



# Smart Leak Protector

**EN** The Smart leak protector monitors and controls your water supply and senses water leakage. It is ideal automation solution for water supply control in apartment, house or for your irrigation system.

## PACKAGE CONTENTS

Standard package contains:

Smart Leak Protector, water leakage sensor, two mounting plugs with a screw M6X45mm, Installation Manual

When ordering accessories, the package may also contain any of: 24VDC power supply adapter, water meter with pulse reader, water valve with electric coil

## INSTALLATION

- To prevent electrical shock and/or equipment damage, do not connect power supply adapter to electrical power before completing installation or during maintenance.
- Be aware that even if the power supply adapter is not connected to main electrical power, some voltage may remain in the wires — before proceeding with the installation, be sure no voltage is present in the wiring.
- Take extra precautions to avoid accidentally turning on the device during installation.
- Install the device exactly according to this installation manual – see attached installation diagrams (on the opposite side):

- Connect the water meter, water valve, water sensor and power supply. Put aside the two blind covers and decoration frame. Carefully lift the upper part of Smart Leak Protector housing to reveal the terminal for wire connections, marked with + - signs. Use the knife to make hole in the cable fitting at the bottom of the Smart Leak protector housing.

Connect the water meter, water valve and leak detector to Qubino Smart Leak Protector as indicated in the picture:

- Finally connect the 24VDC power supply as indicated. **Make sure that you pull the cables through the cable fitting.**
- Close the Smart Leak Protector housing. Make sure that the cabling inside the housing is not clamped by the housing. Place the Qubino module on the right hand side of the box as indicated in the picture 2. Make sure the Qubino module antenna is placed next to housing wall as indicated in picture 2 (see arrow 1). Place the two blind covers as indicated in the picture. Place the blind cover with the label on it to the rightmost position (see arrow 2). Press the blinds until you hear a click.

- Mark the position of the mounting holes. Place the Smart Leak Protector housing on suitable place on the wall. Use pencil to mark the position of the mounting holes. See picture 3.
- Drill the mounting holes and install the Smart Leak Protector. Use the 6mm drill. Drill the holes at markings 45mm deep. Insert fixings into holes, place the Smart Leak Protector over the holes and insert the two screws. Tighten the screws all the way. See picture 4.

- Plug the power adapter into power outlet.
- Power on the Smart Leak Protector. Press the Power-on button on Smart Leak Protector. The white light indicates the Smart Leak Protector is turned on. See picture 5.
- Include the device into the Z-Wave network. See Z-Wave inclusion section and picture 6.

- If you have connected water valve\*, press the water valve push button of Smart Leak Protector. Check that the water valve is closed (water flow meter is steady) and that button light indicator is ON. Press the button again and verify that the water valve is open (water flow meter is turning) and that button light indicator is OFF.

\*NOTE: your water valve must be of "Normally Open Valve" type. See your water valve manual for details.

## SAFETY INFORMATION

### Danger of electrocution!

Installation of this device requires a great degree of skill and may be performed only by a licensed and qualified electrician. Please keep in mind that even when the device is turned off, voltage may still be present in the device's terminals.

### Note!

Do not connect the device to loads exceeding the recommended values. Connect the device exactly as shown in the provided diagrams. Improper wiring may be dangerous and result in equipment damage.

## Z-WAVE INCLUSION

### SMARTSTART INCLUSION

- Scan QR code on device label and add S2 DSK to Provisioning List in gateway (hub)
- Connect the device to the power supply
- Inclusion will be initiated automatically within few seconds of connection to the power supply and the device will automatically enroll in your network (when the device is excluded and connected to the power supply it automatically enters the LEARN MODE state).



## MANUAL INCLUSION

- Enable add/remove mode on your Z-Wave gateway (hub)
- Connect the device to the power supply
- Press the water valve button on Smart Leak Detector 3 times within 3 seconds (1 click per second). The device has to get On/Off signal 3 times,.
- A new device will appear on your dashboard

**Note: In case of S2 Security inclusion a dialog will appear prompting you to enter the corresponding PIN number (5 underlined digits) that are written on the module label and the label inserted in the packaging (check the example picture).**

IMPORTANT: The PIN code must not be lost

## Z-WAVE EXCLUSION/RESET

### Z-WAVE EXCLUSION

- Connect the device to the power supply
- Make sure the device is within direct range of your Z-Wave gateway (hub) or use a hand-held Z-Wave remote to perform exclusion
- Enable exclusion mode on your Z-Wave gateway (hub)
- Press the water valve button on Smart Leak Detector 3 times within 3 seconds
- The device will be excluded from your network, but any custom configuration parameters will not be erased.

