

5808AP Photoelectronic Smoke/Heat Detector with Built-in Wireless Transmitter Installation Instructions

SPECIFICATIONS

Power Source:	Two 3-volt CR123A Lithium Batteries (included). (Replace with Duracell DL123A, Sanyo CR123A, Panasonic CR123A or ADEMCO 466.)
Height:	2.05 inches (52 mm)
Diameter:	5.0 inches (127 mm) without adapter bracket 5.5 inches (140 mm) with adapter bracket
Weight:	8.5 oz. (241 g) without batteries
Operating Ambient Temperature Range:	0° to 38° C (32° to 100° F)
Operating Humidity Range:	5% to 95% Relative Humidity
Heat Sensor:	135° F Fixed Temperature Electronic Thermistors
Agency Listings:	UL 268 – Commercial and Residential Installations

Before installing detectors, please thoroughly read these installation instructions and Manual I56-407, *Guide for Proper Use of System Smoke Detectors*, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications. Copies of this manual are available from ADEMCO.

NOTICE: This manual should be left with the owner/user of this equipment.

IMPORTANT: This detector must be tested and maintained regularly following NFPA 72 requirements. The detector should be cleaned at least once a year.

GENERAL DESCRIPTION

The 5808AP photoelectronic smoke/heat detector with built-in wireless transmitter is intended for use with wireless alarm systems that support 5800 series devices. Refer to control/communicator installation instructions for compatibility. The 5808AP smoke/heat detector can be used with 5881 series (L, M, H) and 5881EH receivers for residential installations. For commercial installations, the 5881EH receiver should be used. The transmitter can send alarm, tamper, maintenance (when control panels are equipped to process maintenance signals), and battery condition messages to the system's receiver. The maintenance signal fully complies with the sensitivity test requirement specified in NFPA 72, 7-2.2. Refer to the wireless system's instructions for the maximum number of transmitters that can be supported.

The 5808AP will sound its built-in temporal horn when smoke activates the detector (also the LED also flashes rapidly), or when the air temperature reaches 135° F (the LED flashes normally, about once every 40 seconds). A message is also sent to the wireless control panel and the smoke detector's ID number is displayed at the console. The alarm message is transmitted every 4 seconds until the smoke condition has cleared and the detector has reset. After the horn stops, a RESTORE message is transmitted to the control panel and the ID number can be cleared from the panel. During normal and low battery conditions, the LED flashes approximately once every 40 seconds. The built-in Drift Compensation algorithm automatically maintains the sensitivity of the detector. Once the detector reaches its limit of compensation, it transmits a maintenance signal to the panel. In maintenance condition, the LED stops flashing.

BATTERY INSTALLATION AND REPLACEMENT

The 5808AP is powered by two 3-volt CR123A or DL123A Lithium batteries (included). The detector checks for low batteries at least every 60 minutes. If a low battery is detected, the transmitter sends a low battery message to the control panel, which beeps and displays the detector's ID. This condition will exist for a minimum of seven days, and then the detector's horn will "chirp" about every 40 seconds. The batteries should be replaced BEFORE the chirps begin. Be sure to replace BOTH batteries with fresh ones.

To replace batteries:

1. Remove the detector from its mounting plate by twisting the detector counterclockwise. Remove batteries, and dispose properly.
2. Install two new 3-volt CR123A Lithium batteries in the battery compartment. Follow the polarity diagram inside the compartment.
3. Reinstall the smoke detector onto the mounting plate by turning the detector clockwise.
4. Test the detector as described in the TESTING TRANSMITTER SIGNAL section of this manual. The LED should flash about once every 40 seconds to indicate normal operation. If the batteries are not installed correctly, the smoke detector will not operate and the batteries may be damaged. If the detector does not appear to be sending a signal during any of the tests, check for correct battery installation.

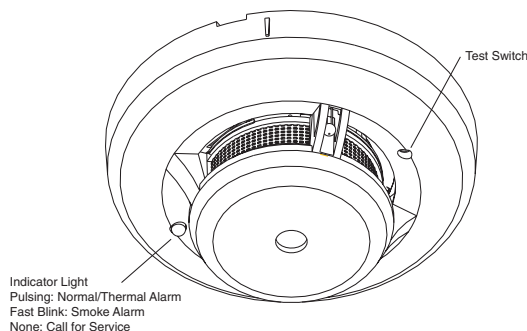


Figure 1. 5808LST Wireless Smoke/Heat Detector

PROGRAMMING

The smoke detector's ID must be enrolled in the control panel during installation of the system. The 5808AP must be enrolled on loop 1 as an input "Type 3" (supervised RF).

With the control panel in the programming mode, enter the 7 digit serial number that is on the label of the 5808AP. For confirmation, press the test switch to send a transmission to the control panel.

See the control unit's installation instructions for further details.

SMOKE DETECTOR LIMITATIONS

- **Smoke detectors will not sense a fire if the smoke does not reach the sensor or if the air temperature does not reach 135° F.** In order for a smoke detector to sense smoke, it must be installed in the immediate vicinity of the fire. In addition, smoke from fires in chimneys, in walls, on roofs, in remote parts of the building, or on another level from where the smoke detector is located, may not reach the smoke detector quickly enough for occupants to escape unharmed. **For this reason, installer shall install smoke detectors on every level, in every sleeping area, and in every bedroom of the household.**
- **Smoke detectors may not be heard.** The alarm horn in this smoke detector meets or exceeds current Underwriter's Laboratories standards. However, if the smoke detector is not located in the same room as the occupant, or if it is blocked by a closed door or normal noise, the alarm horn may not be heard. In addition, sound sleepers, or persons who are under the influence of drugs or alcohol may not hear the alarm or be able to react to it. **Therefore, locate this smoke detector, which has a sounder rated at 85 dB at 10 feet, on every level, in every sleeping area, and in every bedroom of the household.**
- **In general, detectors may not always warn you** about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson.
- Smoke detectors are not fool-proof. **Like all electronic devices, smoke detectors have limitations. No type of smoke detector can sense every kind of fire every time. In addition, smoke from slow, smoldering fires rises slowly and may not reach the smoke detector until actual flame breaks out. This type of smoke may not reach the smoke detector in time for occupants to escape unharmed.**
- **Smoke detectors are not a substitute for life or property insurance.** Though smoke detectors have been responsible for saving many lives, they are not warranted or implied to protect lives or property in the event of a fire.