

# 1115 WIRELESS TEMPERATURE SENSOR AND FLOOD DETECTOR

## Installation Guide

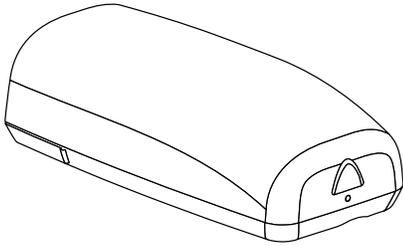


Figure 1: 1115 Transmitter

### DESCRIPTION

The 1115 Wireless Temperature Sensor and Flood Detector is designed to protect areas from temperature fluctuations and flooding.

The transmitter has an internal temperature sensor that detects cold, hot, or warm temperature ranges. When combined with the remote T280R temperature probe, the transmitter can be set to monitor temperatures in refrigerators and freezers.

The transmitter can also be paired with the remote 470LS water sensor probe to be used for flood detection.

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

### What is Included?

- One 1115 Transmitter
- One 3 V lithium CR123 battery
- One 2M Ohm EOL resistor
- Hardware pack



## 1 PROGRAM THE PANEL

The 1115 can be programmed with up to four 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. 1115 zones must be programmed 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 contact number.

 **Note:** Refer to Table 1 to select the correct contact. For the tamper feature to be enabled, contact 1 must be programmed as a zone in the panel.

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.
11. To save panel programming, go to **STOP** and press **CMD**.

## 2 INSTALL THE BATTERY

Use only 3.0 V lithium batteries, DMP Model CR123, 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.

Push the button on the end of the transmitter and separate the two halves. Observing polarity, place the battery in the holder and press it into place. Refer to Figure 2 during installation.

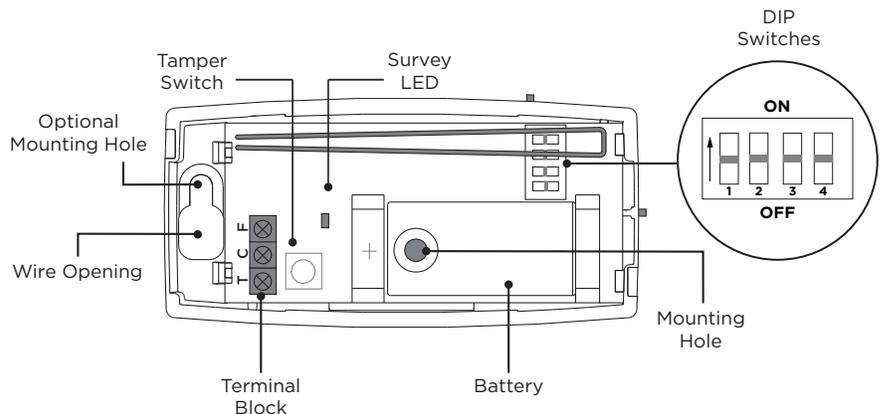


Figure 2: Transmitter Components

# 3 SELECT A LOCATION

The 1115 provides a Survey LED capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed.

1. With the cover removed, hold the transmitter in the exact desired location.
2. Press the tamper switch 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 tamper switch, 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.

# 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 Figure 2 and 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 45 °F for > 10 minutes	Temperature rises above 48 °F for > 4 minutes	Internal
Hot	2 = OFF	2	Temperature rises above 95 °F for > 10 minutes	Temperature drops below 92 °F for > 4 minutes	Internal
Warm	2 = ON	2	Temperature rises above 75 °F for > 10 minutes	Temperature drops below 72 °F 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/470LS)

Table 1: DIP Switch Settings and Operation

# 5 WIRE THE SENSOR PROBES (OPTIONAL)

Refer to Figure 3 and Figure 4 when wiring sensor probes. When connecting a remote probe to the terminal block, DMP recommends using 18 or 22 AWG unshielded wire. Do not use twisted pair or shielded wire. Use no more than 150 feet of 22-gauge wire or no more than 200 feet of 18-gauge wire.

