not included) is required to connect the base hub to your network solution.)

QUICK START INSTALLATION

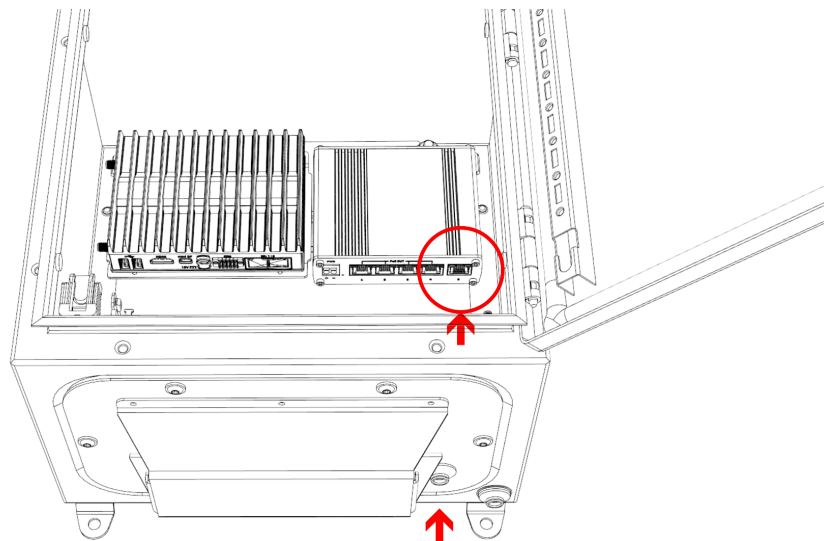
1. Install the Base Hub

Mount the base hub vertically, ensuring cables exit from the bottom. Follow local electrical codes for safe installation. Supply power to the base hub from a standard wall outlet.



2. Connect to Network

Use an ethernet cable (not included) to connect port 5 on the Teltonika TSW101 (mounted in the base hub) to a DHCP-enabled router or modem. Thread the ethernet cable through the pre-drilled hole on the base hub and secure it with the provided grommet to ensure IP65* rating.



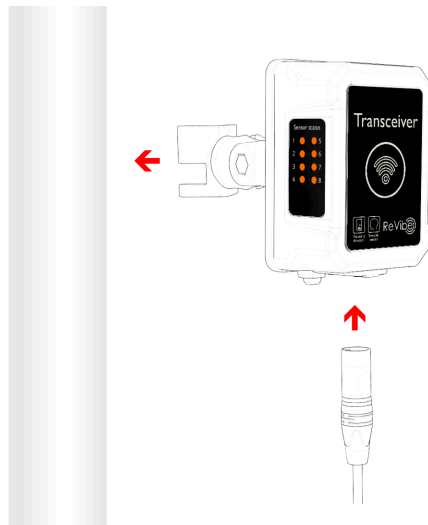
*IP65 classification indicates the level of protection against dust and water ingress. It signifies that the equipment is dust-tight and protected against low-pressure water jets from any direction.

3. Mount the Transceiver(s)

Use the included RAM mounts to secure the transceiver(s) in desired locations.
Line of sight to the sensor nodes greatly improves reception.

4. Connect Transceiver(s)

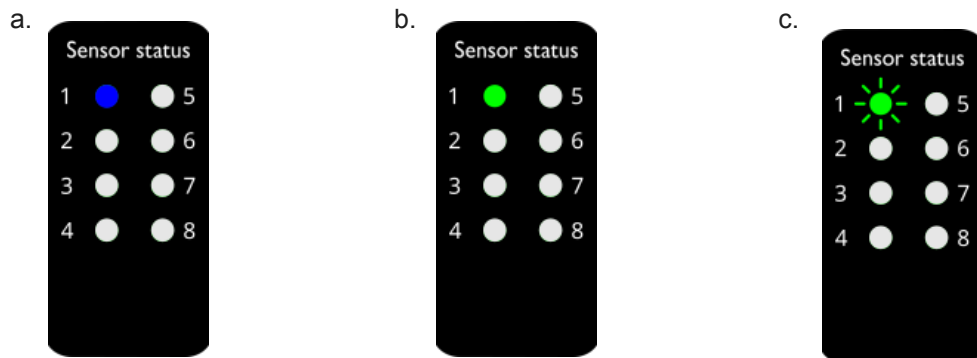
Use the provided RJ45 to Neutrik etherCON cables to connect the transceiver(s) to the available PoE ports on the base hub. Eight orange LEDs on the transceiver indicate power and readiness on startup.



Transceiver with RAM mount installed, fixate the RAM mount to a structure (eg. pole or railing) Connect the Neutrik etherCON to the connector situated in the bottom of the transceiver.

