AQUALABO LOG-AQUA Autonomous Communicating Datalogger User Manual

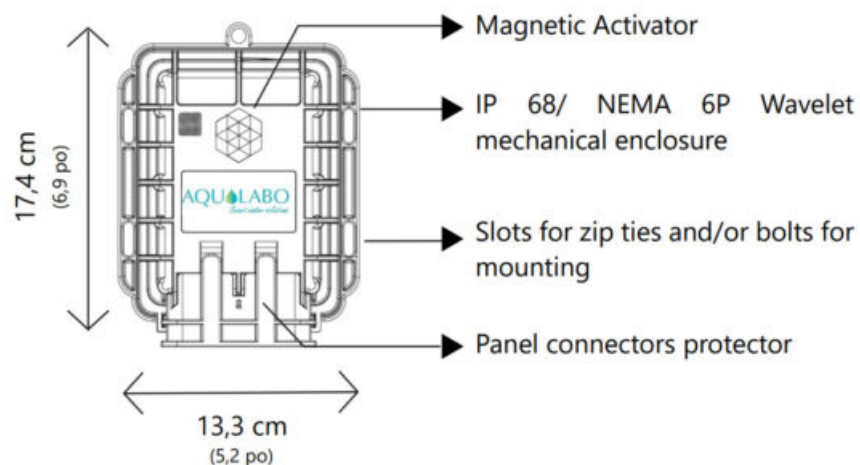**LOG-AQUA Autonomous Communicating Datalogger
User Manual**

It is important that you read the Quick Start Guide in a controlled environment prior to installation.
Set up, activate, and successfully test the entire system (LOG-AQUA, sensors, and antenna connection) indoors, in a controlled environment, before going to the field for installation
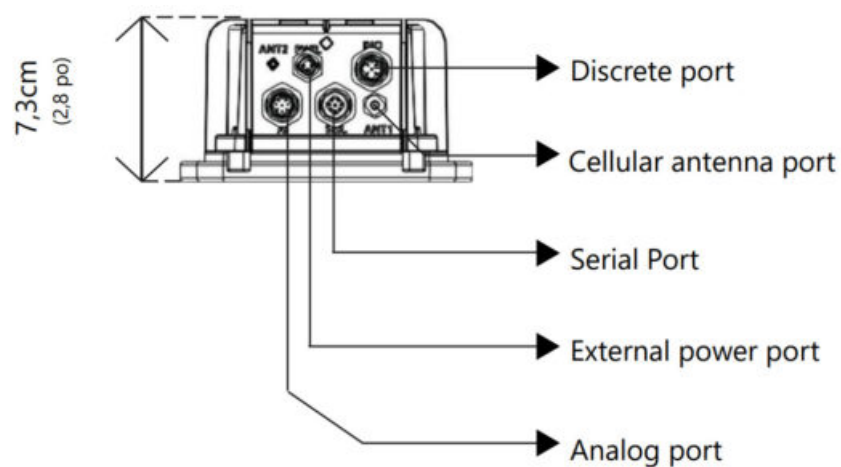
Contents

SCHEMATIC

FRONT

BOTTOM

INTERNAL UPPER ENCLOSURE

Military-grade lithium battery pack
(field replaceable, non-rechargeable)

