

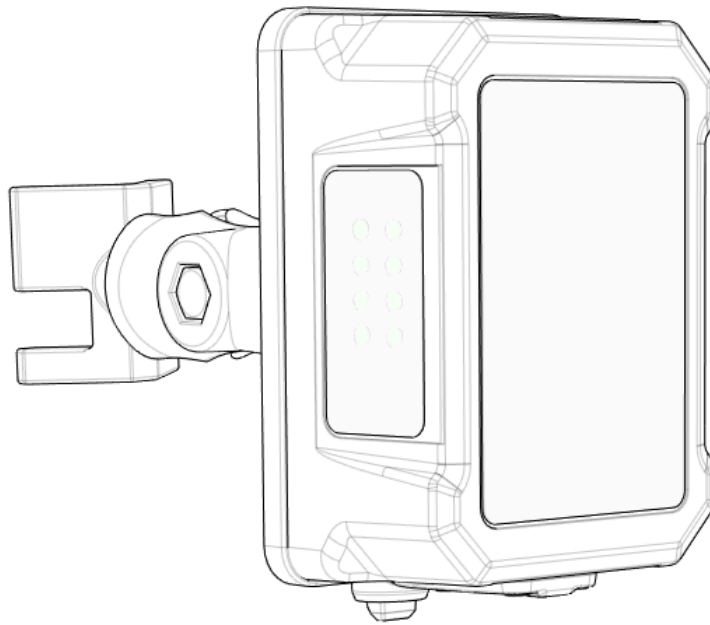
10064_TR1_Technical_Manual

TECHNICAL MANUAL



TR1

10064 Transceiver



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INTRODUCTION

The **TR1 (10064)** is a Power-over-Ethernet (PoE) transceiver specifically engineered for wireless communication with the ANURA VS family of sensors. TR1 enables the Anura system to establish and manage connections with up to eight VS1 sensors per unit.

Ethernet cabling allows for data transmission over distances of up to 100 meters.

PACKAGE CONTENTS

Name:	Part no:
TR1 transceiver	10064
RAM Strap Hose Clamp	40006
RAM Double socket arm	40007
RAM Ball adapter with AMPS Plate	40008

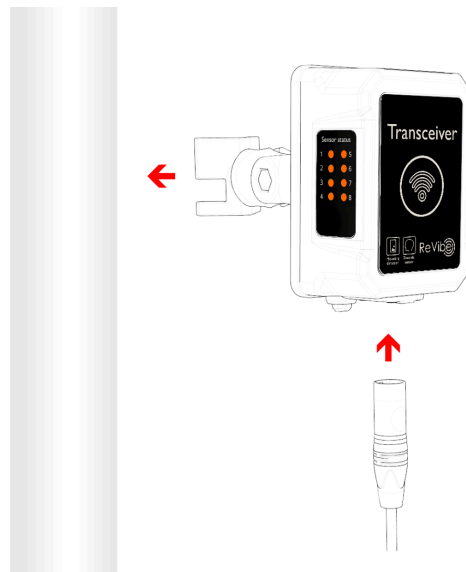
INSTALLATION

1. Mount the Transceiver(s)

Use the included RAM mounts to secure the transceiver(s) in desired locations. Line of sight to the VS1 sensor nodes greatly improves signal strength (RSSI).

2. 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.

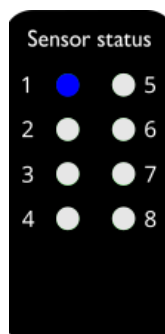


Transceiver with RAM mount installed, fixate the RAM mount to a structure (e.g. pole or railing) Connect the Neutrik etherCON to the connector situated in the bottom of the transceiver. An audible click indicates that the connector is secure.

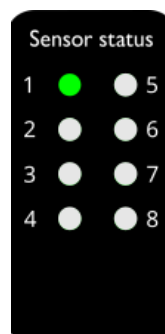
3. Connection Indication Transceiver(s)

- A blue LED on the TR1 indicates that a connection to a VS1 unit is being initiated.
- A solid green LED indicates that connection to the VS1 is established.
- A blinking green LED indicates data is transmitted from the VS1 sensor unit.

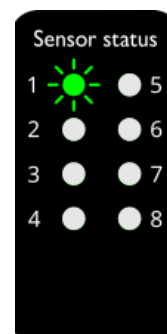
a.



b.



c.



FIRMWARE UPDATES

The TR1 supports upgrades using the Ethernet connection, firmware updates can be performed through the API or SDK,

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 wheellie 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.

TR1 TECHNICAL SPECIFICATIONS

Power supply:

PoE, supporting IEEE 802af.

Typical Power consumption:

1.2 W

Enclosure material:

Bottom plate: Hard anodized (type III) aluminum alloy.

Casing: PA6, Black.

Ingress protection:

IP65

Typical weight:

560g.

Dimensions: (excluding mounting accessories.)

140x98x60 (height x width x depth)

Operating Temperature:

-40°C to +80°C

Storage Temperature:

-40°C to +80°C (-40°F to +140°F)

Relative humidity:

0 to 95%, non-condensing

Mounting interface:

3x Pot magnets / Universal AMPS 4 hole pattern, 30x38mm.

Input connections:

PoE, IEEE 802 af.

10/100 Ethernet on RJ45, Neutrik etherCON CAT6a required for IP65.

Network Connections 10/100/BASE-T Ethernet on CAT6a: up to 100m

Wireless Communication:

2.4GHz

Connections:

Up to 8

Tx Power:

Typ. 0 dBm

Rx Sensitivity:

-98 dBm

Data Rates:

1 Mbps

Max data throughput:

4 sensors

Sample rate (Hz): 1024

Sample length (seconds): 5

Number of samples: 5120

Snippet interval (seconds): 60

Frequency:

2.400 to 2.483 GHz

Antenna Gain:

Typ. 6dBi

Time synchronization offset:

Typ. <5 µs

Expected product lifetime:

>5 years

ACCESSORIES

Cables:

Ethernet RJ45-NEUTRIK EtherCON CAT6a 10m

Ethernet RJ45-NEUTRIK EtherCON CAT6a 30m

Ethernet RJ45-NEUTRIK EtherCON CAT6a 60m

Mounting:**Transceiver side**

4 hole 2" x 1,7" square base (included)

Extension arm

3" arm (included)

Rail side

Hose Clamp Base (1-2.1") (included)

Tough-Claw™ Large Clamp Base (1-2.2") (additional)

CONTACT

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