# 1115 WIRELESS TEMPERATURE SENSOR AND FLOOD DETECTOR

*Installation Guide*

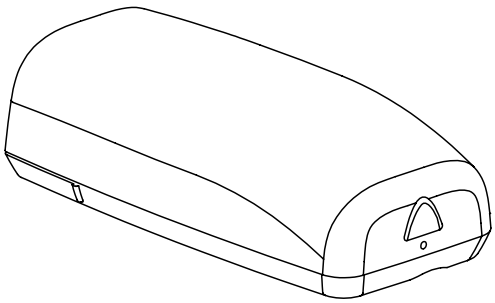

**Figure 1: 1115 Wireless Temperature Sensor and Flood Detector**

## DESCRIPTION

The 1115 Wireless Temperature Sensor and Flood Detector is designed to be used in a variety of applications. The 1115 has an internal temperature sensor that can be set to detect cold, hot, or warm temperature ranges.

When combined with the remote T280R temperature probe, the 1115 can be set to monitor refrigerated or freezing temperatures.

The 1115 can also be paired with the remote 470PB water sensor and used in situations where flood detection is necessary.

Depending on a customer's needs, the 1115 can be programmed with up to four zones and serve as a temperature sensor, flood detector, or both.

### Compatibility

All DMP 1100 Series Wireless Receivers and burglary panels. See the last page for compatibility details.

### What is Included?

- One 1115 PCB mounted in a two-part housing
- One 3V lithium CR123A battery
- One 2M EOL resistor
- Mounting screws

## 1 PROGRAM THE PANEL

The 1115 Wireless Temperature Sensor and Flood Detector can be programmed with up to four zones. When programming the 1115 in the panel, refer to the panel programming guide as needed.

**Note:** When a wireless receiver is installed, powered down and powered up, the panel is reset, or programming is complete, the supervision time is reset. If the receiver has been powered down for more than one hour, the 1115 may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life. A missing message may display on the keypad until the supervision message is sent.

1. In **ZONE INFORMATION**, enter the **ZONE** number and press **CMD**.
   **Note:** Zones must be entered sequentially. For example, if you begin by programming zone 80, you would need to program zone 81 as the next contact.
2. Enter the **ZONE NAME** and press **CMD**.
3. Select **SV** (Supervisory) as the **Zone Type** and press **CMD**.
4. At the **NEXT ZONE** prompt, select **NO**. If you see the **WIRELESS ZONE** prompt, select **YES**.
5. Enter the eight-digit **SERIAL NUMBER** and press **CMD**.
6. Enter the **CONTACT** number being used.
   **Note:** Contacts can be entered in any order. Refer to Table 1 to select the correct contact.
7. Enter the **SUPRVSN TIME** and press **CMD**.
8. At the **NEXT ZONE** prompt, select **YES** and continue to program up to three more zones.

## 2 INSTALL THE BATTERIES

After the transmitter has been programmed into the panel, install the batteries. Use only 3.0V lithium batteries, DMP Model CR123A, or the equivalent battery from a local retail outlet. Keep in mind, when setting up a wireless system, program zones and connect the receiver before installing batteries in the transmitters.

1. Remove the cover by pushing the button on the end of the cover and gently pulling upwards.
2. Observing polarity, place the battery in the holder and press into place.

# 3 SELECT A LOCATION

The 1115 provides a survey capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed. This allows you to easily determine the best location for the 1115. Be sure to choose a location on a flat wall or single-gang box away from large metal objects.

1. Hold the 1115 in the exact desired location.
2. Press the tamper switch to send data to the receiver and determine if communication is confirmed or faulty. See Figure 2 for tamper switch and LED locations.

   **Confirmed:** If communication is confirmed, the survey LED turns on when data is sent to the receiver and off when acknowledgement is received.

   **Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession.
3. Relocate the 1115 or receiver until the LED confirms clear communication. Proper communication between the 1115 and receiver is verified when for each press or release of the tamper switch, the LED blinks immediately on and immediately off.