Interface board ON/OFF switch

Indicator LEDs
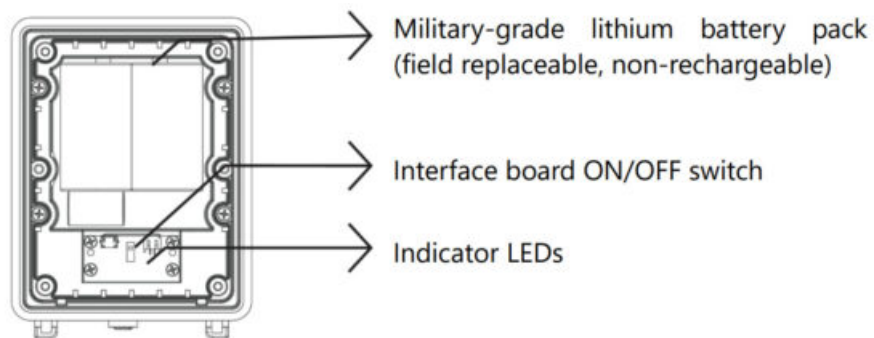
INTERNAL LOWER ENCLOSURE

GSM antenna

GPS antenna

SIM card slot #1
SIM card slot #2

Memory card

Cellular modem

COMPONENTS

LOG-AQUA

1x

Logger Activator

Panel connectors protector

1x

Cellular antenna and mounting bracket
(REQUIRED)
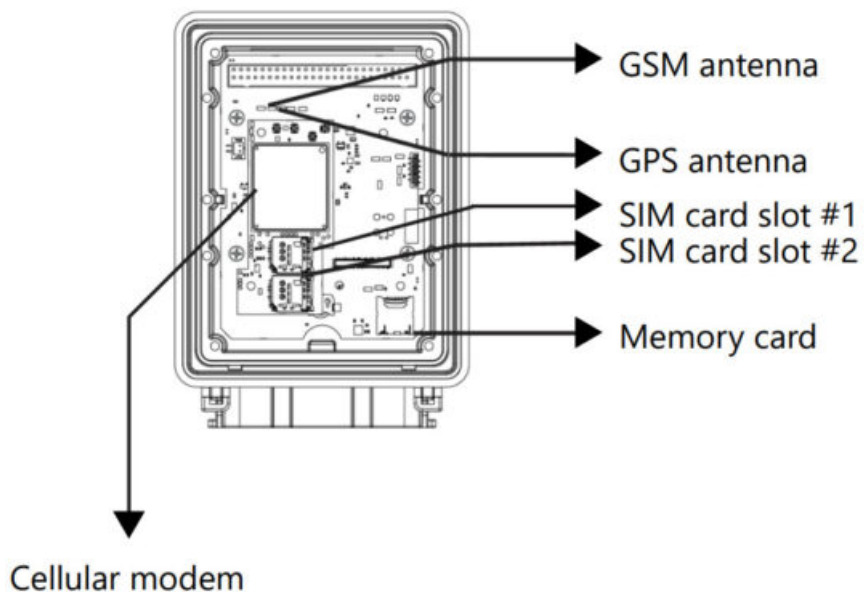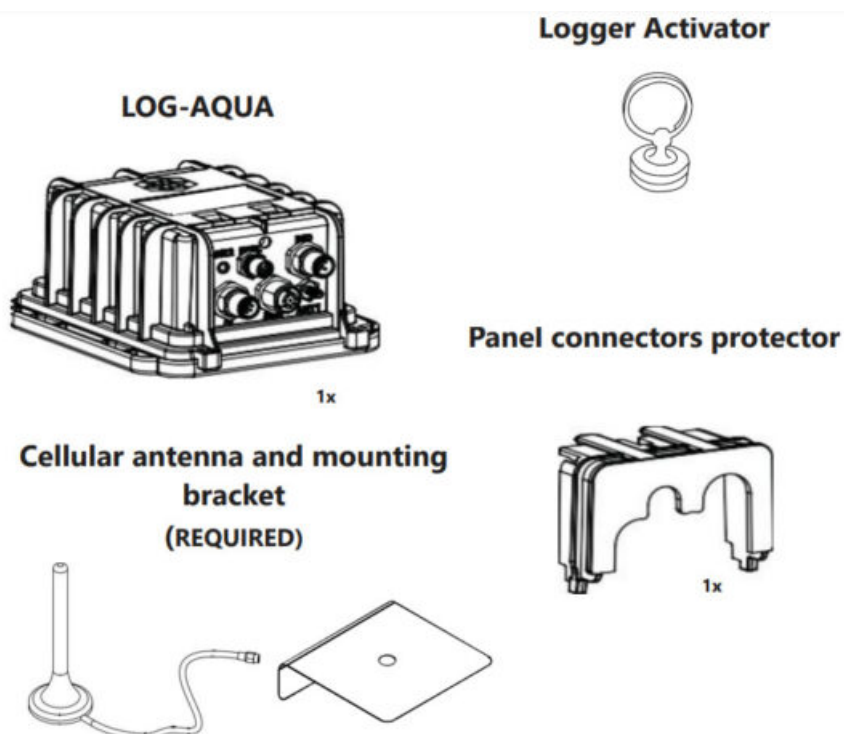
EXTERNAL ANTENNA CONNECTION

Connect the Cellular antenna to the antenna port.



