

EN1751 Water Detector Installation Instructions

1 Overview

The EN1751 water detector provides affordable early warning against damage caused by leaking appliances and standing water when used with the Honeywell® FP280 probe, sold separately. The EN1751 water detector sends a primary alarm (alarm 1) to indicate the presence of water, and a secondary and tertiary alarm (alarm 2 and alarm 3) to indicate other fault conditions described in section 4, "Operation" on page 2.

1.1 Inovonics Contact Information



If you have any problems with this procedure, contact Inovonics Wireless technical services:

- E-mail: support@inovonics.com
- Phone: (800) 782-2709

1.2 EN1751 Components

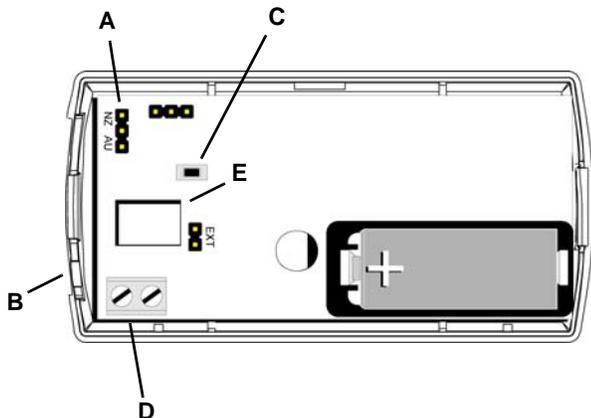


Figure 1 EN1751 components

- A** Frequency band selection pins **B** Top wiring cutout
C Reset button **D** Probe terminal block
E Back wiring cutout

1.3 What's In The Carton

The following are included with individual units only; they are not included in bulk sales.

- Three wall mount screws.
- Three wall mount anchors.
- Two selection jumpers.
- One 3.0V lithium battery.

2 Installation and Startup

2.1 Installation Notes

- These products are designed to be installed and maintained by professional security technicians.
- Products are intended for indoor use.
- Manually test all products weekly.

2.2 Install the Battery

1. Pry the top lip of the mounting bracket up, and lift the bracket off of the transmitter.
2. Use your thumb to depress the housing release tab on the bottom of the transmitter; separate the housing.
3. Install the new battery.
4. Press the reset button to initialize the transmitter.

2.3 Mount the Honeywell FP280 Probe

The Inovonics EN1751 water detector is used with the Honeywell FP280 probe. To mount the Honeywell FP280 probe:

5. Trim the FP280 probe wiring to the desired length.
6. Route the FP280 probe wiring through either the rectangular back wiring cutouts on the back of the housing and bracket, or through the rounded top wiring cutout at the top of the housing.

Note: If you want to use the cutout at the top of the housing, you will need to trim the bracket.

7. Use a small screwdriver to attach the FP280 probe wiring leads to the power terminal block.
8. Use double-sided tape to attach the FP280 probe to the bottom of the water heater drip pan. If no drip pan is present, secure the FP280 on the floor where water is likely to collect.
9. Press the reset button to complete configuration.

2.4 Select the Frequency Band

EchoStream products are able to use a range of radio frequencies, and must be configured for your geographic area. This product ships with a default frequency range of 902-928 MHz for use in North America. If you are using the product in North America, skip to section 2.5, "Register the EN1751 Water Detector"; if you are using the product in Australia or New Zealand, you will need to configure the transmitter.

10. Place a selection jumper on the appropriate frequency band selection pins.
 - Place the jumper on the right two pins, marked NZ, to set the frequency range to 921-928 MHz for New Zealand.
 - Place the jumper on the left two pins, marked AU, to set the frequency range to 915-928 MHz for Australia.
11. Press the reset button to complete configuration.

Caution: When pressing the reset button, make sure you don't also touch the frequency band selection pins. Touching the frequency band selection pins while pressing the reset button can inadvertently set the single input universal transmitter to the wrong frequency band.

2.5 Register the EN1751 Water Detector

The EN1751 water detector must be registered with the system in order to be monitored and supervised. Refer to the receiver installation instructions for details on registering a transmitter.

12. When prompted by the receiver to reset transmitter, press the reset button.
13. Replace the cover.

2.6 Mount the EN1751 Water Detector

14. Attach the mounting bracket to the desired location, using the included screws or double-sided tape.

Note: There are two mounting holes for standard installation. An optional third mounting hole is located under the battery. Use the third mounting hole to secure the housing to the bracket.

15. Hook the bottom of the EN1751 water detector into the bracket's bottom catch, and press the EN1751 into the bracket so that the bracket's top lip snaps into place.

16. Use staples or tape to secure the wiring between the EN1751 water detector and the FP280 probe.
17. Test the EN1751 and FP280 per section 3, "Testing the EN1751 Water Detector".

3 Testing the EN1751 Water Detector

The EN1751 water detector should be tested weekly and after registration to ensure operation.

To test the EN1751 water detector:

1. Inspect to ensure both the EN1751 and FP280 are securely mounted and the wiring is still secured.
2. Submerge the FP280 probe in 1/4" of non-distilled water and ensure an appropriate response.

When testing has completed, you will need to reset the EN1751. To reset the EN1751:

1. Remove the EN1751 water detector from the mounting bracket.
2. Use your thumb to depress the housing release tab on the bottom of the transmitter; separate the housing.
3. Press the reset button.
4. Replace the housing and return the transmitter to the mounting bracket.

4 Operation

The primary alarm, alarm 1, is sent when the EN1751 detects water; the other two alarms, alarm 2 and alarm 3, as well as the tamper message, are sent in the following cases:

Condition	Message
Ambient temperature at or above 140°F.	The alarm 2 message will be sent.
Ambient temperature at or below -4°F.	The alarm 3 message will be sent.
Honeywell FP280 probe disconnected from Inovonics EN1751 water detector	The tamper message will be sent.

Note: If an alarm 1 message is sent and no water is present, inspect the wiring at the probe terminal block to ensure that there is no short.

Note: The EN1751 water detector cannot reliably detect frozen water.

5 Specifications

Dimensions: EN1751: 3.5" x 1.7" x 0.9"; FP280: 1.5" x 1.0" x 0.375".

Battery type (BAT604): Panasonic CR123A or equivalent.

Battery life: 3 to 5 years.

Operating temperature: -4° to 140°F.

Humidity: 0 to 90%, non-condensing.

Note: Specifications and data are subject to change without notice.

6 Television and Radio Interference

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.

7 FCC Part 15 and Industry Canada Compliance

This device complies with part 15 of the FCC Rules and Industry Canada license-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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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

8 US Patent Numbers

- 7,154,866.
- 7,554,932.
- 7,746,804.
- Other patents pending.