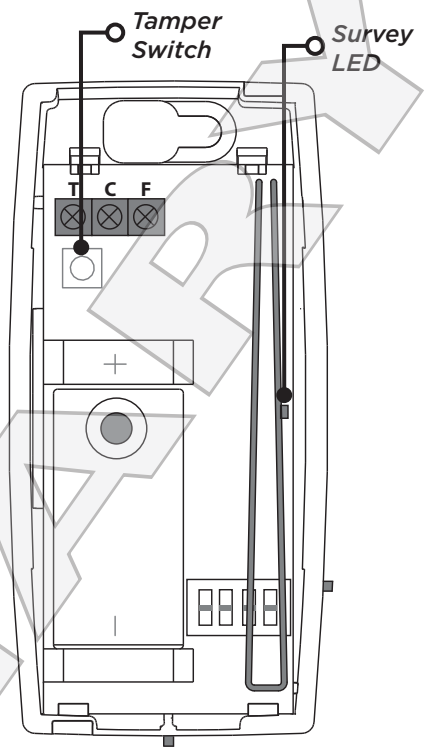


**Figure 2: Tamper Switch and Survey LED**

# 4 SET THE DIP SWITCHES

The 1115 has four DIP switches (labeled 1 through 4) located on the PCB. Cold and flood settings can be turned on or off. Hot/warm and freeze/refrigerate are either-or settings. Refer to Table 1 for DIP switch setting options and operations:

| OPERATION | DIP SWITCH POSITION | CONTACT | ALARM OCCURS WHEN: | ZONE RESTORES WHEN: | SENSOR |
|---|---|---|---|---|---|
| **Cold** | 1 = ON | 1 | Temperature drops below 45ºF for >10 minutes | Temperature rises above 48ºF for > 4 minutes | Internal |
| **Hot** | 2 = OFF | 2 | Temperature rises above 95ºF for > 10 minutes | Temperature drops below 92ºF for > 4 minutes | Internal |
| **Warm** | 2 = ON | 2 | Temperature rises above 75ºF for > 10 minutes | Temperature drops below 72ºF for > 4 minutes | Internal |
| **Freezer** | 3 = OFF | 3 | Temperature rises above 10°F for > 30 minutes | Temperature drops below 7°F for > 4 minutes | External (T280R) |
| **Refrigerator** | 3 = ON | 3 | Temperature rises above 42°F for > 30 minutes | Temperature drops below 39°F for > 4 minutes | External (T280R) |
| **Flood** | 4 = ON | 4 | Probe tips are in contact with water for > 3 minutes | Probe tips have not been in water for > 3 minutes | External (470PB) |

**Table 1: DIP Switch Settings and Operation**

# 5 WIRE THE SENSOR PROBES *(Optional)*

If freezer or refrigerator sensing functionality is required, connect a T280R temperature sensor probe. If flood sensing functionality is required, connect a 470PB water sensor probe. When connecting a remote probe to the terminal block, DMP recommends using 18 or 22-gauge unshielded wire. **Do not** use twisted pair or shielded wire.

### Connect the 470PB Water Sensor Probe

To use the 470PB, place the probe inside the area and run 18 or 22-gauge unshielded wire to the 1115. Follow these steps to connect the wire to the 1115 terminals:

1. Connect a wire from the top of one of the sensor's probes to the F terminal on the 1115 PCB by running it through the wiring opening in the housing. See Figures 3 and 5.
2. Connect a wire from the top of the other probe to the C terminal on the 1115 PCB by running it through the wire opening in the housing.
3. Connect a 2M EOL resistor (included with the 1115) between the two probes.

### Connect the T280R Temperature Sensor Probe

To use the T280R, place the probe inside the refrigerator or freezer environment and run 18 or 22-gauge unshielded wire to the 1115. Follow these steps to connect the wire to the 1115 terminals:

1. Connect the grey wire to the T terminal on the 1115 PCB by running it through the wire opening in the housing. See Figures 4 and 5.
2. Connect the black wire to the C terminal on the 1115 PCB by running it through the wire opening in the housing.

**SENSOR PROBES**

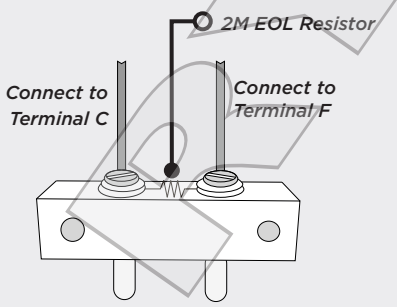


**Figure 3: 470PB Water Sensor Probe**

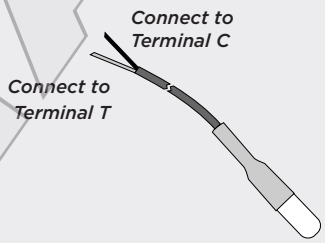


**Figure 4: T280R Temperature Sensor Probe**

# 6 MOUNT THE 1115

It is recommended the sensor be mounted on a flat wall away from large metal objects. Do not mount the 1115 inside of freezers or walk-in refrigerators. In those situations, use the optional remote T280R temperature probe.

