

582HDS-OEM-ATT01

Heat Detector – Rate of rise and Fixed Temperature

Product Introduction

This wireless rate-of-rise and fixed-temperature Heat Detector (product) continually monitors operational status and provides a visual trouble condition if it fails an internal diagnostics. Additional diagnostic information is activated by pressing the silence/test button. This initiates a self-diagnostic routine and provides visual indication of normal status, or if service is required. The product is powered by long-life 3V Lithium batteries providing power to both the alarm and wireless transmitter.

This wireless product works in conjunction with your wireless Control Panel, providing a local indication.

About This Guide

This User Guide describes how to install, operate, and maintain this product. The User Guide is organized as you are intended to use this product, following the step-by-step instructions.

Keep this document in a handy location and refer to it when you have questions about this product and its functions and features. Reading this guide is the only way to learn how to use your product wisely and to know how to react in the event of an alarm.

1. General Information

Congratulations on purchasing your Heat Detector. This product is designed to be used with a Control Panel as part of the Fire and Life Safety signaling device. This product has two thermistors capable of detecting changes in temperature in the event of fire.

Parts List

One Heat Detector
Two CR123A lithium batteries
Mounting Plate
Mounting Screws and Anchors
User Guide

NFPA Guidelines

The required protection in NFPA 72 National Fire Alarm and Signaling Code 2013 Edition utilizes smoke alarms as the primary life safety equipment for providing a reasonable level of protection against fire. The installation of additional alarms of either smoke or heat type should result in a higher degree of protection.

NFPA 72 Chapter 29 does not require heat alarms or heat detectors as part of the basic protection scheme; it is recommended that the householder consider the use and placement of additional heat detectors. For example, additional heat alarms or heat detectors should be considered but not limited to, the following areas: kitchen, dining room, attic (finished or unfinished), furnace room, utility room, basement, and integral or attached garage.

NFPA 72, 29.8.4.3

Heat detectors or alarms shall be mounted on the ceiling at least 4 in. (100 mm) from a wall or on a wall with the top of the detector or alarm not less than 4 in. (100 mm), nor more than 12 in. (300 mm), below the ceiling. *Exception: When the mounting surface could become considerably warmer or cooler than the room, such as a poorly insulated ceiling below an unfinished attic or an exterior wall, the detectors or alarms shall be mounted on an inside wall.*

NFPA 72, Install Heat Detectors on sloped, peaked or cathedral ceilings at or within 3 ft. (0.9m) of the highest point, (measured horizontally) 29.8.4.2 states

For sloped ceilings having a riser greater than 1 ft. in 8 ft. (1 m in 8 m) horizontally, the detector or alarm shall be located within 36 in (910 mm) of the peak. The spacing of additional detectors or alarms, if any, shall be used on a horizontal distance measurement, not on a measurement along the slope of the ceiling.

NFPA 72, 17.6.3.4.2.1

A row of detectors shall first be located at or within 36 in. (910 mm) of the peak of the ceiling.

NFPA 72, 29.8.4.4

In rooms with open joists or beams, all ceiling-mounted detectors or alarms shall be located on the bottom of such joists or beams.

NFPA 72, 29.8.4.5

Detectors or alarms installed on an open-joisted ceiling shall have their smooth ceiling spacing reduced where this spacing is measured at right angles to solid joists; in the case of heat detectors or heat alarms, this spacing shall not exceed one-half of the listed spacing.

NFPA 72, 29.5.1.1 Required Detection for Single- and Multiple-Station Smoke Alarms

Approved, single-station smoke alarms shall be installed as follows:

- (1) In all sleeping rooms (applies to several occupancies including: one- and two-family dwellings; lodging or rooming houses; hotels, motels, and dormitories; apartment buildings; residential board and care facilities; and day-care homes) and guest rooms (applies in the context of hotel and dormitory occupancies)
- (2) Outside of each separate dwelling unit (applies to one- and two-family dwellings and dwelling units of apartment buildings, including condominiums) sleeping area, within 21 ft (6.4 m) of any door to a sleeping room, with the distance measured along a path of travel
- (3) On every level of a dwelling unit, including basements
- (4) On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics
- (5) In the living area(s) of a guest suite (an accommodation with two or more contiguous rooms comprising a compartment, with or without doors between such rooms, that provides living, sleeping, sanitary, and storage facilities)
- (6) In the living area(s) (any normally occupiable space in a residential occupancy, other than sleeping rooms or rooms that are intended for combination sleeping/living, bathrooms, toilet compartments, kitchens, closets, halls, storage or utility spaces, and similar areas) of a residential board and care occupancy (small facility)

2. Mounting Guideline

This product is a member of a reliable, high-quality product family using the latest technology available. Review the information in this section to ensure you get the most out of the product. The information in this User Guide is in accordance with NFPA 72.

Note A: Maximum coverage established by U.L. is based on providing equal response time as sprinkler devices spaced at 10 ft. intervals (100 sq. /ft.) on a smooth ceiling approximately 15 feet high. Higher ceilings may adversely affect response time and earlier response time may be obtained by reducing the spacing between alarms.

Note B: Maximum distance is from any wall or ceiling projection extending down more than 12 inches.

Pre-installation Considerations

Install the smoke alarm in accordance with NFPA Standard 72, Chapters 17 and 29. Depending on the application, you may need to reference other chapters of NFPA 72 or NFPA 101.