Cellular Antenna
(required)
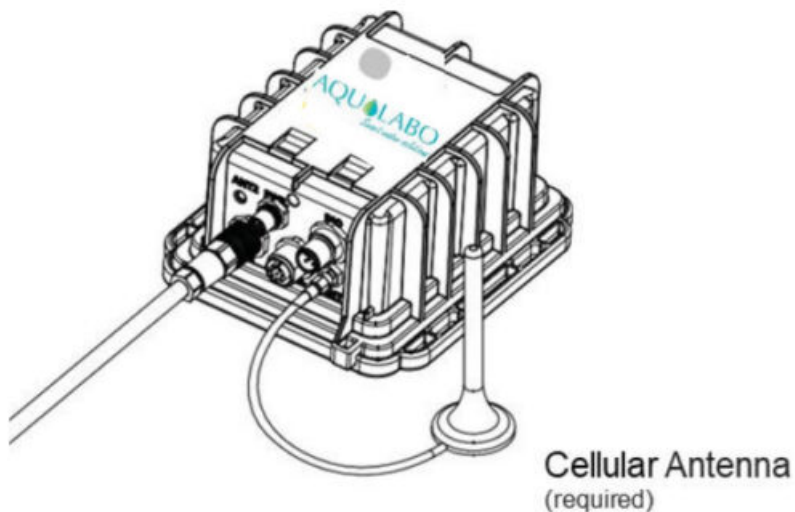
⚠ The antenna does not appear in the remaining depictions in this guide, but it must remain connected after it is properly secured to the appropriate panel connectors.

Place the magnetic activator on the embossed logo on the front of the LOGAQUA enclosure. The data is transmitted and is visible in the user interface at **home.aqualabo.fr** (cf. Web Interface Guide).
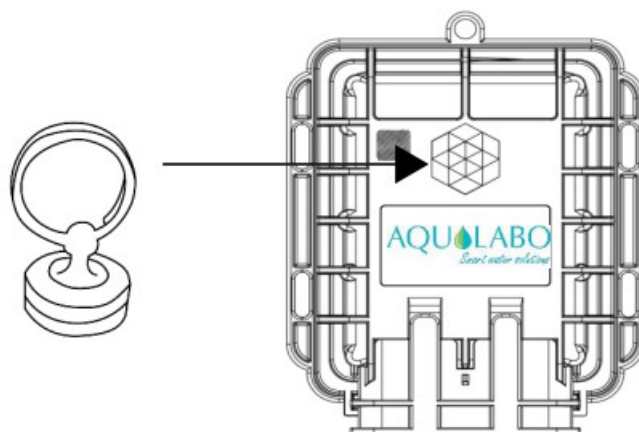

PROTECTION DU LOGGER

After connecting sensors and antenna, place the LOG-AQUA protector above the connector ports and secure the Wavelet protector into the LOG-AQUA enclosure.

