Honeywell

5809 Wireless Rate-of-Rise Heat Detector – Installation Instructions

General Information

The Honeywell 5809 Rate-of-Rise Heat Detector is a wireless device used with alarm systems that support Honeywell's 5800 series devices.

The 5809 combines a rate-of-rise sensor and a fixed temperature sensor in one device. The rate-of-rise sensor detects a rapid rise in temperature and signals an alarm if the rise is 15°F (8°C) or more per minute. Fires typically cause a rapid rise in temperature in the surrounding area. The fixed temperature sensor will signal an alarm when the ambient temperature rises above 135°F (57°C).

IMPORTANT: The 5809 will be permanently damaged if stored, shipped, or installed in environments where the temperature exceeds 100°F (38°C). If the metal disc is detached, the detector has exceeded 135°F (57°C) and must be replaced.

Heat detectors should be used for property protection. Reliance should not be placed solely on heat detectors for life safety. When life safety is involved, smoke detectors MUST also be used.

Detectors MUST NOT be painted.

Notes:

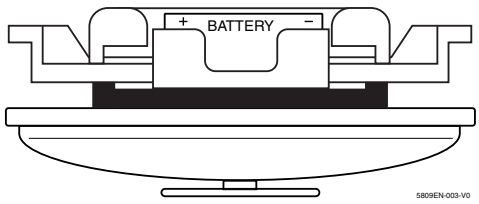
- It is not recommended to install at a site where the ambient temperature exceeds 100°F (38°C).
- **UL:** Unit is for dry, indoor use only.
- If the fixed temperature sensor activates, the detector must be replaced.
- When the battery voltage drops below a threshold, a low battery signal is sent to the control panel.
- The 5809 includes a tamper switch. If removed from its mounting base, a trouble signal is sent to the control panel.
- Detectors should never be relocated without the advice or assistance of the alarm service company.
- Replace the battery when the system reports a low battery condition.

SPECIFICATIONS

Battery	3-volt lithium; Duracell DL123, DL123A, or Panasonic CR123A.
Operating Temp.	40°F to 135°F (4°C to 57°C)
Rate of Rise Temp.	15°F (8°C) increase per minute. **Note:** The rate-of-rise sensor does not operate above 100°F (38°C).
Fixed Temp.	135°F (57°C)
Maximum Spacing	50ft x 50ft **UL:** 30ft x 30ft Refer to NFPA 72 for application requirements.
Dimensions	4.9" diameter, 2.7" deep

1 Install the Battery

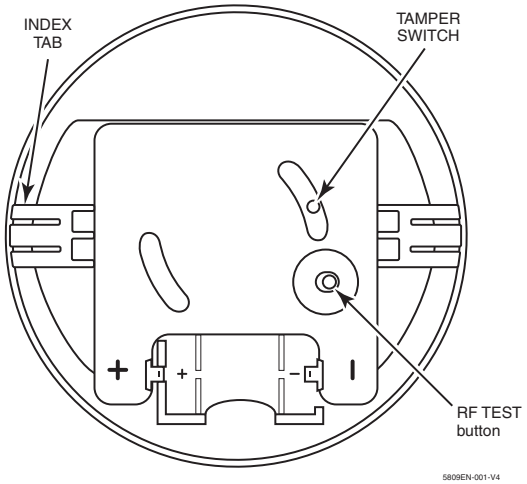
1. If the 5809 is already mounted, remove the detector assembly by twisting counter-clockwise and withdraw it from the mounting base. DO NOT touch the metal disc.
2. Remove the old battery and wait 30 seconds.
3. Install or replace battery with a Duracell DL123, DL123A, or Panasonic CR123A. **Observe polarity!**



2 Program the Detector

NOTE: The detector's serial number is located inside the detector. This number must be enrolled in the control panel. Refer to the control panel's installation guide for details.

1. Remove the detector assembly by twisting counter-clockwise and withdraw it from the mounting base. DO NOT touch the metal disc.
2. Install the battery (if not already installed). **Observe polarity!**
3. Enter the control panel's programming mode. When programming this device, program the following:
   Input Type = 3 (Supervised RF)
   Loop number = 1
4. To enable the control panel to capture the detector's serial number, when prompted force the detector to transmit by momentarily depressing the RF TEST button. Alternately, you can manually enter the detector's serial number.
5. Test the detector after enrolling into the system. Refer to the Testing the Detector topic.



3 Select a Location and Mount the Detector

SELECT A LOCATION

- Refer to the "Specifications" topic for maximum spacing requirements.
- Avoid mounting the detector near heat generating devices (e.g., ovens, heat vents, furnaces, boilers).
- Wall Mounting – Mount the detector 4" to 6" from the ceiling.
- Ceiling Mounting – Mount the detector at least 4" from any wall. Ensure the ceiling temperature will not exceed 100°F.
- Verify a good RF transmission path from the selected mounting location before mounting. Test the detector first before mounting.

Testing The Detector:

This test should be performed to verify a good RF transmission path before mounting the detector at the intended location, and again after the installation is complete.

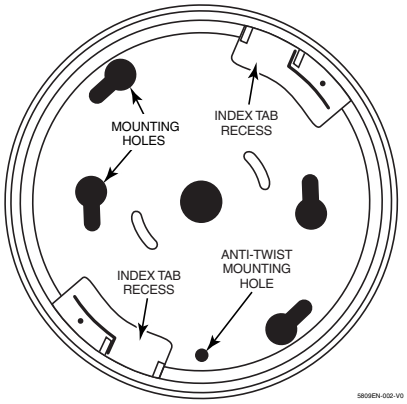
CAUTION: The rate-of-rise heat sensor is intended for a one time use. If the metal disc on the detector detaches, the detector must be replaced.

1. Activate the control panel's test mode.
2. Press and release the RF TEST button on the sensor's PC board.
3. Verify the system's keypads beep and the detector's serial number is displayed.
4. Exit the control panel's test mode.

MOUNT THE DETECTOR

The detector's mounting base has a variety of holes to accommodate securing it to; a wall, ceiling, 4" junction box, or a 3–1/4" octagon box.

1. Use at least two mounting holes.
2. When securing to wallboard, in addition to the mounting holes, ensure to also use a screw in the Anti-Twist mounting hole. This will prevent the base plate from coming loose when untwisting the sensor.



3. Secure the sensor to the mounting base by aligning the sensor's index tabs to the index tab recesses on the mounting base. While pushing in, turn the sensor clockwise until it locks. DO NOT touch the metal disc.

TO THE INSTALLER

The rate-of-rise sensor may be subject to reduced sensitivity over time. Annual testing of the rate-of-rise operation is recommended. Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system.

The installer should assume the responsibility of developing and offering a regular maintenance program to the user as well as acquainting the user with the proper operation and limitations of the alarm system and its components parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to ensure the system's proper operation at all times.

FEDERAL COMMUNICATIONS COMMISSION & INDUSTRY CANADA STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

FCC / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and RSS-210 of IC. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS-210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d' interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

For Limitations of the entire alarm system, refer to the control panel's installation guide.

SUPPORT & WARRANTY

For the latest documentation and online support information, please go to:
https://mywebtech.honeywell.com/

For the latest warranty information, please go to:
www.honeywell.com/security/hsc/resources/wa.

MyWebTech Warranty

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