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Installation

The appliance must be installed only by qualified technical personnel in compliance with the standards. All connections must be rated for a single-phase power supply of 230V. For the disconnection from the power line, use an all-pole switch with contact with an opening of at least 3,5mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. Keep the 230V wires separated from the low tension wires. The conductor wires must be fixed next to the terminals with the provided wire-blocking, only by qualified technical personnel during the installation.

The device has been tested with a wire for power supply type H05VV-F; the wires for power supply for external use don't have to be lighter than the ordinary wires type H05RN-F, if necessary they must be mechanically protected.

The control unit has to be installed by fixing the housing in vertical position with the wires downwards.

The programmer is in compliance with the RAEE and RoHS directories.

Description

Radio device to be used for anti-flooding detection in rooms where might be water loss, detection of water presence on bathroom and kitchen floors.

The system is composed by two units:

- TVTSCQ868A01, battery powered transmitter with water detection sensor.

- TVRCQ868A01, receiver with relay and buzzer for the management of the alarm sent by the transmitter.

Attention:

The detection of water presence will be made by means of two metal contacts. It is advisable to verify periodically if they are clean and free from oily substances on their surface. Verify also the correct detection of water presence by touching the two metal contacts with a wet sponge for more than 30 sec.

Transmitter

Attention:

The detection of water presence will be made by means of two metal contacts. It is advisable to verify periodically if they are clean and free from oily substances on their surface. Verify also the correct detection of water presence by touching the two metal contacts with a wet sponge for more than 30 sec.

The transmitter is provided with two metal electrodes connected to the card; position the transmitter vertically with the electrodes at the desired height from the floor.

It is possible to connect also a supplementary sensor by wire on the indicated terminals, this sensor has to be positioned on the floor in order to let the two metal plates detect the water presence.

During the normal functioning, the transmitter sends a survival signal with a timing given from the setting of the dip-switch: every 5 min., 10 min., 30 min. or every 60 min. (see table). This value is automatically associated during the transmitter memorization or updated every time the inner test push-button is pressed.

During the survival will be sent also a flat-battery or full-battery signal.

The detection of water presence is done every 30 sec.

The presence of an alarm signal deactivates the survival transmissions until the alarm stops.

Functioning of the test push-button

This push-button is used for the following functions:

- Memorization of the transmitter in the receiver.
- In order to send and update the value of the survival signal, press for less than 3 sec. The transmission of this signal activates the buzzer on the receiver by indicating that everything is working correctly.
- In order to simulate an alarm signal, press for more than 3 sec. (the alarm will be turned off only by the push-button P2 of the receiver).

Power supply by means of two 1,5V batteries type AAA, with a maximum duration of two years; the duration depends on the good quality of the used battery and by the set survival time.

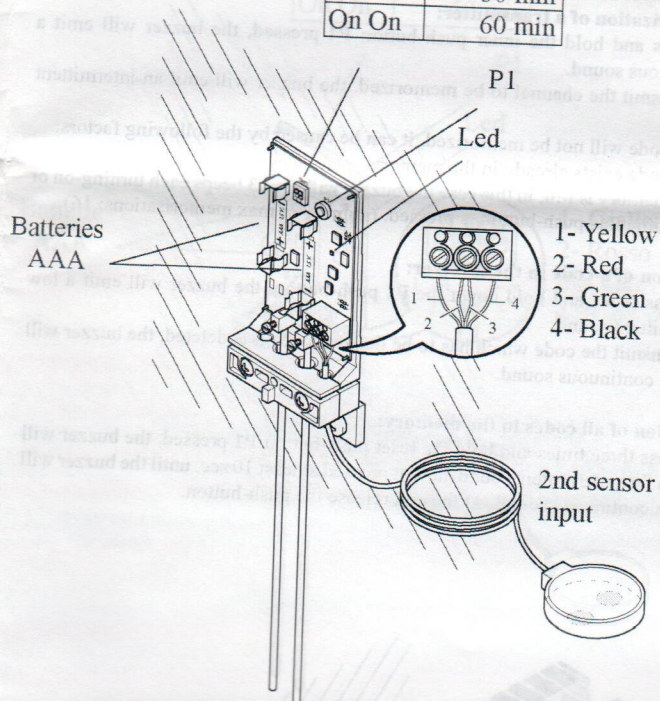
The transmission is signalled by the turning-on of a led.