Upper Clips

Protector Arches
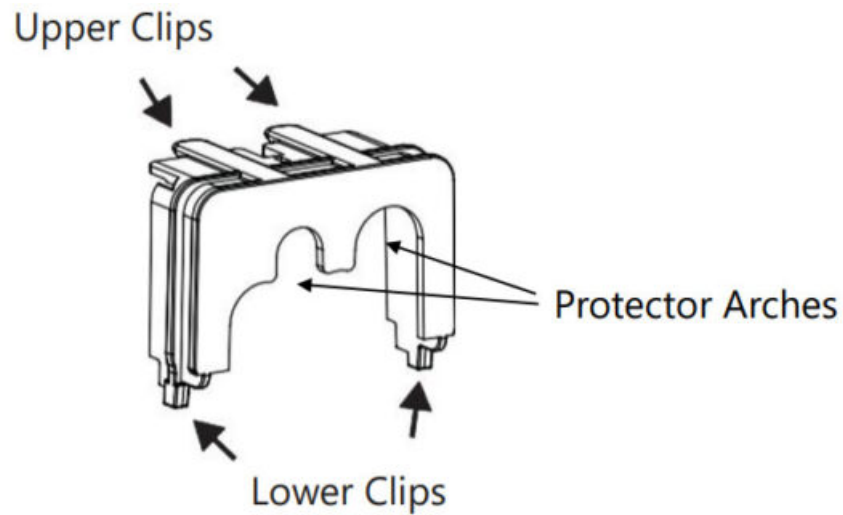
Lower Clips

a. Insert the two lower clips into the two lower holes of the LOG-AQUA enclosure.
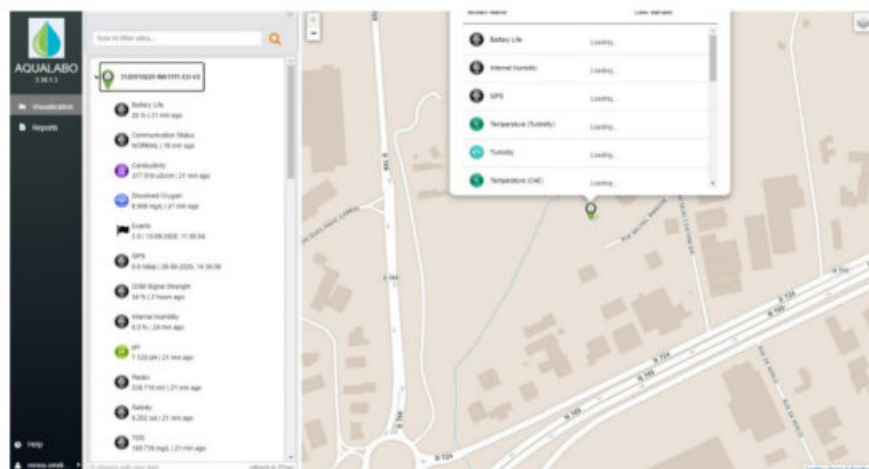b. Snap the upper clips into place in the two grooves above the panel connector
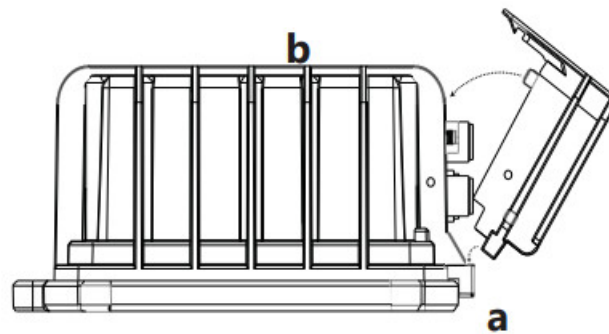
⚠ CAUTION: The protector is provided to shield the connector from tampering or over-exposure that could result in disconnected wiring.
If you need to remove the protector, grasp it at the protector arches and pull it up. The protector will snap off.

LOG-AQUA ACTIVATION

The screen display should resemble the following:

If the LOG-AQUA transmits properly, then the test was successful. You can now install the LOG-AQUA in the field and begin to collect and view your data!	If data does not transmit properly, change the LOG blem persists, contact the collabo Team for help: **sav@aqualabo.fr** +33(0)4 11 71 97 41

