

# Wireless Rate-of-Rise Heat Sensor

## RF-ROR-135-345-NN

## Installation Instructions

### Introduction

The RF-ROR-135-345 wireless heat detector uses electronic processing to detect temperature Rate-of-Rise and fixed heat set point conditions plus a learn mode wireless transmitter in one unit. The micro-processor trips the transmitter when the temperature at the detector location reaches a fixed temperature of 135°F (57°C) or senses a rate of rise at 12°F to 15°F (6.7 to 8.3°C).



Figure 1

Model: RF-ROR-135-345 Wireless 135°F (57°C) Rate-of-Rise Heat Sensor, 345 MHz Wireless, Compatible with Honeywell® and 2GIG® Wireless Receivers.

### Installation

Use the following installation guidelines:

- Heat detectors should be installed to provide property protection. Reliance should not be placed on heat sensors for life safety. Where life safety is involved, smoke sensors must also be installed.
- The detectors allow for normal temperature fluctuations; however, ceiling temperatures should not exceed 100°F (38°C)
- Mount the detector in a central location of the area to be protected, either on the ceiling or on a wall.
- If mounting on a ceiling, the detector must be at least 4 in. (10 cm) away from any walls.
- If mounting on a wall, the top of the detector must be within 4 to 6 in. (10 to 15 cm) of the ceiling.
- The UL maximum spacing allowance of the detector is 50 x 50 ft. (15 x 15 m). Refer to the NFPA Standard 72 for application requirements.
- Do not mount the detector close to devices that change temperature rapidly, such as ovens, heat vents, furnaces, or boilers.

### Enrolling

The RF-ROR-135-345 is compatible with Honeywell® and 2GIG® wireless receivers. These panels must learn (program) the detector ID codes in order to respond to detector signals. For complete programming instructions refer to the specific control panel instruction guides.

Note: The RFID label is located on the battery bucket.

To add the sensor to panel memory:

1. Place the panel in program mode.
2. Enter the zone number to be programmed.
3. Enter the zone type when prompted. Program as a Fire zone type [9].

4. When prompted, enter Input Type [03] (3 on some panels) Supervised RF Transmitter
5. Remove pull tab from sensor battery

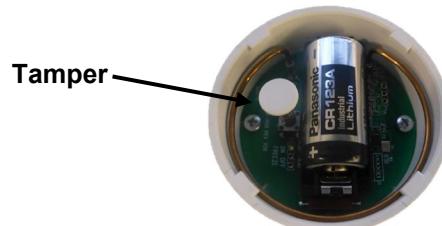


Figure 2: Tamper

### Mounting the Detector

1. Locate the base mounting holes and mount the base to the wall or ceiling with the appropriate hardware (Figure 3)
2. Attach the detector to the mounting base

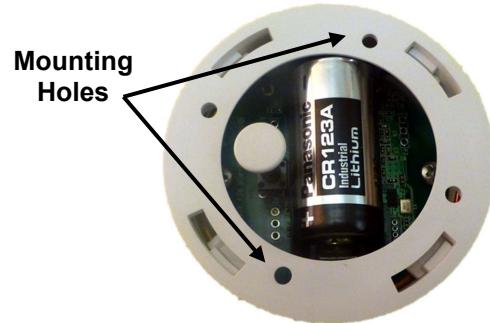


Figure 3: Mounting Holes

### Testing

1. Before permanently securing the detector to the wall or ceiling, test the detector from the installation location using one of the following methods.
2. Place the panel in sensor test mode.
3. Plug in a portable hair dryer.
4. Hold the hair dryer about 12 to 18 in. away from the sensor, aiming it at the side of the sensor.
5. Listen for the appropriate number of beeps from interior sirens and speakers (refer to the specific panel
6. Listen for the appropriate number of beeps from interior sirens and speakers

### Magnet Test

Note: Notify central station before any live testing to avoid fire response. The magnet test allows the sensor to send an actual alarm signal to the control panel, if a magnet is held against the housing for 15 seconds.



Figure 4: Magnet Mark

1. With the sensor permanently mounted, place a magnet against the mark located on the sensor body. (Figure 4)
2. Hold the magnet in place for about 15 seconds
3. The control panel should respond by sounding the fire alarm
4. Disarm control panel to silence alarm

#### Replacing the Batteries

Battery life depends on how often the detector transmits signals, but is more dependent on the temperature of the installation environment. When the battery voltage gets low, the detector transmits a low battery signal to the panel. The panel then activates trouble beeps to notify the customer that the detector battery must be replaced. Pressing the status button identifies the sensor with the low battery.

Replace the battery immediately when this condition occurs, using the following battery: Panasonic CR123A 3V

#### Battery Disposal

The batteries used in this sensor are lithium batteries and are not reusable. Be sure to properly dispose of used lithium batteries according to your local hazardous waste disposal laws.

#### Specifications

Rate of Rise rating	12° to 15°F (6.7° to 8.3C)
Operating temperature	135°F (57°C): 32 - 100°F (0 - 37°C)
UL max. Ambient ceiling	100°F (37.8°C)
Storage Temperature	-30 to 167°F (-34 to 75°C)
Relative Humidity	0 to 95% noncondensing
Maximum UL Spacing	50ft (15.2m) x 50ft (15.2m)
Frequency	345 MHz (crystal-controlled)
Expected Battery Life	10 years
Standby Current	Less than 0.9 µA
Supervision Interval	62-68 minutes
Enclosure Dimensions	Diameter: 2.29" (58.25mm) Height: 1.28" (32.4mm)
Regulatory	
UL 521 Heat Detectors for Fire Protective Signaling Systems UL 985 Household Fire Warning System Units CAN/ULC-S530 Heat Actuated Fire Detectors for Fire Alarm Systems CSFM Category 7270 FCC: 15.109 Class B, 15.231 Industry Canada: ICES-003, RSS-210	

#### FCC / IC Statement

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.

Changes or modifications not expressly approved by UTC Fire and Security could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

FCC: 2ABBZ-RF-ROR-345  
IC: 11817A-RFROR345

This Class B digital apparatus complies with Canadian ICES-3B.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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