INSTALLATION AND SETUP GUIDE

GENERAL INFORMATION
The ADEMCO 5809F is a Wireless Fixed Temperature Heat Detector used with Honeywell ADEMCO alarm systems and First Alert Professional alarm systems that support 5800 series devices.
The 5809F contains a built-in fixed temperature sensor that signals an alarm if the ambient temperature rises above 135°F (57°C).

WARNING: The 5809F’s fixed temperature sensor will be permanently damaged if the 5809F is installed, stored or shipped in environments where temperature exceeds 120°F.

NOTES:
• The heat sensor is intended for one-time use. If the sensor activates (the round disk on top of the detector detaches), the 5809F must be replaced.
• An installation site where the ambient temperature exceeds 100°F for extended periods is not recommended.
• The 5809F has a gray spot marked on the center of the detector head, which distinguishes it from the 5809. The 5809 also senses temperature rate-of-rise; the 5809F senses fixed temperature only.

A 3-volt lithium battery powers the 5809F. If the battery voltage gets too low, the 5809F sends a low battery signal to the control panel.
The 5809F also includes a tamper switch, which causes a trouble signal to be sent to the control if the unit is removed from the mounting base.
A built-in RF Test button, located on the detector assembly, is used when programming the unit’s serial number in the control panel and when testing the unit.

INSTALLING THE BATTERY
Important Notes:
• Use 3-volt lithium battery: Duracell DL 123A or Panasonic/Sanyo/Varta CR123A.
• Observe polarity.
• When replacing the battery, wait at least 30 seconds after removing the old battery, before installing the new one.

Remove the detector assembly from its mounting base and install a 3-volt lithium battery as shown below.

PROGRAMMING THE UNIT
The transmitter’s serial number must be enrolled in the control panel before usage in the system. Refer to the Installation and Setup Guide for the control with which this device is to be used for programming procedures to enroll transmitters. Before programming, do the following:
1. Remove the detector assembly from its mounting base by twisting the detector assembly counter-clockwise and withdraw from the base.
2. Install the battery (if not already installed). Observe polarity!
3. Enter the control’s programming mode and follow the control’s programming instructions. When programming this transmitter at the control, note the following:
• Input Type = 3 (Supervised RF)
• Loop number = 1
Transmit from the detector when prompted (momentarily depress the RF Test button shown below). You can also manually enter the detector’s serial number.
4. Test the detector after enrolling into the system. Refer to TESTING THE DETECTOR, later in this document.

MOUNTING THE DETECTOR
You can mount the 5809F on a wall or ceiling within the protection area:
• Wall Mounting: Mount the detector 4” - 6” from the ceiling.
• Ceiling Mounting: Mount the detector at least 4” from any wall. Make sure the normal ceiling temperature will not exceed 100°F.
• Refer to NFPA Standard 72 for detector spacing and other requirements. Maximum spacing for UL installations is 25’ x 25’.
• Avoid mounting the detector near heat generating devices (e.g. ovens, heat vents, furnaces, boilers).

IMPORTANT:
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.

WIRELESS TRANSMISSION PATH TEST
A good RF transmission path must be established from the proposed mounting location before permanently installing the
To determine that there is good signal reception from the proposed location, perform the test procedure described in TESTING THE DETECTOR.

Once a good RF transmission path is confirmed, mount the detector as follows:

1. Surface mount the unit’s plastic base to a wall or ceiling, or mount the plastic base to either a 4” junction box or 3-1/4- octagon box.

   **NOTE:** The anti-twist mounting hole is for use when installing the device directly to wallboard to prevent the base from being twisted off when servicing the device.

2. Install the detector assembly to the base by aligning the detector assembly index tabs to the index tab recesses in the base, pushing in, and secure by turning the detector assembly clockwise.

### TESTING THE DETECTOR

This test procedure should be performed to determine a good RF transmission path and again after installation is completed.

1. Activate the control panel’s test mode.
2. Press and release the RF Test button on the PC board assembly.
3. The system’s keypads should beep and the detector’s ID should be displayed.
4. Exit the control’s test mode.

Unit is intended for dry, indoor use only.

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### MANTAINING PROPER OPERATION

To maintain the detector in proper working condition, it is important that you observe the following:

- Replace the battery when the system indicates that the 5809F has reported a low battery condition.
- Units should never be relocated without the advice or assistance of the alarm service company.

### SPECIFICATIONS

**Power:** 3V lithium battery (Duracell DL123A or Panasonic/Sanyo/Varta CR123A)

**BATTERY CAUTION:**

Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 212°F (100°C) or incinerate. Dispoce of used batteries properly. Keep away from children.

- **Operating Temperature:** 40° to 140°F (6° to 60°C)
- **Fixed Alarm Temperature:** 135°F (57°C)
- **Maximum Spacing:** 25’ x 25’ UL, 20’ x 20’ FM
  (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
- **Dimensions:** 4.4” diameter, 2.2” deep

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### FCC AND INDUSTRY CANADA STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES AND RSS210 OF INDUSTRY CANADA. 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.

THE USER SHALL NOT MAKE ANY CHANGES OR MODIFICATIONS TO THE EQUIPMENT UNLESS AUTHORIZED BY THE INSTALLATION AND SETUP GUIDE OR USER GUIDE.

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