NOTE1: LEARN MODE state allows the device to receive network information from the controller.

NOTE2: After device is excluded you should wait 30seconds before performing re-inclusion.

### FACTORY RESET

- Connect the device to the power supply
- Within the first minute the device is connected to the power supply, press the water valve button on Smart Leak Detector 5 times within 5 seconds

By resetting the device, all custom parameters previously set on the device will return to their default values, and a node ID will be deleted. Use this reset procedure only when the gateway (hub) is missing or otherwise inoperable.

NOTE: See extended manual for custom settings and parameters available for this device.

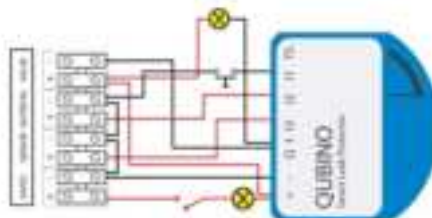
## IMPORTANT DISCLAIMER

Z-Wave wireless communication is not always 100% reliable. This device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the device is not recognized by your gateway (hub) or shows up incorrectly, you may need to change the device type manually and make sure your gateway (hub) supports Z-Wave Plus devices. Contact us for help before returning the product: <http://qubino.com/support/#email>

## WARNING

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

## EN ELECTRICAL DIAGRAM (24 VDC)



### Notes for diagram:

- + Positive lead (+VDC)
- Negative lead (-VDC)
- Q Output for electrical device (load) no. 1
- I1 Input used for water-leak detector
- I2 Input used for water meter pulse reader
- I3 Input for push-button switch
- TS Input for temperature sensor (not used in Smart Leak Protector)

## EN WARNING:

The durability of the device depends on the applied load. For resistive loads (light bulbs, etc.) and 10A current consumption of an electrical device, the product's lifespan exceeds 100,000 toggles.

## EN TECHNICAL SPECIFICATIONS

Power supply	24-30VDC
Rated load current of DC output (resistive load)*	1 X 10A / 24VDC
Output circuit power of DC output (resistive load)	240W (24VDC)
Operation temperature	-10 ~ +40°C (14 ~ 104°F)
Z-Wave operation range	up to 30 m indoors (98 ft)
Dimensions (WxHxD) (package)	398x220x95 mm / 15,67x8,66x3,74 in
Weight standard package	619g / 21,83 oz
Electricity consumption	0,4W
Switching	Relay
Z-Wave Repeater	Yes
Operating frequency band(s)	Z-wave (868Mhz EU frequency)
Maximum radio-frequency power transmitted in frequency band(s)	<2,5mW

**EN** \*In case of loads other than resistive loads, please pay attention to the value of cos φ. If necessary, connect loads less powerful than what they're rated for – this applies to all motor loads. Max current for cos φ=0,4 is 3A at 24VDC L/R=7ms.

## ORDERING CODE AND FREQUENCIES

**EN** ZMNHDXY – X, Y values define product version per region. Please check online extended manual or catalogue for the right version.

**EN** Get a real Qubino Z-Wave bible! How-to install, use cases, user manual, illustrations and more. Scan the QR code/follow the product link below:

<https://qubino.com/products/smart-leakage-protector/>



## SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Goap d.o.o. Nova Gorica declares that the radio equipment type Smart Leak Protector Relay is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://qubino.com/products/smart-leak-protector>.

## FCC compliance statement (applies only in the US):

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/ TV technician for help.

CE declaration of compliance is available on product page under [www.qubino.com](http://www.qubino.com).

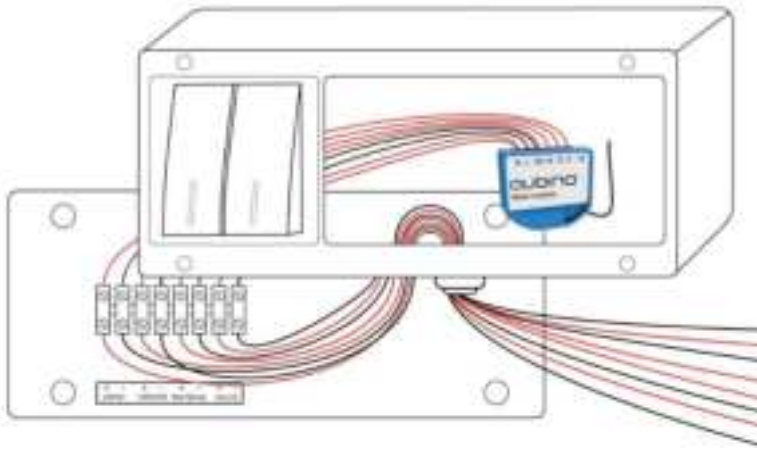
This user manual is subject to change and improvement without prior notice.

