

# 1112 WIRELESS WATER AND TEMPERATURE DETECTOR

## Installation Guide

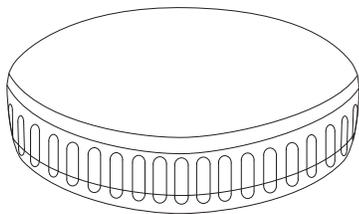


Figure 1: 1112 Transmitter

### DESCRIPTION

The 1112 Wireless Water and Temperature Detector is designed to monitor and protect areas from temperature fluctuations and water leaks.

The low-profile form factor transmitter includes built-in water probes and fits under most consumer household appliances. The 1112 has an internal temperature sensor that detects water leaks or cold and hot temperature ranges.

The transmitter includes a water-resistant gasket inside the top housing with metal contacts on the bottom housing for water sensing.

The transmitter can be programmed with up to three zones for temperature sensing, water detection, or both.

### What is Included?

- One 1112 Transmitter
- Two 3 V CR2450 Coin Cell batteries



## 1 PROGRAM THE PANEL

The 1112 can be programmed with up to three zones. Refer to the panel programming guide as needed. After completing each of the following steps, press **CMD** to advance to the next prompt.

1. At a keypad, enter **6653** (PROG) to access the Programmer Menu.
2. At **ZONE INFORMATION**, enter the wireless zone number. Program 1112 zones sequentially. For example, program the first zone as 71 and the next zone as 72.
3. At **\*UNUSED\***, enter the zone name.
4. At **ZONE TYPE**, press any select key or area and select **SV** (Supervisory) as the zone type.
5. At the **NEXT ZN?** prompt, select **NO**.
6. When **WIRELESS?** displays, select **YES**.
7. At **SERIAL#**, enter the eight-digit device serial number.
8. At **CONTACT**, enter the appropriate contact number. Refer to Table 1.
9. At **SUPRVSN TIME**, enter a supervision time. Default is **240**.
10. At the **NEXT ZN?** prompt, select **YES** if you are finished programming the zone. Select **NO** if you would like to access additional programming options.

To enable encryption, complete the steps below:

1. Go to **SYSTEM OPTIONS**.
2. At **1100 ENCRYPTION**, select **ALL** to only add encrypted wireless devices to the system. Select **BOTH** to allow both encrypted and non-encrypted wireless devices to be programmed.
3. The default passphrase is displayed at the **ENTER PASSPHRASE** prompt. Press **CMD** to keep the default.
4. Press any select key or area to change the passphrase and enter an 8-character hexadecimal string (0-9, A-F).
5. To save panel programming, go to **STOP** and press **CMD**.

## 2 REMOVE THE BATTERY ISOLATION TAB

To activate the pre-installed batteries, complete the following steps:

1. Twist the top housing counterclockwise until it separates from the bottom housing.
2. On the 1112 PCB, remove the two battery isolation pull tabs. When removed, the transmitter activates and may be programmed into the system. See Figure 2.

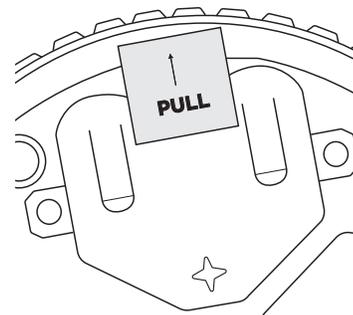


Figure 2: Battery Isolation Tab

# 3 SELECT A LOCATION

The 1112 provides a survey LED capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed. Refer to Figure 3.

 **Note:** It is recommended to place the 1112 a distance of 8 feet or more from the wireless receiver. Place the 1112 with the pads facing down.

To perform the survey LED test, complete the following steps:

1. With the cover removed, hold the transmitter in the exact desired location.
  2. Press the survey LED button to send data to the panel and determine if communication is confirmed or faulty.
- ✓ **Confirmed:** If communication is confirmed, for each press or release of the survey LED button, the LED blinks immediately on and immediately off. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.
  - ✗ **Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession. Relocate the transmitter or receiver until the LED confirms clear communication.

