

EN1752 Temperature Detector

Installation Instructions

1 Overview

The Inovonics EN1752 temperature detector easily adds temperature monitoring into an Inovonics system with no third-party hardware integration. The EN1752 is configured with high and low set points of 80°F and 40°F. Users can customize the EN1752 to monitor temperature in a variety of applications including server rooms, storage areas, refrigerators, freezers and pipes for pre-freeze warnings.

1.1 Inovonics Contact Information

For product and installation videos visit us at www.inovonics.com/videos or use the QR code below.



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

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

1.2 Temperature Detector Internal Components

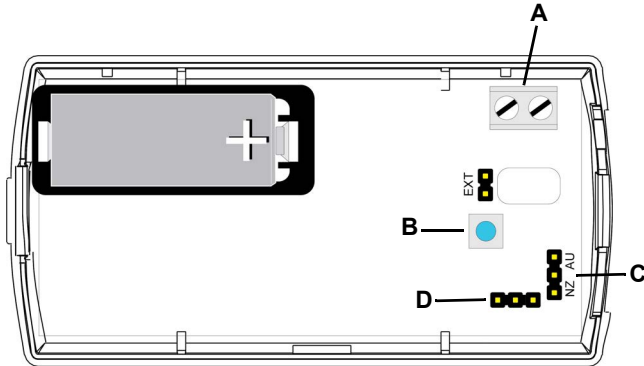


Figure 1 Temperature detector internal components

- A** Terminal block **B** Reset button
C Frequency band selection pins **D** Programming header (pin one furthest left)

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.

Note: When disposing of this device or depleted batteries, please do so in accordance with federal, state and local regulations.

2.3 Mount the Honeywell T280R Wireless Temperature Sensor Probe

For applications requiring an external probe, the EN1752 temperature detector is compatible with the Honeywell T280R wireless temperature sensor probe. If you are using the EN1752 temperature detector for ambient temperature monitoring, skip to 2.4, "Select the Frequency Band"; if you are using the Honeywell T280R wireless temperature sensor probe:

1. Trim the T280R wireless temperature sensor probe wiring to the desired length.

Note: The T280R wireless temperature sensor probe wiring is 15 feet, untrimmed. This is the maximum length that can be used with this product. Do not add extension wire.

2. Route the T280R wireless temperature sensor 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.

3. Use a small screwdriver to attach the T280R wireless temperature sensor probe wiring leads to the power terminal block.
4. Refer to the T280R wireless temperature sensor probe instructions for additional details.
5. 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 is shipped from Inovonics set for your geographic area.

- The jumper will be set on the two pins marked NZ to set the frequency range to 921-928 MHz for New Zealand.
- The jumper will be set on the two pins marked AU to set the frequency range to 915-928 MHz for Australia.
- The jumper will be removed to set the frequency band to 902-928 MHz for North America.

1. Ensure the frequency band is set for your geographic area.
2. If the frequency band is not set for your geographic area, place a selection jumper on the appropriate frequency band selection pins to select Australia or New Zealand, or remove it for North America.
3. If you have changed the frequency band, 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 Program the EN1752 Temperature Detector

The EN1752 temperature detector ships configured for ambient temperature monitoring without the use of an external probe, with a 80°F high and 40°F low temperature threshold, a 60 minute check-in time frequency, and a one minute temperature measurement interval. If you are using these default settings, skip to 2.6, "Register the EN1752 Temperature Detector"; if you need to modify these settings:

Note: Please contact your Inovonics account representative if you require ten or more transmitters with the same modified settings.

Note: To program the EN1752 temperature detector you will need an ACC17XX programming cable, available from Inovonics. This will allow you to change the transmission interval, temperature measurement interval and/or the temperature unit parameters.

4. Use a PC running Windows 10 or higher to download the EN1752 programmer app from the EN1752 product page at inovonics.com.
5. Open the EN1752 temperature detector programmer app.
6. Connect the programming header end of the ACC17XX programming cable to the EN1752 temperature detector programming header pins.

- To ensure a proper connection, line up the arrow on programming header end of the ACC17XX programming cable with programming header pin 1, shown in figure 1.
7. Connect the USB end of the ACC17XX programming cable to the PC.
 - Once connected, the input fields will reflect the factory defaults. Temperature will reflect the current temperature per the EN1752 temperature detector's internal thermistor.
 8. If you will be using an external temperature sensor probe, select Probe in the programming app.
 - Once probe is selected, the temperature will reflect the temperature of the probe.
 9. Edit temperature thresholds and reporting intervals as desired.
 10. Click Update Transmitter to program the new settings to the EN1752 temperature detector.
 11. Disconnect the ACC17XX programming cable.
 12. Press the reset button on the transmitter.
 13. Repeat steps 6 to 12 as needed for additional EN1752 temperature detectors.

2.6 Register the EN1752 Temperature Detector

The EN1752 temperature 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.

14. When prompted by the receiver to reset transmitter, press the reset button.
15. Replace the cover.

2.7 Mount the EN1752 Temperature Detector

16. 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.

17. Hook the bottom of the EN1752 temperature detector into the bracket's bottom catch, and press the EN1752 into the bracket so that the bracket's top lip snaps into place.

3 Operation

Alarm 1 is sent when the EN1752 temperature detector reaches the high temperature threshold; alarm 2 is sent when it reaches the low temperature threshold. The tamper alarm is sent when the ambient transmitter temperature is above 140°F or below -4°F.

4 Specifications

Dimensions: 3.5" x 1.7" x 0.9".

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.

Regulatory compliance: FCC; RoHs compliant; Industry Canada; RCM.

Note: The transmitter output power level is the same for North America, Australia and New Zealand.

Note: Inovonics supports recycling and reuse whenever possible. Please recycle these parts using a certified electronics recycler.

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

5 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.

6 FCC Part 15 and Innovation, Science and Economic Development Canada (ISED) Compliance

This device complies with part 15 of the FCC Rules, and ISED 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 that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique 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.

7 Radiation Exposure Limits

7.1 FCC

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm during normal operation and must not be co-located or operating in conjunction with any other antenna or transmitter.

7.2 ISED

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme avec ISED RSS-102 des limites d'exposition aux rayonnements définies pour un environnement non contrôlé. Cet émetteur doit être installé à au moins 20 cm de toute personne et ne doit pas être colocalisé ou fonctionner en association avec une autre antenne ou émetteur.

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

Note: Inovonics commercializes products utilizing open source third party software. For additional information, please visit: <https://www.inovonics.com/support/embedded-third-party-licenses/>.