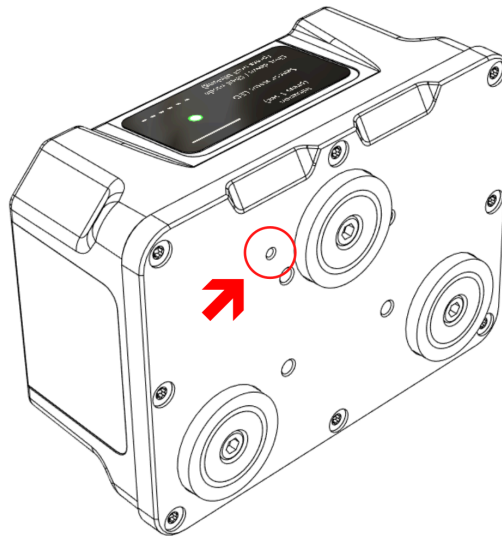
5. Connection Indication Transceiver(s)

- A blue LED on the transceiver indicates it's connecting to a sensor node.
- A solid green LED means the connection is established.
- A blinking green LED indicates data is transmitted from the sensor node.



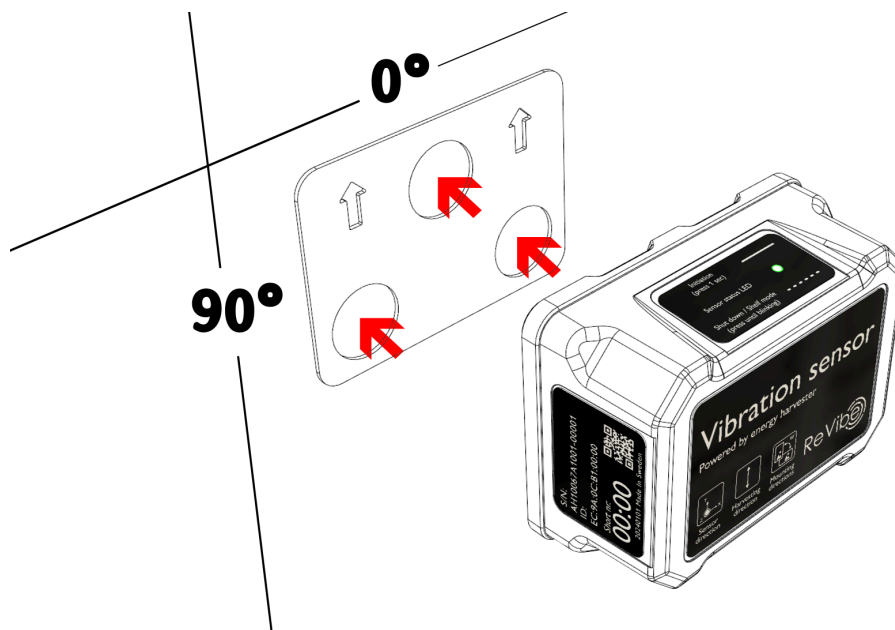
6. Activate Sensor Nodes

Locate the hole closest to the sole top magnet on the sensor node. Use a thin blunt tool (like a ball point pen) to press and hold the button in the hole until a green LED lights up. This indicates the sensor node is activated. To turn off the sensor node, press and hold the button and release when a red LED blinks.



7. Install the Sensor Node

Install the sensor node leveled on the vibrating screen utilizing the anti-slip mats on the areas of the screen that is to be monitored. (Tip: use a spirit level to ensure 0° installation)



8. Charge and status of the sensor node

The sensor node contains an energy harvester and a rechargeable power cell. The sensor comes delivered in a charged state. Maximum charge is 4.2V and the sensor will operate until the discharged state of 2.9V is reached. When discharge is reached the sensor node will turn off in order to protect the battery cell.

When the sensor node is installed on a vibrating screen that is moving within specified frequency and amplitude, the harvester will charge the battery cell until 4.2V is reached.

9. Data Collection

When the vibrating screen is operational, sensor nodes will send vibration data based on user settings. Data will be delivered to the chosen end-point.

The system continuously transmits health data (Temperature, Battery voltage, Harvesting voltage, RSSI) even when the screen is non operational.

FIRMWARE UPDATES

The TR1 transceiver and the VS1 sensor node support firmware updates. The gateway software is updated by ReVibe Energy in conjunction with the customer. Please refer to the user manual for each component for more information on this topic.

PRODUCT CARE

To ensure the longevity and optimal performance of TR1, please follow these care instructions:

General use:

Do not drop, throw, or subject the product to excessive force, as this could damage the plastic casing, aluminum plate, or internal components.

Cleaning:

Use a soft, damp cloth to gently clean the plastic casing and aluminum bottom plate. Avoid abrasive materials or harsh cleaning agents, as they may scratch the surfaces or damage the finish.

SUPPORT, WARRANTY & RMA ASSISTANCE

For help with product support, warranty claims, or initiating an RMA (Return Merchandise Authorization), our website provides all the resources needed.

<https://revibeenergy.com/>

RECYCLING

Disposal of Electrical and Electronic Equipment

This product is marked with the crossed-out wheelee bin symbol to indicate that it must not be disposed of as general household waste. Instead, it should be taken to an appropriate collection point for recycling electrical and electronic equipment. Proper disposal helps prevent potential harm to the environment and human health and promotes the sustainable reuse of materials. For more detailed information on disposal and recycling, please contact your local authorities or the retailer where the product was purchased.

CONTACT

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