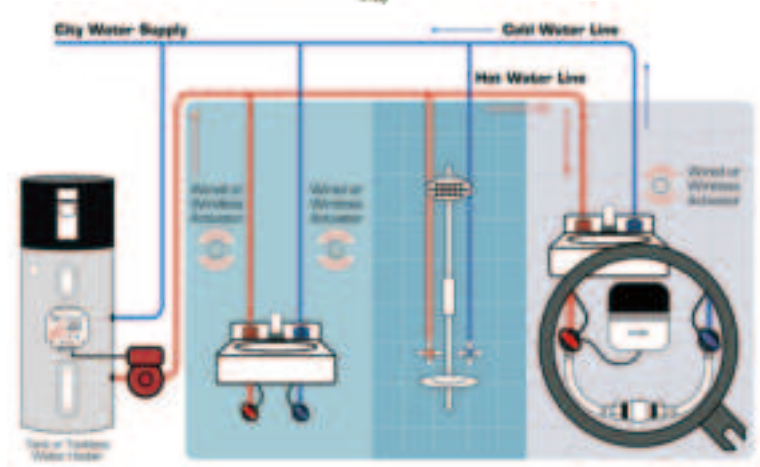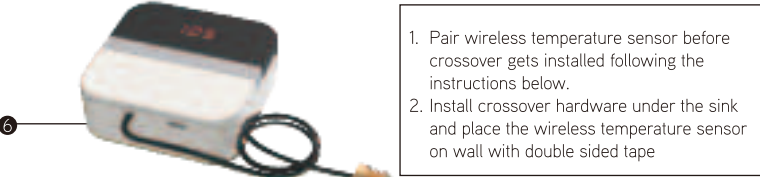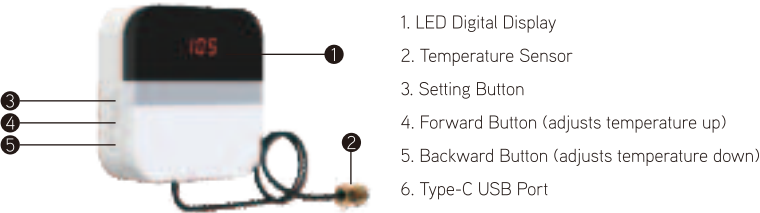## Wireless Temperature Sensor

The wireless temperature sensor is designed to monitor water temperature and communicate with the system's controller. It features a digital display, adjustable settings, and multiple signal types to ensure efficient operation of the water pump.



1. LED Digital Display
2. Temperature Sensor
3. Setting Button
4. Forward Button (adjusts temperature up)
5. Backward Button (adjusts temperature down)
6. Type-C USB Port



1. Pair wireless temperature sensor before crossover gets installed following the instructions below.
2. Install crossover hardware under the sink and place the wireless temperature sensor on wall with double sided tape



City Water Supply     Cold Water Line

Hot Water Line

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## Features:

- **Digital Display:** Shows real-time temperature and signal types.
- **Temperature Detection Frequency:** Every 3 seconds.
- **Adjustable Lockout Temperature Range:** 70°F to 130°F (default 105°F).
- **Adjustable Delta Range:** Temperature change every 3 seconds can be set between 2°F and 10°F (default delta: 6°F). Display format is "d" followed by a 2-digit number.
- **Signal Types Displayed:**
    "L" = Low Water Temperature
    "H" = High Water Temperature
    "OD" = Over Delta Temperature

## Operational Behavior:

- When the water temperature reaches the lockout temperature, the sensor sends a "high water temperature" signal ("H") to the controller, stopping the pump and turning the LED indicator on solid. The controller blinks rapidly for 2 seconds upon receiving any signal.
- If the temperature change exceeds the delta within 3 seconds, an "over delta" signal ("OD") is sent, stopping the pump and turning the LED indicator on solid.
- When the temperature drops below the lockout temperature minus the delta (e.g., with a 105°F lockout and a 5°F delta, the threshold is 100°F), a "low water temperature" signal ("L") is sent, turning off the LED on the controller.

## Power Options & Low Power Alert:

- 3 AA alkaline batteries or Type-C USB port with DC 5V power supply.
- Makes "beep" low power alert when voltage is lower than 3V.

## Range:

- Wireless sensor to controller: up to 660 feet in open air.
- Wireless sensor to signal repeater: up to 450 feet in open air.

## Function Settings:

- **Setting Lockout Temperature:**
    1. Press and hold the "Setting button" for 3 seconds; the LED display will flash the current lockout temperature.
    2. Use the "Forward" or "Backward" button to adjust the temperature. Holding the buttons will change the value faster.
    3. Press the "Setting button" again to confirm and exit.
- **Checking Current Temperature:**
    Short press the "Setting button" to display the real-time temperature for 10 seconds.

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- **Pairing and Manual Activation:**
    Used for pairing the wireless temperature sensor with the controller. Short press the "Setting button" to display the real-time temperature, then press again to show "L" (low water temperature signal). After the controller receives the signal, pairing is complete.
- **Delta Setting:**
    1. Press and hold the "Backward button" for 3 seconds to display the current delta.
    2. Use the "Forward" or "Backward" button to adjust.
    3. Press the "Setting button" to confirm and exit.

### FCC WARNING

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.

Any changes or modifications 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

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