AquaVision Sani

Installation Instructions

Revision: 1.4.0 Date: 30-06-2026

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1 Installation

1.1 Mounting instructions

The AquaVision Sani is designed to be installed on a standard DIN rail. Install it inside an electrical cabinet or weatherproof enclosure fitted with a DIN rail. The module's housing has a built-in clip on the back, allowing for easy installation and removal from the rail. A small tab on the bottom of the module can be pulled up to release the module from the rail when needed.

The device should be mounted in a location where it can easily access the water meter and valve it will be controlling. For easy access, the device should be in a location where the front of the device can be easily accessed for installation, maintenance and troubleshooting, and where cables can be easily routed to the device.

⚠ Warning

Always use appropriate fasteners for the surface you are mounting on. Damage due to improper installation will not be covered under warranty.

⚠ Warning

Never mount the device in a location where it can be exposed to direct water contact. Improper installation can damage the device and void the warranty.

1.2 Wiring instructions

Power

1. Turn off the power to the circuit where the AquaVision Sani will be installed.
2. Locate the power terminals on the bottom left of the module.
3. Strip the outer sheathing of the power cable to expose the inner wires ($\pm 5cm$).
4. Strip the inner wires to expose the copper conductors ($\pm 8mm$).
5. When using multi-stranded cable, crimp ferrules on the stripped ends of the power cable.
6. Temporarily turn on the power to the circuit where the AquaVision Sani is installed.
7. The light on the bottom right of the module should illuminate. If the device does not power on, check the power connections and circuit breaker.
8. If the device powers on and boots correctly, shut it down again and switch off the power to continue with the installation.