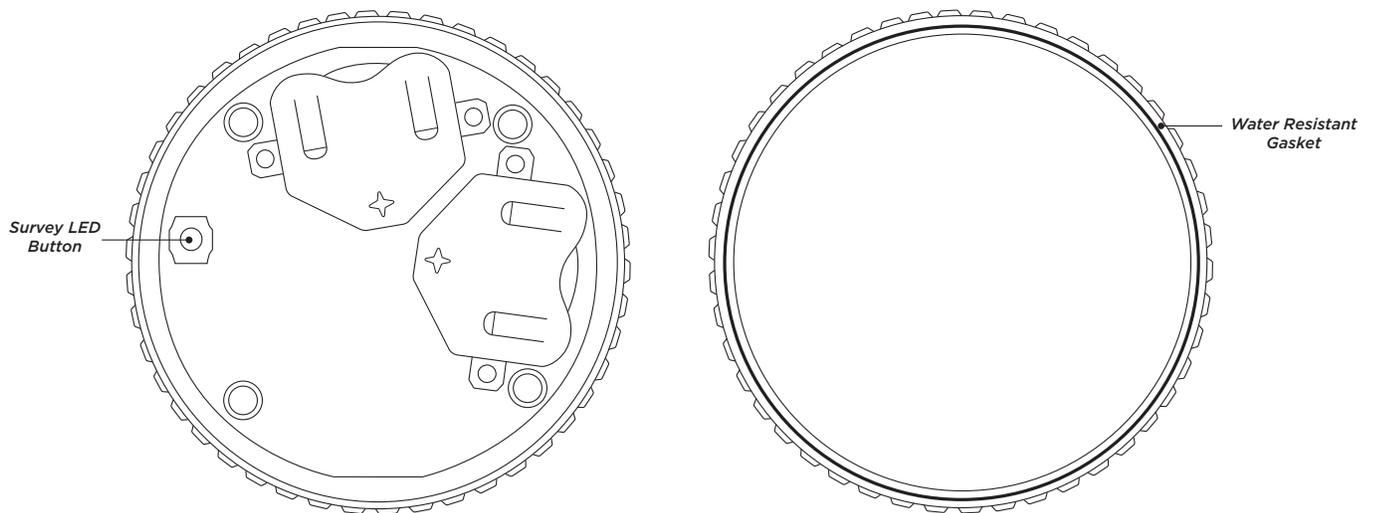


Figure 3: 1112 PCB and Housing

# 4 TEST THE TRANSMITTER

To close the 1112 lid, align the top and bottom housings, then twist the top clockwise onto the bottom until both housings fit securely into place.

After the transmitter has been installed, test to confirm that it is communicating reliably with the panel. Complete the following steps to perform a Wireless Check-in Test from a keypad that is connected to the panel:

At the keypad, enter **8144** (WALK) and select **WLS**. If the transmitter fails to check in at the keypad, check for sources of interference such as metal objects and electronic equipment.

When the test is initiated, the panel automatically tests the communication between itself and each wireless zone. Wireless zones should not be manually tripped during this test. Manually tripping zones during this test could lead to a false failure.

## ADDITIONAL INFORMATION

### Operation

The 1112 operates in temperatures between 32°F and 120°F with a relative non-condensing humidity of 85%. Refer to Table 1 for 1112 operations.

OPERATION	CONTACT	ALARM OCCURS WHEN	ZONE RESTORES WHEN
Cold	1	Temperature drops below 45°F for > 10 minutes	Temperature rises above 48°F for > 4 minutes
Hot	2	Temperature rises above 95°F for > 10 minutes	Temperature drops below 92°F for > 4 minutes
Flood	4	Water is detected for > 1 minute	Water is not detected for > 1 minute

**Table 1: 1112 Operation**

### Supervision Time

When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

### Replace the Batteries

1. Twist the top housing counterclockwise until it separates from the bottom housing.
2. Remove the old batteries, observe polarity, and place the new batteries in the holder.
3. Align the top and bottom housings, then twist the top clockwise onto the bottom until both housings fit securely into place.

### Sensor Reset to Clear LOBAT

1. Once the battery is replaced, a sensor reset is required at the keypad to clear the **LOBAT** message.
2. On an LCD keypad, press and hold 2 for two seconds. On a graphic touchscreen keypad, press **RESET**. Enter your user code, if required. The keypad displays **SENSORS OFF** followed by **SENSORS ON**.

## FCC INFORMATION

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 **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 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

## INDUSTRY CANADA INFORMATION

This device complies with Industry Canada Licence-exempt RSS standards. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

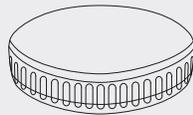
This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:*

1. *l'appareil ne doit pas produire de brouillage, et*
2. *l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

*L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.*

## 1112 WIRELESS WATER AND TEMPERATURE DETECTOR



### Specifications

Battery	
Life Expectancy	3 years (2x CR2450)
Type	3.0 V lithium CR123A
Frequency Range	905-924 MHz
Dimensions (Case)	2.8" round x .5" H
Housing Material	Flame retardant ABS

### Ordering Information

1112	Wireless Temperature and Water Sensor
CR2450/50	COIN CELL BATT 3V, 1139, 50PK

### Compatibility

1100X, 1100D  
Firmware Version 104 or higher  
1100XH, 1100DH, 1100DI  
Firmware Version 105 or higher  
XTL Series Control Panels  
XT30/XT50 Control Panels  
Firmware Version 101 or higher  
XT75 Control Panels  
XR Series Control Panels

### Patents

U. S. Patent No. 7,239,236

### Certifications

FCC Part 15 Registration ID CCKPC0260  
Industry Canada Registration ID 5251A-PC0260



**Note:** The 1112 is rated for indoor use only.



Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.

LT-2993 25125

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