## Connect the 470LS Water Sensor

1. Place the sensor inside the detection area.
2. Connect the red wire of the sensor to the F Terminal.
3. Connect the black wire of the sensor to the C Terminal.

## Connect the 470PB Water Sensor Probe

1. Place the probe inside the detection area and run wire to the transmitter.
2. Connect a wire to one of the probes, run it through the wire opening in the transmitter housing, and connect it to the F terminal.
3. Connect a wire to the other probe, run it through the wire opening in the transmitter housing, and connect it to the C terminal.
4. Install the included 2M Ω EOL resistor across the two 470PB water sensor probe terminals.

## Connect the T280R Temperature Sensor Probe

1. Place the probe in a temperature sensitive environment and run wire to the transmitter.
2. Thread the white wire from the probe through the wire opening in the transmitter housing and connect it to the T terminal.
3. Thread the black wire from the probe through the wire opening in the transmitter housing and connect it to the C terminal.



**Note:** The 470LS and T280R have built-in EOL resistors. Do not install additional EOL resistors.

## SENSOR PROBES

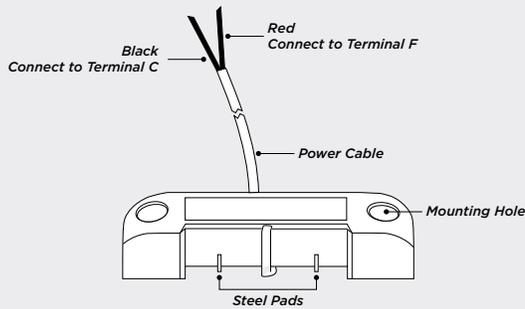


Figure 3: 470LS Water Sensor

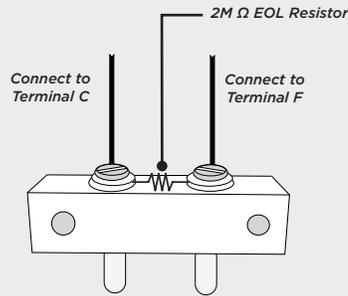


Figure 4: 470PB Water Sensor Probe

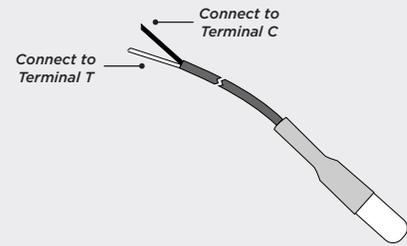


Figure 5: T280R Temp Sensor Probe

## 6 MOUNT THE TRANSMITTER

DMP recommends mounting the transmitter on a flat wall away from large metal objects. Do not mount the 1115 inside of freezers or walk-in refrigerators. When mounting the sensor, refer to Figure 2.

1. With the cover removed, take out the battery.
2. Insert the included #4 screw into the mounting hole and secure the transmitter to the surface. If necessary, insert and secure an additional screw in the optional mounting hole.
3. Replace the battery and snap the transmitter cover back onto the base.

## 7 TEST THE TRANSMITTER

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, ensure that it is wired properly and check for sources of interference such as metal objects and electronic equipment.

When this 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

### *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, tampered, 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 Battery*

1. Push the button on the end of the transmitter and separate the two halves.
2. Remove the old battery, observe polarity, and place the new battery in the holder.
3. Snap the cover back on the transmitter.

### *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.

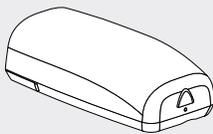
This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General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

## 1115 WIRELESS TEMPERATURE SENSOR AND FLOOD DETECTOR



### Specifications

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

### Ordering Information

1115-W	1115, white
1115-W/470LS	1115 with 470LS Water Sensor
1115-W/T280R	1115 with T280R Temp Sensor Probe

### Accessories

470LS	Water Sensor
T280R	Temperature Sensor Probe

### 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 CCKPC0191  
Industry Canada Registration ID 5251A-PC0191



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

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