SPECIAL INSTALLATIONS LOCATIONS

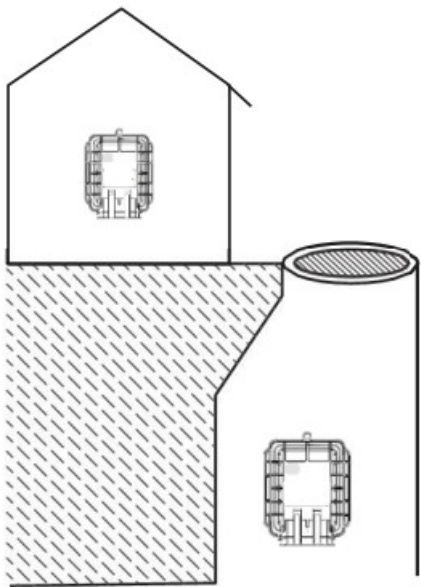### WEAK SIGNAL LOCATIONS
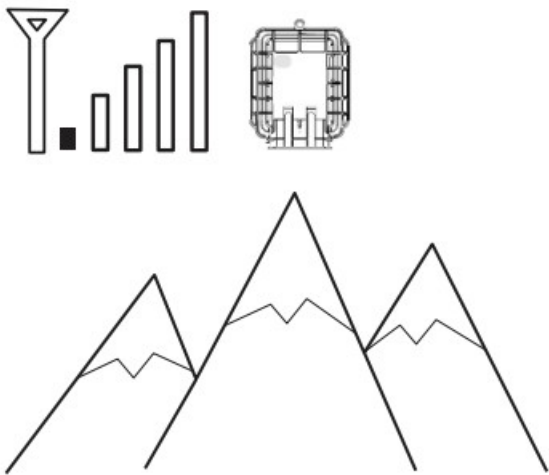
If the LOG-AQUA is installed in an area with a weak cellular signal, activate the LOG-AQUA using the magnetic activator.
You can log into the user interface using your credentials to validate that the device is transmitting and sensor
Wait for at least 15 minutes, then log in to the user interface to confirm successful transmission.
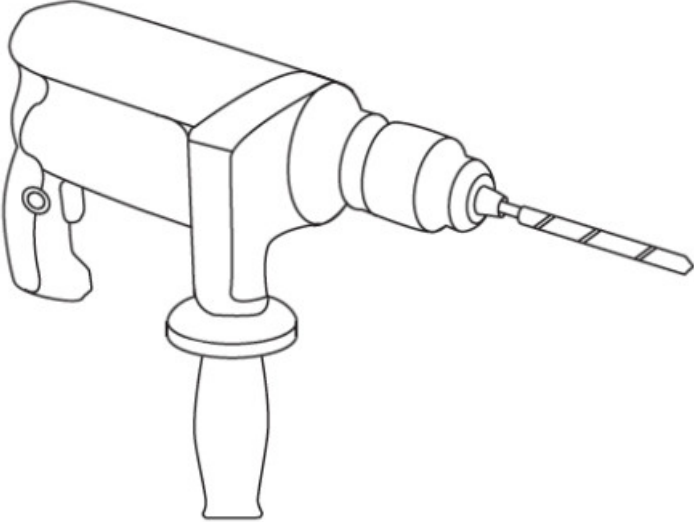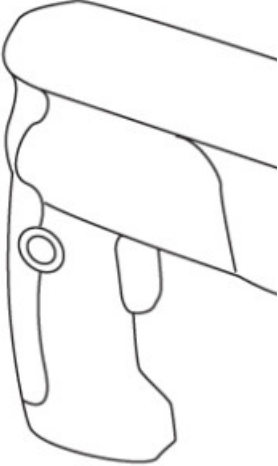
UNDERGROUND/INDOOR

If the LOG-AQUA is installed in an area with a weak cellular signal, activate the LOG-AQUA and place in the intended installation location with closed doors/access hatch. Wait for at least 15 minutes, then log in to the user

interface to confirm the updated location on the map. Before installation, initiate the GPS out by activating the LOG-AQUA (see step 3).

