# WaterComm

## Installation and User Instructions

**LeakSafe**™

# INSTALLATION GUIDE

## A. General

WaterComm is a 4-port leak detection and leak notification system that can be installed to act as a centrally located control panel with leak detection zones wired away from it, or as individual units installed in risk areas with leak detection tape connected.

Every port that is used is programmed with a location tag so that if a leak is detected the email or SMS notification gives precise date, time, and location information.

IMPORTANT NOTE: Prior to installation, please ensure that Leaksafe is provided with a mobile phone number where equipment test SMS's will be sent during installation. This can be amended following installation so that future alarms are sent to whoever will be managing the system. Contact Leaksafe on 0344 848 0488 or info@leaksafe.com to provide this information.

## B. Components

WaterComm device

Zone LED's

1.5M Connecting cable

Leak detection tape
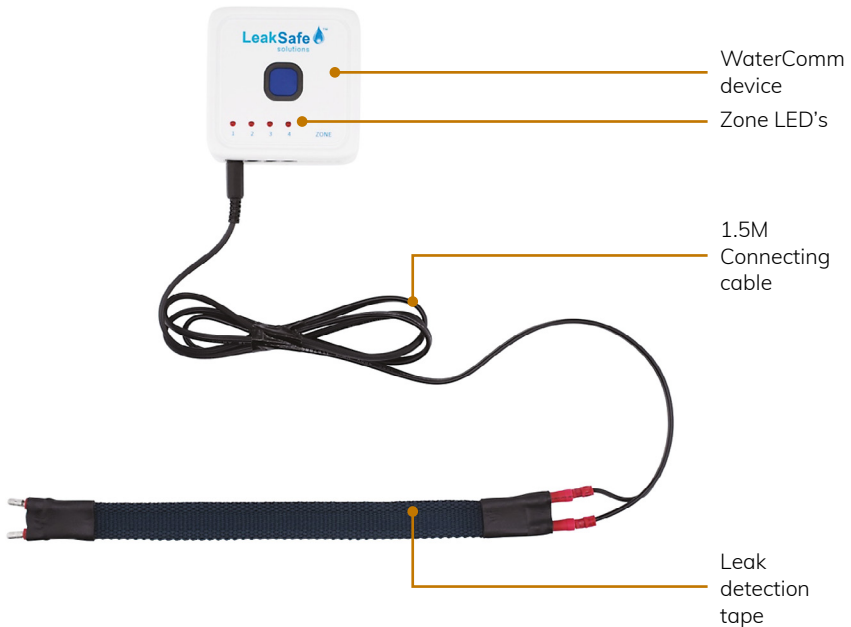
## C. Testing the WaterComm device

Ensure the lithium ER26500 battery is installed.

Test the device in its intended position to ensure that it connects to the IoT network.

Simulate a leak by plugging a connecting cable into port 1 of the device and holding the two male test pins together for 20 seconds then release the pins.

The Port 1 red LED will illuminate, and the small green and blue LED indicators on either side of the central blue On/Off button will flash to indicate that it is transmitting a leak alarm.

Check that you receive a SMS (or email).

Disconnect the cable.

## D. Installation method: leak detection tapes

Leaksafe leak detection tapes are supplied in standard lengths of 1M or 2M and can be daisy chained together if longer lengths are required.

If the system is being used as a centrally located panel, then the connecting cable can be extended using either 2 wire 13 core audio cable or YY 0.05mm$^2$ cable. No more than 25M of cable and tape can be connected in a single length.

To daisy chain lengths of leak detection tape, push the male & female connectors at the end of the tapes together and crimp using a crimp tool.

Connect the length of tape to the connecting cable by inserting the male connectors to the female connectors at the end of the tape and crimp the connection.

Position the tape as required. Tape should be laid under pipe joints and connections. The tape can be laid directly on a floor or surface with or without retaining clips depending on the location of the tape and whether it is likely to be disturbed.

Tape can also be contained within pre-drilled mini trunking if appropriate, ensuring that there are sufficient holes of adequate size so that if a leak does occur, the water would quickly soak into the leak detection tape.

## E. Installation method: WaterComm device

Mount the WaterComm device in the desired location using the supplied backplate.

Plug the leak detection tape(s) and connecting cable(s) into the allocated ports on the WaterComm device.