1. Hold the transmitter base on the wall and place one screw into the mounting hole location shown in Figure 5 and secure the housing to the surface.

   **Note:** You can place an additional screw in the optional mounting hole if needed.

2. Snap the transmitter housing cover back on the base.

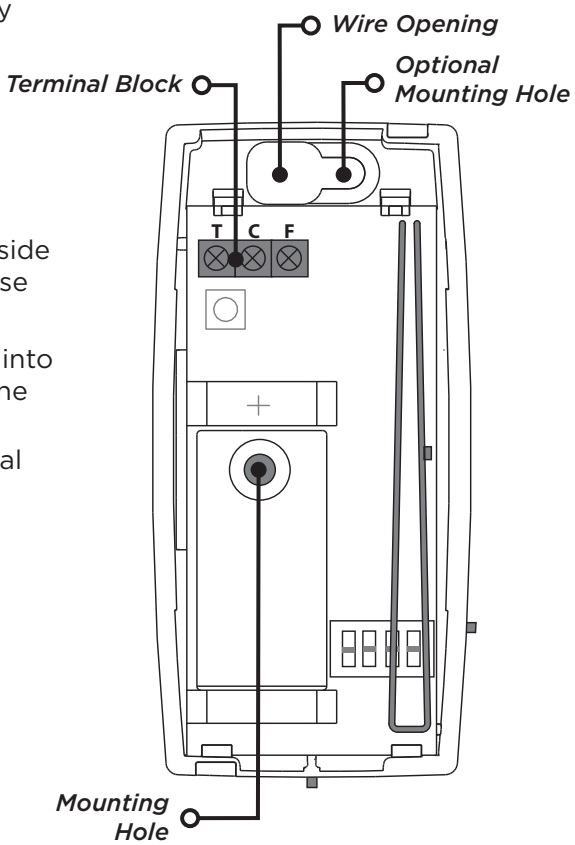


**Figure 5: Mounting Holes and Terminal Block**

# REPLACE THE BATTERY

1. Remove the cover by pushing the button on the end of the cover and gently pulling upwards.
2. Remove the old battery and dispose of it properly.
3. Observing polarity, place the new battery in the holder and press into place.
4. Snap the transmitter housing cover back on the base.

**Caution:** Properly dispose of used batteries. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate. Risk of fire, explosion, and burns.

## Sensor Reset to Clear LOBAT

When the battery needs to be replaced, a **LOBAT** message will display on the keypad. Once the battery is replaced, a sensor reset is required at the system keypad to clear the **LOBAT** message.

1. On a Thinline keypad, press and hold "2" for two seconds. On a touchscreen keypad press RESET.
2. Enter your user code if required.
3. 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:

- 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.

## Industry Canada Information

This device complies with Industry Canada Licence-exempt RSS standard(s). 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.

*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.*

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.

*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.*

### Specifications

| | |
|---|---|
| Battery | |
| Life Expectancy | 3 Years (normal operation) |
| Type | 3.0V Lithium CR123A |
| Frequency Range | 905-924 MHz |
| Dimensions | 3.3" L x 1.6" W x 1.2" H |
| Color | White |
| Housing Material | Flame retardant ABS |

### Accessories

| | |
|---|---|
| 470PB | Water Sensor Probe |
| T280R | Temperature Sensor Probe |

### Replacements

- CR123A — 3.0V Lithium Battery

### Certifications

- FCC Part 15 Registration ID CCKPC0192 (pending)
- Industry Canada Registration ID 5251A-PC0192 (pending)

### Compatibility

- 1100X Wireless Receiver version 104 or higher
- 1100XH Wireless Receiver version 105 or higher
- 1100D Wireless Receiver version 104 or higher
- 1100DI Wireless Receiver Version 105 or higher
- 1100DH Wireless Receiver Version 105 or higher
- XT50 Series panels with integrated wireless receiver version 101 or higher
- XTL Series panels with integrated wireless receiver version 104 or higher
- XTLplus Series Panels

### Patents

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

*Designed, engineered, and manufactured in Springfield, Missouri*

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