MONTAGE DU LOG-AQUA
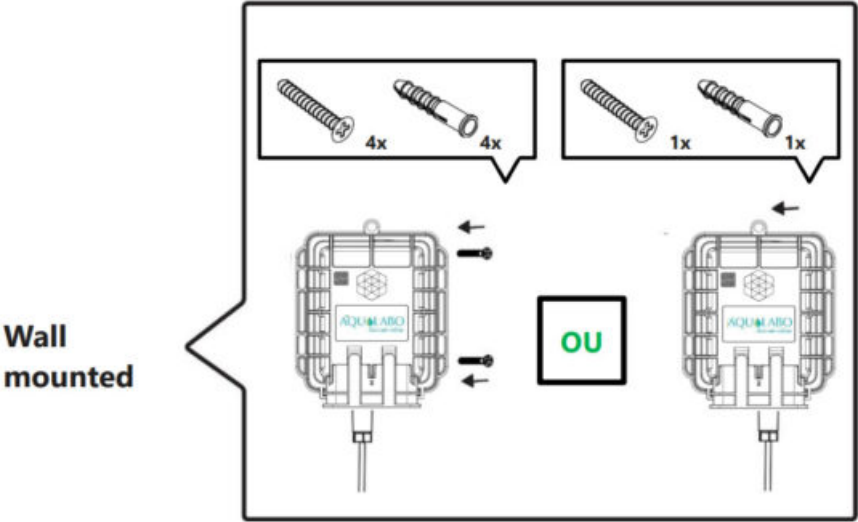
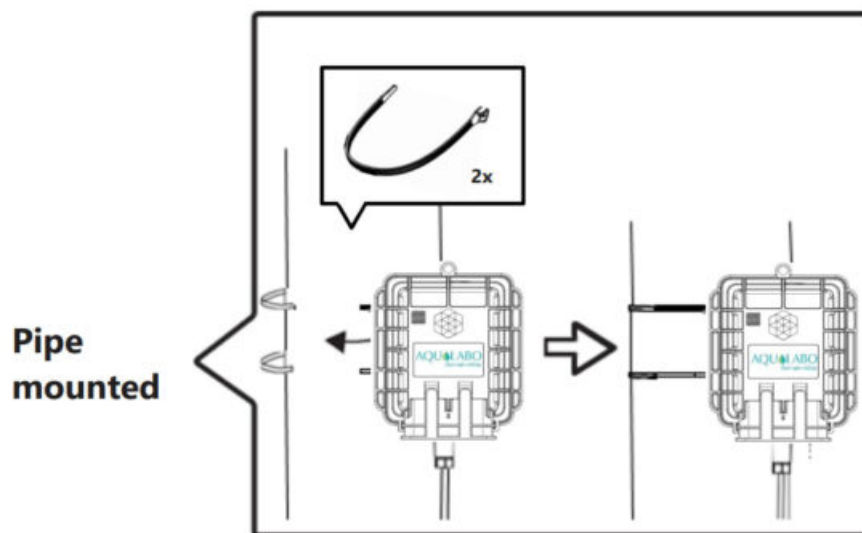**Additional tools and/or materials might be required (not included)**

Rotary hammer	Screwdri

LOG-AQUA MOUNTING
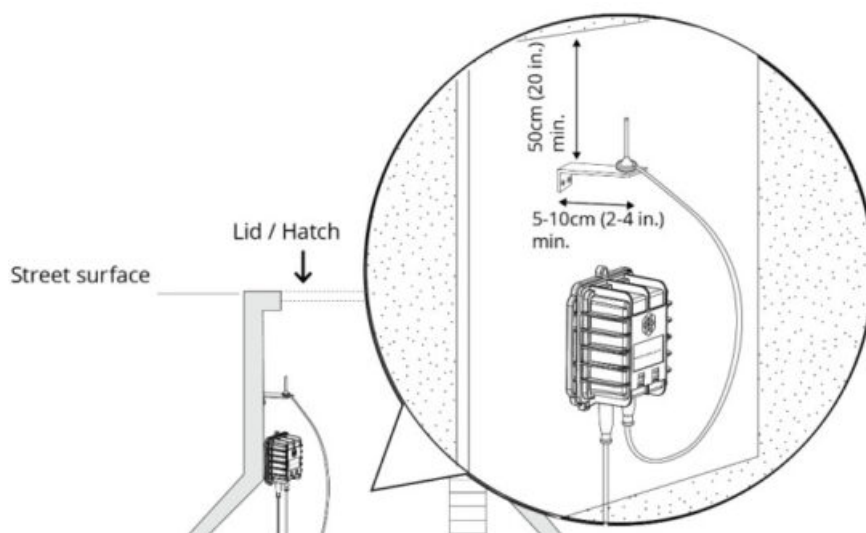
Secure the LOG-AQUA on a wall, pipe, or other secure mount location by using zip ties or screws.

ANTENNA MOUNTING

DOs

✓ Ensure the antenna connector is secured tightly to the panel connector.
✓ Mount antenna under the open sky or at least 50cm (20in.) beneath any object.
✓ Mount antenna at least 5 to 10cm (2 to 4in.) away from the wall.
✓ Mount antenna at least 5cm (2in.) away from the LOG-AQUA.
✓ Finalize the antenna setup to the exact physical conditions. For example, close the lid, close the door, etc.
✓ Make sure you have a signal and a successful data transmission via the user interface
✓ If needed during installation, use the Transmit Now command with the magnetic LOG-AQUA Activator to initiate more rapid transmissions.