## Goap d.o.o. Nova Gorica

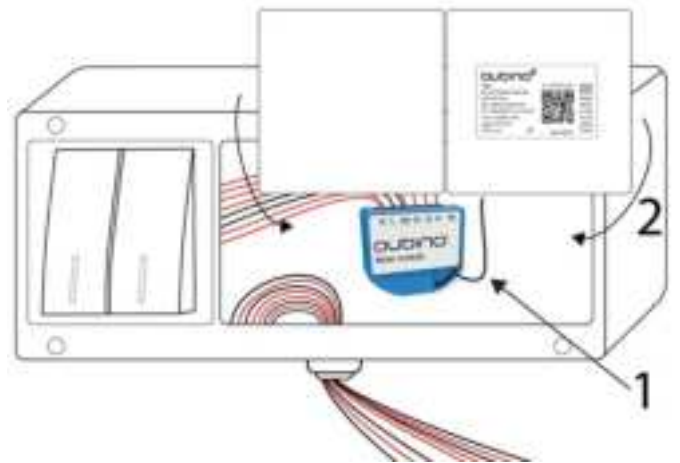
Ulica Klementa Juga 007, 5250 Solkan, Slovenia  
E-mail: [info@qubino.com](mailto:info@qubino.com) ; Tel: +386 5 335 95 00  
Web: [www.qubino.com](http://www.qubino.com); Date: 24.03.2021; V 1.0



1



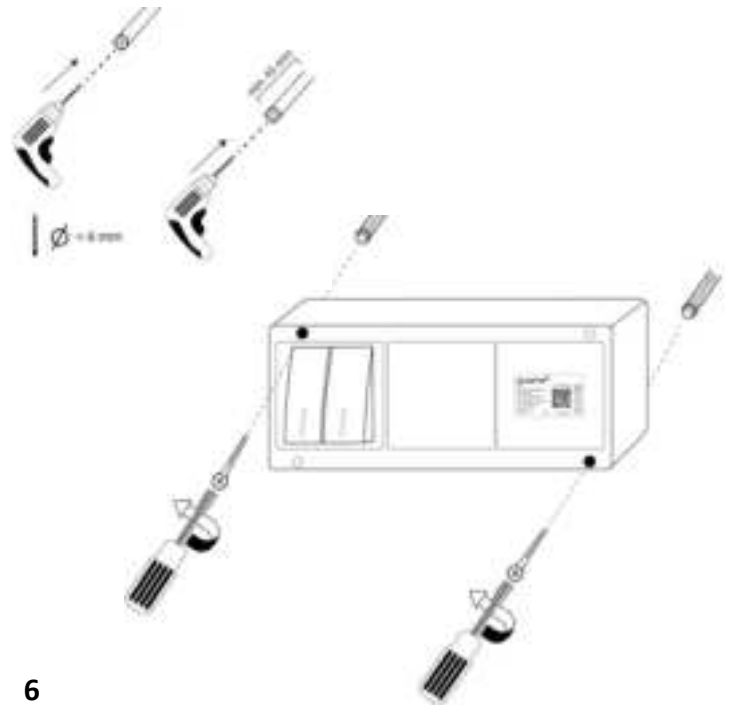
2



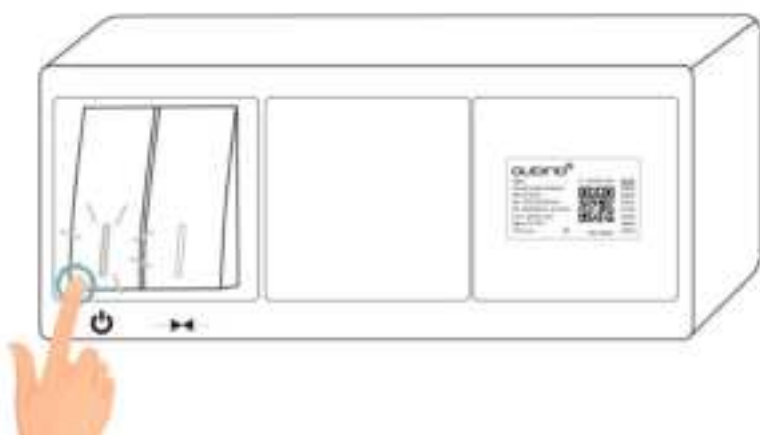
3



4



5



6

