

The Luna Products Flood/Freeze sensor (LP.FF02.345.1) is designed for indoor residential and light commercial use. The Flood/Freeze sensor can be easily installed under sinks, near showers, tubs, toilets, dishwashers, refrigerators, washing machines, water heaters, basements, and other areas where water may accumulate or pool. It communicates with Luna and 2GIG Control Panels over 345 MHz frequency. Signals are transmitted to the alarm control panel when it detects a wet (Loop 1) or freeze (Loop 2) condition. For additional security, the sensor is supervised and is equipped with a tamper switch that sends a tamper signal when the cover is removed.



## 1. INSTALLATION

### 1.1 General Guidance

1. Do not install outdoors.
2. Do not install in areas where the sensor would be submerged in water for more than 30 minutes.

### 1.2 Activating and Pairing the Keyfob

Activating and pairing the Flood/Freeze sensor should be performed prior to the physical installation of the Flood/Freeze sensor. To pair the sensor to the control panel, you must set the panel to pairing mode.

1. Set the control panel to pairing mode.
2. Using the test button located on the bottom of the Flood/Freeze sensor press for one (1) second and release.
3. If required, you can manually enter in the TXID of the sensor to the control panel.
4. Some systems may allow you to use their app to scan the QR code.
5. Verify from the control panel that the sensor has been paired.

**Note:** Pairing should be performed before installation.

**Note:** The TXID is the 7 digits located on the TXID/QR Code label, located on the bottom of the Flood/Freeze sensor.

Test Button



### 1.3 Installation Procedure

1. Follow Activating and Pairing the Detector instructions first.
2. Place the Flood/Freeze sensor on a level flat surface under sinks, near showers, tubs, toilets, dishwashers, refrigerators, washing machines, water heaters, basements, and other areas where water may accumulate or pool.
3. The unit is ready for use.

### 1.4 Walk Testing

1. Put the control panel into sensor test mode.
2. Using the test button located on the bottom of the Flood/Freeze sensor press for one (1) second and release. The Flood/Freeze sensor transmits a signal to the control panel.
3. Check the control panel to see if the test signal was received.
4. Exit sensor test mode.

**Important!** Instruct the customer to test at least once a month to verify proper function of the Flood/Freeze sensor.

### 1.5 Unpair the Detector from Panel

1. Follow control panel instructions to remove the Flood/Freeze sensor from the panel.

### 1.6 Replacing the Battery

1. Carefully remove the four silicone rubber feet on the bottom of the Flood/Freeze sensor, follow the four screws. Set these aside for use later.
2. Gently pry the casing apart.
3. Replace the battery with One (1) CHAO CHUANG CR2450 Lithium battery, or equivalent CR2450 Lithium battery. Carefully insert a small flathead screwdriver along the side of the battery and gently twist the screwdriver. This will pop the battery out of battery mounting bracket.
4. Replace the CR2450 Lithium battery with the + side facing up towards you.
5. When putting the top and bottom cases back together again, note that the top piece has a circle with an X thru it. This circle with an X must go over the battery directly for a proper seal and function.
6. Replace one screw into each hole and tighten gently. Next replace each of the four silicone rubber feet.
7. After replacing the batteries, it is recommended that you test the Flood/Freeze sensor to make sure it works properly.

**Note:** Removing the cover will trigger a zone tamper signal to the control panel. If the panel has an activate monitoring account, it will send a signal to the Central Station as well.

**CAUTION!** Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to the battery manufacturer's instructions.



## 2. Specifications

**RF Signal Range:** Open Air 328 ft (100 m), with Wireless Control Panel

**Code Outputs:** Wet/Dry Loop 1 (Alarm; Alarm Restore); Freeze Loop 2 (Alarm; Alarm Restore); Tamper; Tamper Restore; Supervisory; Low Battery

**Transmitter Frequency:** 345.00 MHz (crystal controlled)

**Modulation:** ASK-OOK

**Security Control Panel Compatibility:** Luna Products and 2GIG compatible control panels

**Unique ID Codes:** 99,999 different code permutations

**Supervisory Interval:** 60 minutes

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**Wet/Dry Sensitivity (Loop 1):** After three to five (3 to 5) seconds of water detection, the Flood/Freeze Sensor will send an alarm transmission to the control panel. When the presence of liquid is no longer detected by the flood probe for three to-five (3 to 5) seconds, the Flood/Freeze Detector will send a restore (dry condition) signal. Detects a minimum of 1/64 inch (0.4mm) of water.

**Freeze Detection (Loop 2):** When the ambient temperature falls below 41° F (5° C) for three to four (3 to 4) minutes, the Flood/Freeze Sensor will send an alarm transmission to the control panel. When the ambient temperature rises above 45° F (7° C) for three to four (3 to 4) minutes, the Flood/Freeze Detector will send a restore signal.

**Sensor Dimensions (H x W x D):** 2.27" x 2.27" x 2.27" (5.77 cm x 5.77 cm x 5.77 cm)

**Weight (including battery):** 1.1 oz (31.18 g)

**Operating Temperature:** 32° - 120° F (0° - 49° C)

**Relative Humidity:** 5-90% Non-Condensing

**Waterproof Rating:** IPX7

**Battery (installed):** One (1) CHAO CHUANG CR2450 Lithium battery, or equivalent CR2450 Lithium battery

**Housing Material:** PC/ABS Plastic, UL 94HB, Silicone Rubber

**Color:** White

**Battery Life:** Five (5) Years

**Warranty:** Two (2) Years

**Certification:** FCC

### 3. Regulatory

#### FCC Notice

**FCC ID:** 2ATK4LPFF02345

This device complies with Part 15 of the FCC's 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.

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 installed 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.

This product complies with FCC radiation exposure limits for an uncontrolled environment.


**CAUTION:** Any changed or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### 4. Additional Information, Warnings and Notices

**IMPORTANT:** Always dispose and/or recycle used batteries in accordance with the hazardous waste recovery and recycling regulations for your location. Your city, state, or country may also require you to comply with additional handling, recycling, and disposal requirements. Batteries must not be recharged, disassembled, or disposed of in fire. Keep away from small children. If batteries are swallowed, promptly see a doctor.

**WARNING!** The polarity of the battery must be observed. Improper handling of batteries may result in heat generation, explosion, or fire, which may lead to personal injury. Replace with the same or equivalent battery type as recommended by the manufacturer.

California Only: Perchlorate material special handling may apply. For information, visit: <https://dtsc.ca.gov/perchlorate/>

 **WARNING:** This product can expose you to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### Wireless Product Notice

Wireless communications hardware provides reliable communication; however, there are some limitations which must be observed.

- The transmitters are required to comply with all applicable wireless rules and regulations. As such, they have limited transmitter power and limited range.
- Wireless signals may be blocked by radio signals that occur on or near the wireless operating frequencies.
- Wireless signals may be blocked by large objects (couches, china cabinets, refrigerators, washer/dryer, mirrors, etc.), multiple walls, different types of residential and light commercial construction materials.

## **5. Warranty**

### **LIMITED WARRANTY**

This Luna Products LLC product is warranted against defects in material and workmanship for two (2) years. This warranty extends only to wholesale customers who buy direct from Luna Products LLC or through Luna Products LLC's normal distribution channels. Luna Products LLC does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of Luna Products LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties for functionality, are valid only until the warranty expires. This Luna Products LLC Warranty is in lieu of all other warranties expressed or implied.