AquaCheckLINK - SIM Installation and sealing

Precautions

Please read this document carefully before proceeding and keep this document in a safe place for future reference.

IP rating

The AquaCheckLINK device is an IP67 rated device. Therefore the device is dust proof and water proof up to a depth of 1m. It is important however to ensure that the device is correctly assembled. Failure to do so may result in damage to the product.
Please ensure:

- the enclosure is not damaged in any way before installation

- all seals supplied with the product are correctly placed

- that only screws supplied with the product are used

- the guidelines for closing and sealing the product are followed

- the device is never opened, connect or disconnect the device when the device is wet

Power

Only connect the device to a power supply that provides the power as required by the device.
Please note the following:

- The device is specified to operate correctly with a 12 →24V DC power supply

- Please follow the recommended procedures for keeping the internal battery charged when in storage
- Please follow the recommended procedures for transporting the product

Service

The AquaCheckLINK device is designed to be left in the field for extended periods of time. This means that the device should not need to be serviced.
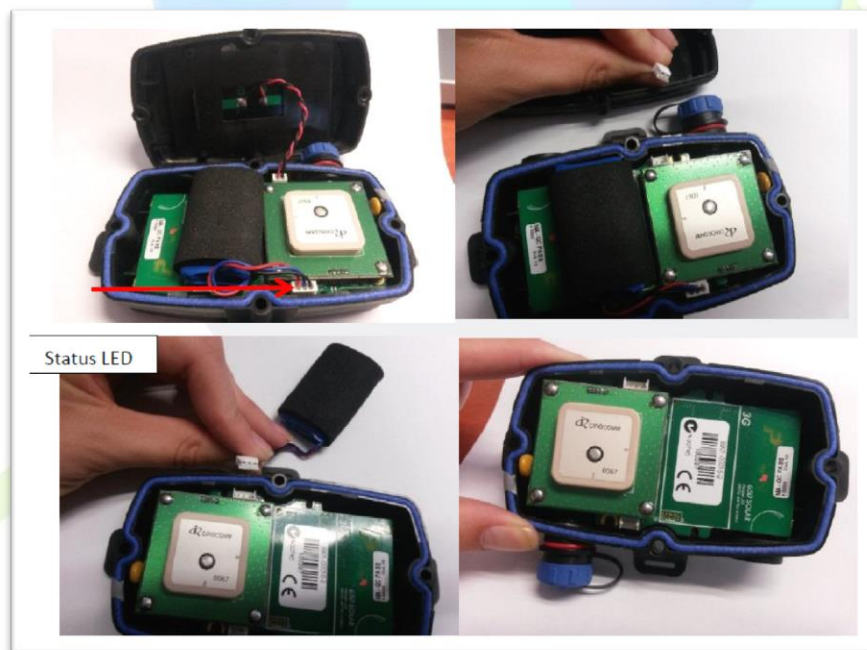Immediately remove device from service if:

- the power cable is damaged

- the device emits unusual odors or smoke

- the enclosure of the device is damaged

Removing battery and solar panel

Before the SIM card can be installed in the device it is essential to remove both the solar panel and the battery of the device.

- Gently pull on the cables while holding the edge of the battery and solar panel connector
- By default the main PCB of the device is not fastened to the base of the housing. Once removed, the main PCB board should be loose and can be gently lifted for SIM placement
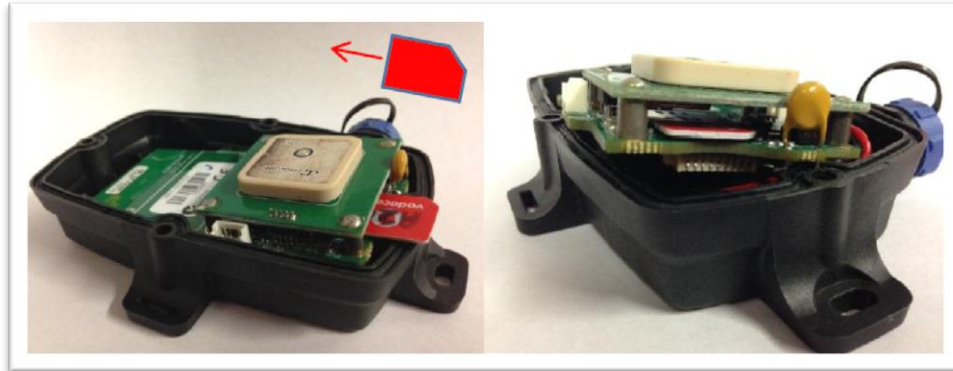

Installing SIM card

Ensure that the SIM card has no PIN set. Factory default PIN number of 0000 should be removed.
The SIM card is installed with a sliding type holder.

- Gently raise the main PCB and angle enough to slide the SIM in

- Make sure that copper contacts of the SIM card are facing downwards
- Slide the SIM under the small metal collar until properly seated
- Make sure the SIM is slid into the device with the cut corner facing outwards

Assembling the internal PCB

Before sealing the device and fitting the battery and solar panel, please ensure that the PCB board is securely attached to the plastic housing.

- Align the PCB making sure that is properly seated and all holes for screws line up.
- Please use supplied screws – there are 4 small screws supplied
- Gently screw down until secure

Sealing the device

The final step is to assemble the device and seal.

- Replace Battery and ensure that the battery is not pinched and that there are no parts of the battery put under unnecessary strain or stresses.

- Replace Solar panel

- Place lid on Base and ensure that the lid is correctly aligned with the waterproof seal evenly spaced and correctly placed around the device

- Flip the device over and place the 4 large screws provided into the base of the housing

- Gently tighten, making sure all four screws are evenly tightened.

- This is done by doing a turn or two repeatedly on each screw until all are completely sealed
- The device is ready for installation