# USER INSTRUCTIONS

## A. General

Leaksafe's WaterComm Leak Detection and Leak Notification System comprises lengths of leak detection tape installed in areas where leaks are likely e.g., behind your Kitchen sink & dishwasher, the Utility area and under Baths, showers, WC's and basins. The tapes are connected to the WaterComm device.

If the leak detection tape in any area gets wet, the WaterComm sends a signal to Leaksafe's data platform that will immediately send a SMS and/or email with the time the leak was detected, and where the leak was detected.

The notifications will look like this:

### SMS Notification:

Re: (Property & location e.g., XX House, Flat XX Kitchen)

Leak detected

Battery level: x:xx

Temperature: xx.xx

Humidity level: xx.xx

### Email Notification:

**From:** noreply@m3h.co.uk

**Subject: Alert from Leaksafe**

**Date:**

**To:**

This is a message from Leaksafe, reference:

RE: (Property & location)

**Leak detected**

Battery level: x.xx
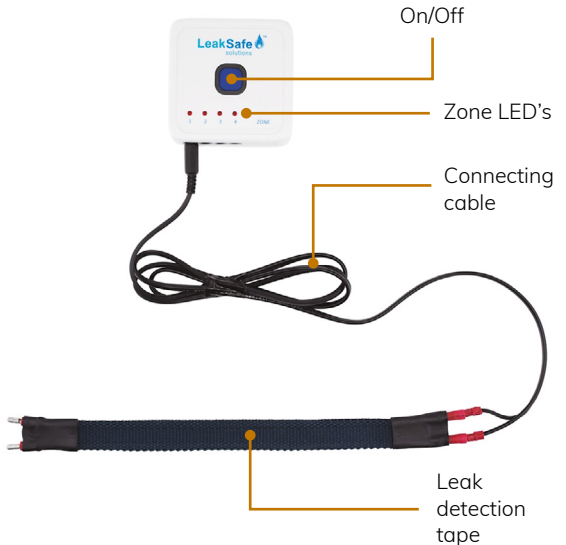Temperature: xx.xx
Humidity level: xx.xx
This is for information only -
please do not reply to this email

**LeakSafe WaterComm Device**



On/Off

Zone LED's

Connecting cable

Leak detection tape

PLEASE NOTE that the leak detection tape is deliberately sensitive and will activate with just a few drops of water.

## Responding to an SMS or Email Leak Alarm

If an alarm is raised and you don't see a puddle of water in the location, please consider whether an appliance e.g., a sink, washing machine or bath in that area has been used within 30 minutes of the alarm being raised as it may be a very small drip leak or seepage that has caused the alarm.

If an alarm is raised, the red Zone LED on the WaterComm device into which the wet tape is plugged will be lit. If you get a notification but when you look at the device the Zone LED is not on, please still check the area, but no LED signifies that the tape has dried since the alarm was raised.

When you find the source of the leak, disconnect the leak detection tape by unplugging it from the bottom of the WaterComm device. Repair the leak and let the tape dry completely before plugging it back in. If an alarm is raised as soon as you plug the tape back in, then it is not yet dry. Disconnect and leave for a further period to dry then re-connect.

PLEASE REMEMBER **to re-connect the tape as soon as possible once it is dry. The location where the tape was activated is not protected unless it is plugged into the Leaksafe RM device.**

Once a day, behind the scenes, each WaterComm monitors its battery level, the ambient temperature and humidity and whether the connected tape is wet. We call this a 'daily heartbeat'. If a leak alarm has been activated and the tape is still wet when the next daily heartbeat is transmitted, you will receive a further notification and will continue to receive them every 24 hours all the time the tape is wet. If the tape dries then wets again, a new alarm will be raised.

The On/Off button in the centre of the device turns the notification service off or on if pressed for 5 seconds – the green and blue LEDs on either side of the button will flash and then go out. If turned off the leak detection zone LED indication will still work but the device will not send a notification to the data platform and the device will be flagged as 'Silent'.

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## Maintenance

The Control Panel is either mains powered with lithium battery backup or can run off lithium battery alone. Battery life is between 3 – 5 years and you will receive a low battery warning SMS or email if the battery level falls below a certain level. To change the battery, slide the Control Panel to the right to release it from its bracket and reveal the battery compartment. Lithium battery type ER26500.