SD-WTD07

DECT Water Detector Installation Guide

Introduction

Protect your home from expensive leaks and Waters by installing a Water Detector near water, heaters, drain pans, and underneath sinks. The Water Sensor is small, easy-to-use, and fits almost anywhere. Sit the sensor directly on the ground and it will notify you if it detects the presence of water. The water sensor has a built-in buzzer to make audible alerts when alarms are triggered. With two types of sensing probes, the sensor can be deployed on the ground or mounted on the wall.

Specification

Radio Frequency	1.9GHz DECT
Battery Type	CR123A
Operating Temperature	0° C to 40° C (32°F - 104°F) at 10% - 80% RH Non-condensing
Storage Temperature	-10° C to 60° C (14°F - 140°F) at 0% - 90% RH Non-condensing
Dimension	57 mm x 57 mm x 22 mm
Material of Adhesive	3M2204

Pairing Sensor

Initiate connecting the device to the base station using the instructions provided with it

1. Remove the top cover of the device. (Figure 1)
2. Remove the isolation tab of CR123A battery. (Figure 2)
3. The LED indicator will be blinking while attempting to pair with the gateway or base station. (Figure 3)
4. If network is not found after 90 seconds, the sensor will go into sleep mode. To wake the sensor again, you need to press the pairing button (Figure 3) for 5 seconds and release the button to trigger a paring process, and then sensor will repeat steps from 3 to 4.
5. Follow the directions presented by the gateway or base station to complete pairing. If the sensor needs to be tripped in order to complete pairing a water detection event can be simulated by bringing the probes into contact with moisture.
6. Close top cover of the device. (Figure 4)

Figure 1

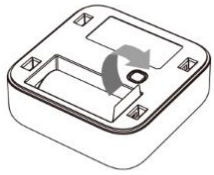

Figure 2

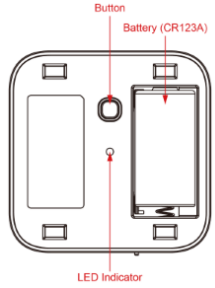

Figure 3

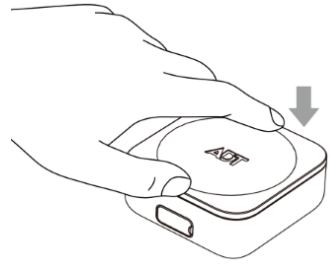

Figure 4

Mounting Water Detector

The Water Detector can be deployed on the ground or mounted on the wall.

Ground Deployment

When deployed on the ground, the Water Detector detects water through the probes protruding from its back cover (Figure 5). Put the Water Sensor on the ground with the back cover facing downward.. Possible Water Sensor areas include: in the water heater tray, in the sump pump, at the toilet base, or at ground-level of the basement.

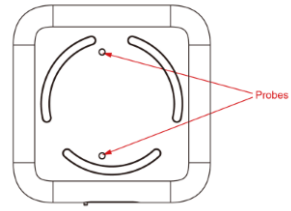

Figure 5

Wall Mounting

For wall mounting, the Water Detector must be connected to the external extension probe.

1. To remove the waterproof plug that covers the USB interface. (Figure 6)
2. Connect the extension water probe into the device terminal.(Figure 7)
3. The two sensor probes at the end of the cable are close to the base of the area to be monitored (about 1-2mm away), or the probe housing is laying flat on the base of the area to be monitored.
4. In order for the sensor to work, BOTH probes must have contact with water. Make sure both probe tips are positioned correctly. Use the included adhesive pad to secure the probe housing to a clean, dry surface. (Figure 8)

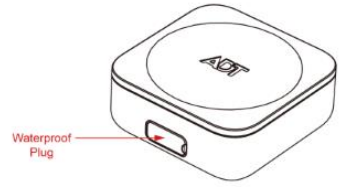

Figure 6

Double tape installation procedure
To obtain optimum adhesion, the bonding surfaces must be well unified, clean and dry. After application, the bond strength will increase as the adhesive flows onto the surface. At room temperature, the ultimate strength will be achieved 100% after 24 hours.

5. Once Water probes are in position, use the included adhesive pad to secure the main unit to a clean, dry surface. (Figure 9)
6. Complete. (Figure 10)

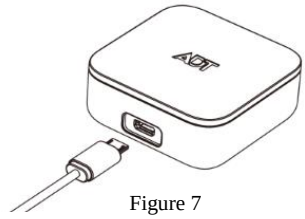

Figure 7

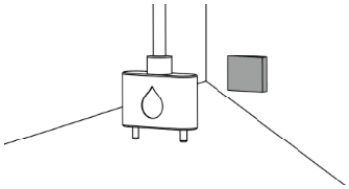

Figure 8

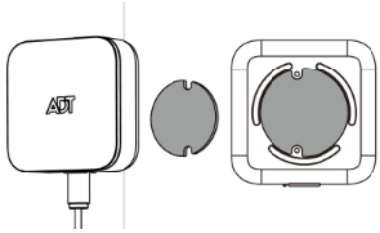

Figure 9

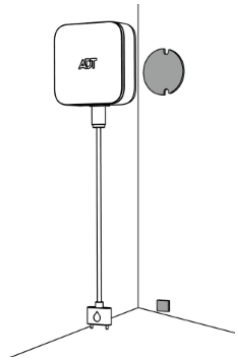

Figure 10

Operation

1. The White LED will stay off during the normal operation.
2. When the probes come into contact with water, Water Detector will transmit an alarm signal to the Control Panel, and raise alarm with its built in buzzer.
3. Whenever the water level subsides, the Water Sensor will transmit an alarm restore signal and stop the alarm.
4. After the water has subsided and the probes are no longer in contact with water, the Water Detector will send a restore signal to the Control Panel to indicate the water condition has been restored. The Water Detector then returns to Normal Operation Mode.

Reboot the Water Detector

If Water Detector needs to reset to factory defaulted (for example, to prepare it for joining with a home controller or security system).

Reset to Factory Defaults

1. Open Water Detector top cover.
2. Press the pairing button for 10 seconds then release the button.
4. The White LED will be blinking for 3 seconds when the device is reset successfully.
5. The sensor will now be reset to factory defaults and will initiate pairing mode.

Note: Replace Battery with CR123A only. Use of another battery may negatively impact the performance of the product.

Caution

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

Regulatory Approvals

FCC Statement (US)
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.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designated to provide reasonable protections against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency 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 of 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.

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

FCC WARNING: This equipment may generate or use radiofrequency energy. Changes or modifications to the equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC RF Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.