DONTs
✓ Do not attach the antenna to the LOGAQUA.
✓ Do not wrap cables, zip ties, or other items around the antenna.

IMPORTANT NOTE :
There are a few- minutes of delay between a successful transmission and the use of either of these methods for initiating data transmission. Repeating the use of either method will not expedite data transmission.

WARNING :
If installing in a highly corrosive environment such as a sewer, apply technical grease to the antenna and sensor

field attachable connectors after securing them to the panel connectors.

ANTENNA MOUNTING – TROUBLESHOOTING

If the Wavelet does not transmit, move the antenna to a different position.
If the Wavelet still does not transmit after multiple attempts at repositioning the antenna, consider using an alternative solution, such as an in-road or a high-gain antenna.

**YOUR LOG-AQUA
IS SUCCESSFULLY INSTALLED!**

LOG-AQUA PINOUT
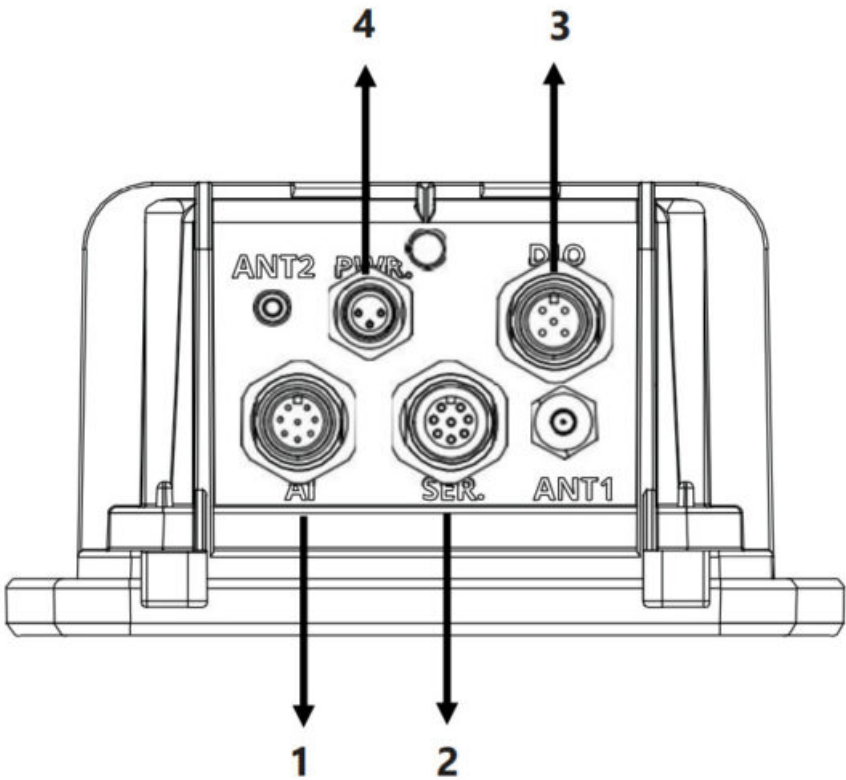
Panel Connector	Inputs
1	4x analog and lx discrete
2	RS485, RS232, SDI-12 (16 channels)
3	4x discrete
4	6-24VDC

E-mail: **info@aqualabo.fr**
Website: **https://www.aqualabo.fr/**

Documents / Resources

	AQUALABO LOG-AQUA Autonomous Communicating Datalogger [pdf] User Manual LOG-AQUA, Autonomous Communicating Datalogger
	AQUALABO LOG-AQUA Autonomous Communicating DataLogger [pdf] User Manual LOG-AQUA, Autonomous Communicating DataLogger, LOG-AQUA Autonomous Communicating DataLogger, Communicating DataLogger, DataLogger

References

- **Aqualabo**
- **Aqualabo**
- **Aqualabo - World leader in water monitoring and analysis**
- **Aqualabo - World leader in water monitoring and analysis**
- **Aqualabo**
- **Aqualabo - World leader in water monitoring and analysis**

Manuals+,