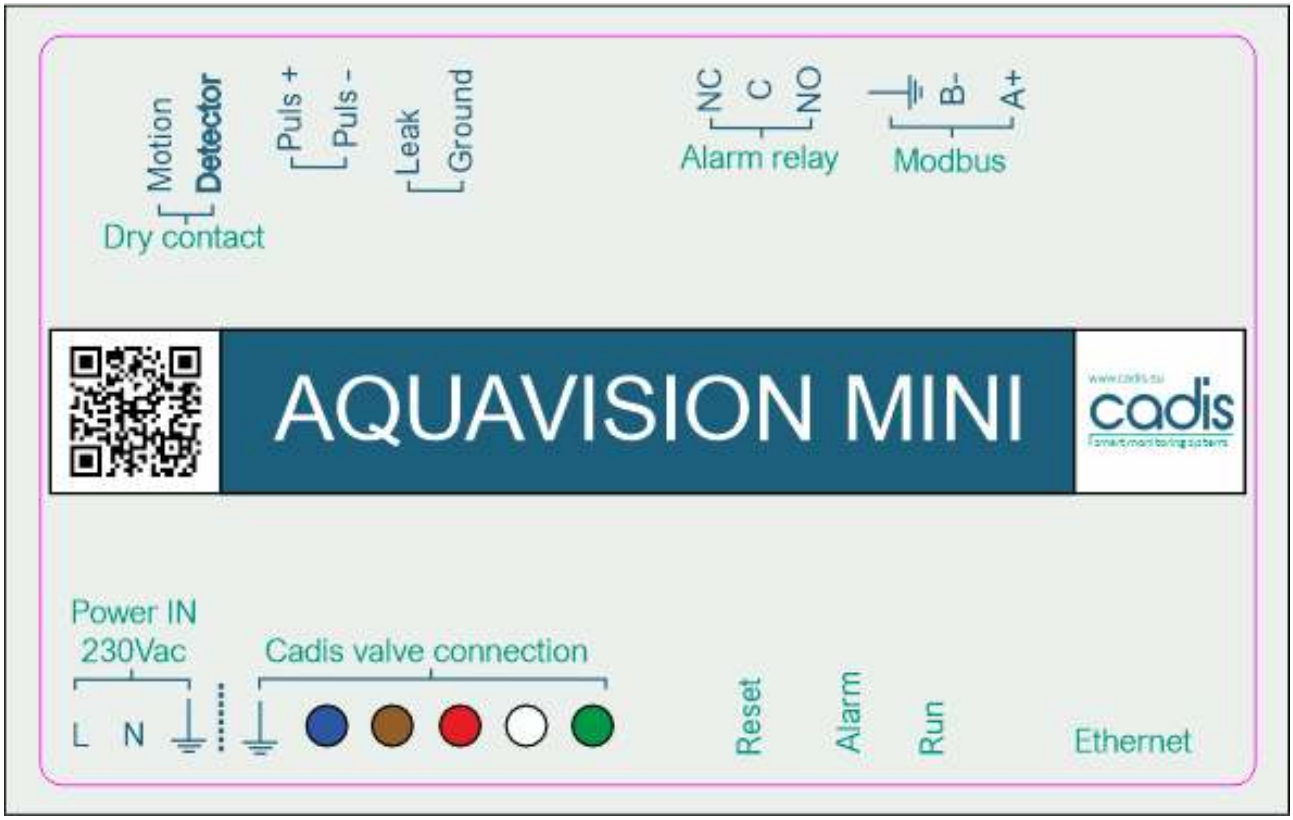


Figure 1: Connectors on the AquaVision Sani

Info

When using multi-stranded cable, it is recommended to use crimp-on ferrules. Always use the correct size of ferrule for the wire gauge you are using to ensure a secure connection and prevent damage to the device.

Water meters

1. Locate the water meter inputs on the top left of the module.
2. Strip the inner wires of the cable to expose the copper conductors ($\pm 8mm$).
3. Crimp ferrules on the stripped ends of the water meter cable. Make sure to use the correct size for the wire gauge you are using.
4. Connect the water meter to the correct input on the circuit board.

Info

It is very important to keep the wires of the water meters as short as possible and away from any high voltage cables, as these can cause interference and lead to false readings.

Motorised valves

1. Locate the valve output connections on the bottom left of the circuit board, next to the power connection (See Figure 1 D).
2. Strip the outer sheathing of the valve cable to expose the inner wires ($\pm 10cm$).
3. Strip the inner wires to expose the copper conductors ($\pm 8mm$).
4. Crimp ferrules on the stripped ends of the valve cable. Make sure to use the correct terminals for the wire gauge you are using.
5. Connect the valve cable to the corresponding valve output on the circuit board.

⚠ Warning

Connecting the valves incorrectly will prevent the module from closing the right valve or even close the wrong valve when a leak is detected.

Modbus RTU

1. Locate the Modbus connections on the top right of the module.
2. Unscrew the cap nut from the cable gland closest to the Modbus connections and thread the Modbus cable through.
3. Pull the Modbus cable through the cable gland.
4. Strip the outer sheathing of the Modbus cable to expose the inner wires ($\pm 10cm$) and the shielding.
5. Strip the inner wires to expose the copper conductors ($\pm 8mm$).
6. If the cable has a drain wire, strip it and twist it together with the shielding.
7. Crimp ferrules on the stripped ends of the Modbus cable. Make sure to use the correct terminals for the wire gauge you are using.
8. Connect the Modbus cable to the Modbus connections you identified before.
9. Connect the shielding and/or drain wire to the ground connection.
10. Screw the cap nut back onto the cable gland to secure it into place.

Info

Always use shielded twisted pair cable for Modbus connections to ensure reliable communication and prevent interference. Double-check that Modbus A and B wires are connected correctly, as reversing these will prevent communication with the device.

1.2.1 Ethernet connection (optional)

The AquaVision Sani has an Ethernet port at the bottom right of the device. This connection gives access to the device's user interface for monitoring and configuration. An internet connection is required for advanced features such as email notifications and remote access.

1. Lay an Ethernet cable (Cat5e or higher) from the AquaVision Sani to an available network switch or router.
2. Terminate both ends of the Ethernet cable with an RJ45 connector if needed.
3. Locate the Ethernet port on the bottom right of the AquaVision Sani enclosure.
4. Connect the Ethernet cable to the RJ45 port on the AquaVision Sani .
5. Plug the other end of the Ethernet cable into the network switch or router.
6. Make sure the network switch or router is powered on and connected to the local network or internet as needed.
7. Verify the network connection after powering on the AquaVision Sani by checking the network status indicator on the device or going to the device's user interface.