

## Installation Guide

### Utility Room

### Water Leak Detector and Temperature and Relative Humidity Sensor



**UWLDU-3**



**UTHSU**

This install guide covers the Echoflex Solutions Utility Room sensors, Water Leak Detector and the Room Temperature and Relative Humidity Sensor.

Utility Room Temperature and RH sensor model:

**UTHS\*** Utility Room Temperature and Relative Humidity Sensor

The Water Leak detector is available with sensing cable option lengths of 3, 6 or 10 feet.

Utility Room Water Leak Detector models:

**UWLD\*-3** Utility Room Leak Detector, cable length 3 feet (~1 meter)

**UWLD\*-6** Utility Room Leak Detector, cable length 6 feet (~2 meters)

**UWLD\*-10** Utility Room Leak Detector, cable length 10 feet (~3 meters)

\* The UWLD and UTHS are available in 2 frequencies. The frequency designation is in the \* position in the model numbers above. U in the model number indicates 902 MHz and Y indicates 868 MHz.

## Product Overview

The slim profile of these sensor allows them to be mounted unobtrusively behind equipment.

**UTHS** The Echoflex UTHS is a utility room temperature and relative humidity sensor. It is a simple and effective wireless device to monitor commercial and residential spaces for temperature and relative humidity. The UTHS can be used by property managers to set up automation of interior spaces for energy savings. The sensor is wireless and features 80 feet transmission range. The sensor has a temperature accuracy of 0.3°C (0.5°F) and humidity accuracy of +/- 2%

**UWLD** The Echoflex UWLD is a utility room water leak detector. It is a wireless device designed to monitor spaces for water leaks and flooding. When water is detected, a signal is sent to immediately alert a receiver or valve to shut off water or take other steps to mitigate water damage.

The detector uses liquid sensing cable technology that can be installed in dark places, such as behind water heaters or dishwashers etc. The cable comes in 3 different lengths to suit the application.

The UWLD can be used by commercial and residential property managers to have a system in place to be immediately alerted to leaks and to be able to minimize water damage when emergencies occur.



**Note:**

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*The body of these utility sensors are not waterproof and should not be mounted where it could be exposed to liquid.*

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## Preparing to Install

Careful consideration should be made when mounting the wireless devices. Do not install with large metal or concrete obstacles between the sensor and receiver. The station should be installed in the same space as the receiver or valve it is linked to.

## Installation

The utility sensors can be mounted on a wall or other vertical surface using a single screw or double sided tape (not included).

### **UWLD**

The UWLD cable should be run around areas where there is the highest probability of a leak. This could be around water pipes, dishwashers, laundry and toilet areas or basements. The body of the UWLD is not water proof and needs to be installed in a location that is sheltered from possible leaks.

## Linking the utility sensor to a receiver

The linking process requires the controller or receiver to be mounted, powered and within range of the sensor.

1. Activate LEARN or LINK mode at the receiver, if necessary refer to the manufacturers documentation.
2. Push the button on the front of the unit under the LED. The red LED will blink indicating a transmission has been sent out to the receiver.
3. The receiving unit should indicate the utility sensor has been linked (check the manufacturers documentation).



**Note:** NOTE: If the sensor is already linked to a receiver, linking again will un-link or clear the sensor from the receiver.

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## Transmissions

Both sensors broadcast a heart beat every 64 seconds to confirm the link with the sensor. The red LED blinks on each radio transmission.

The **UTHS** transmits the temperature and relative humidity readings with each heart beat.

The **UWLD** transmits an indication (normal conditions) that no water leaks have been detected with the heartbeat.

If water is detected, a transmission is issued within 8 seconds. The UWLD will continue to transmit a water detection on each heartbeat.

### ULWD Latching

The UWLD sensor has two different leak states, a current leak state, and a latched leak state.\* The current leak state will clear when the cable is dry, whereas the latched leak state will clear only when the button is pressed to clear the leaked state.

\* The EnOcean Equipment Profile is listed on page 4 of this guide. For more information on current leak state vs latched leak state refer to the EnOcean documentation on the EEP.

### Clearing the UWLD latched state

Hold the button down for 5 seconds to clear a latched leak state on a UWLD.

## Battery

The utility sensors are powered by a CR2477 - 3V Lithium coin cell battery which is not user serviceable. The battery life expectancy is minimum 7 years.

## Equipment Profiles

### UTHS

EEP: A5-04-01    Temperature and Humidity

### UWLD

EEP: D2-14-53    Leak Detection

## FCC Part 15.231 - Remote Control Transmitters

Devices equipped with 902 MHz radio:

Contains FCC ID: SZV-TCM515U

Contains IC: 5713A-TCM515U

The enclosed device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(i.) this device may not cause harmful interference and

(ii.) this device must accept any interference received, including interference that may cause undesired operation.

### IC RSS-210



For more information on Echoflex Solutions, scan the QR code:

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### Echoflex Solutions

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