Declaration of conformity to the EU directives

The transmitter conforms to the essential requirements and provisions laid down by the R&TTE 1999/5/EC directive. A copy of the declaration of conformity (DoC) is available on the site: www.telecoautomation.com/ce. The directives and norms that have been applied are:

- European directive on EMC, 89/336/EEC
- EN 300220-1, EN 300683, EN 60950

1	2	Dip-switch
Off	Off	5 min
Off	On	10 min
On	Off	30 min
On	On	60 min



Technical specifications

- Carrier frequency: 868.3 MHz
- Apparent radiated power: -3 - 1dBm
- Apparent power of harmonic products: < -54dBm (< 4nW)
- Modulation: FSK
- Power supply: 3V ± 10% (battery AAA)
- Consumption when transmitting: 10 mA
- Consumption in stand by: 1 uA
- Working temperature: - 10° - +55°C

Code Number:	Series	Model number	Draft	Date
TVSCQ-TVRCQ	TVLink RS868		T286.01	22-10-07

Receiver

During the transmitter programming, the survival time set in the dip-switch of the transmitter will be automatically memorised. It is possible to memorise up to 16 transmitters.

Once the transmitter has been memorised, by activating its transmission from the inner push-button, the survival value will be updated again.

The receiver is provided with a relay with neutral contacts for the connection of an electromagnetic valve or other closing devices and devices of water presence signalling. The activation of the relay is due to the following causes:

- The transmission of an alarm activates the relay until a manual reset by means of the push-button P2 on the receiver.

- The missing of the survival signal for two times activates the alarm signal, the reception of a new survival signal resets the alarm relay. The control of the survival can be excluded on the receiver by removing the jumper J1.

After a power on reset the relay is activated on the condition preceding the turning off.

The activation of an alarm makes the buzzer sound intermittently until the alarm reset.

The missing of the survival signal activates the buzzer with a sequence of short impulses followed by a longer impulse.

The reception of a flat-battery signal activates the buzzer with short impulses, one every 10 sec. for 1 sec., the deactivation is done automatically at the reception of a full-battery signal. After the flat-battery signalling it is advisable to replace the batteries within 15 days.

Procedures for the memorisation and deletion of a transmitter

Memorization of a transmitter:

- 1) Press and hold the inner push-button P1 pressed, the buzzer will emit a continuous sound.

- 2) Transmit the channel to be memorized, the buzzer will emit an intermittent sound.

If the code will not be memorized, it can be caused by the following factors:

- The code exists already in the memory.
- The memory is full, in this case the buzzer will emit 3 beeps each turning-on or every time this push-button is pressed. (number of max memorisations: 16)

Deletion of a code in the receiver:

- 1) Press twice and hold down the P1 push-button, the buzzer will emit a low intermittent sound.

- 2) Transmit the code which has to be deleted, once it is deleted, the buzzer will emit a continuous sound.

Deletion of all codes in the memory:

- 1) Press three times and hold the reset push-button P1 pressed, the buzzer will emit a fast intermittent sound, hold it pressed at least 10 sec. until the buzzer will emit a continuous sound. At the end release the push-button.

Alarm reset

Partial reset (only for the buzzer sound)

Push once the reset button P2 in order to turn off the buzzer sound (the relay keeps on alert)

Total reset

Push and keep pushed the reset button P2 for at least 5 seconds, after 5 seconds it will beep once. This procedure resets the buzzer sound and the relay.

Technical characteristics:

-Reception frequency	868.3 MHz
-Intermediate frequency IF	10.7 MHz
-Sensibility (finely tuned signal)	1 μ V
-Power supply	230 Vac 1.5 VA
-maximum commutable power at the relay with resistive load:	230V 5A
-Operating temperature range	-20° - +55°C