Choosing an Installation Location

When choosing an installation location, consider:

- o Use of structure and type of construction
- o Contents you want to protect and their burning characteristics
- o Human occupancy
- o Total area to be monitored
- o Ceiling height and surface condition
- o Air movement and vent locations
- o Obstructions
- o Deflections

After considering these factors, choose a location:

- o The most favorable mounting location for a Heat Detector is on the ceiling in the center of the room. At this location the alarm is closest to all areas of the room. *EXCEPTION: When the mounting surface might become considerably warmer or cooler than the room, such as a poorly insulated ceiling, below an unfinished attic or an exterior wall. In these cases the alarm should be mounted on an inside wall.*
- o In areas where the ambient temperatures normally remain between -10°F (-23°C) and 100°F (38°C).

Away from ventilation sources, near ceiling fans, or other high air flow areas that can prevent heat from reaching the Heat Detector.

The product shall be located on the ceiling no closer than 4 in.(102 mm) from the sidewall or, if on a sidewall, mount between 4 (102 mm) and 12 in. (300 mm) from the ceiling.

In rooms with sloped or peaked ceilings, place alarms 3 feet (910 mm) down or away from the highest point of the ceiling.

If mounting to suspended ceiling tile, secure the tile with the appropriate fastener to prevent tile removal.

Heat Detectors are not to be used with alarm guards unless the combination has been evaluated and found suitable for that purpose.

Note: A Heat Detector does not provide warnings for fires resulting from explosions, smoking in bed, or other furniture; ignition of flammable liquids, vapors, and gasses; and children playing with matches or lighters.

Locations to Avoid

- o Areas where normal ambient temperature exceeds products operating temperature range.
- o On the ceiling in rooms next to kitchens, where there is no transom between the kitchen and such rooms.
- o In areas with high humidity, like bathrooms/shower rooms or areas near dishwashers or washing machines. Install at least 10 feet (3 m) away from these areas if possible.
- o Near fresh-air inlets or returns or very drafty areas.
- o Near heating/air conditioning vents, fans, and fresh air intakes, which can drive heat away from the alarm.
- o In dead-air spaces at the top of peaked ceilings or in corners where walls and ceiling meet. Dead air can prevent heat from reaching a Heat Detector.
- o Within 10 feet (3 m) of fluorescent light fixtures or within 12 in (300 mm) of a light fitting.
- o Not suitable for outdoor use.



WARNING! LIMITATIONS OF HEAT DETECTORS

Wireless Heat Detectors are very reliable, but may not work under all conditions. No fire alarm provides total protection of life or property.

Heat Detectors require a source of power to work.

This Heat Detector will not operate and the alarm will not sound if batteries are dead or not installed properly.

Heat Detectors may not be heard. A sound sleeper or someone who has taken drugs or alcohol may not awaken if the alarm is installed outside a bedroom. Closed or partially closed doors and distance can block sound. This alarm is not designed for the hearing impaired.

Alarms may not always activate and provide warning early enough. Heat Detectors only activate when it has exceeded the rate of rise or fixed temperature rating. If a fire starts in a chimney, wall, roof, on the other side of closed doors, or on a different level of the property, enough heat may not reach the alarm for it to alarm.

Alarms are a significant help in reducing loss, injury and even death. However, no matter how good a detection device is, nothing works perfectly under every circumstance and we must warn you that you cannot expect an alarm to ensure that you will never suffer any damage or injury.

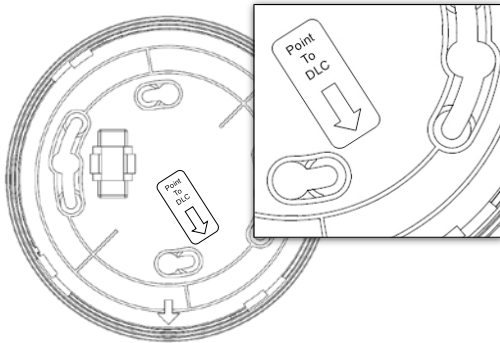
Current studies have shown alarms may not awaken all sleeping individuals. It is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound, or to those who may be incapable of safely evacuating the area unassisted.

3. Mounting the Sensor

Note: Add the product to the Control Panel before physically mounting the alarm in the desired location.

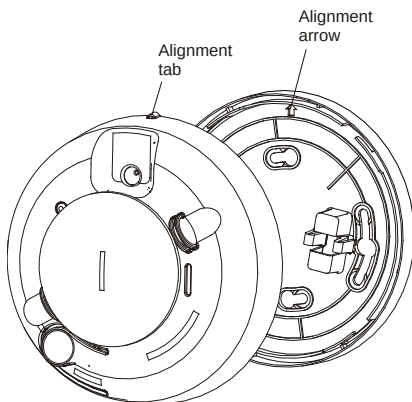
- A. Disconnect alarm-notification appliances, service-release devices, and extinguishing systems. Test communications between the control panel and alarm before permanently mounting the alarm as follows:
 - Hold the alarm where you plan to install it.
 - Press the alarm test button for 8-to-10 seconds. The alarm sends a signal to the control panel.

- At the control panel, verify the signal was received and RF signal strength is adequate. If no signal is received or the RF signal is low, relocate the alarm and retest.
- B. Using two supplied screws and anchors, mount the base with this arrow pointing towards the wireless Control Panel.



- C. Attach the alarm to the mounting base as follows:
- Line up the raised alignment tab on the lip of the alarm with the arrow on the mounting base.
 - Insert the alarm into the base and turn clockwise about 15 degrees until it snaps into place.

Note: The product cannot be attached to the mounting base if no batteries are installed.



- D. Test communications between the control panel and the alarm again:
- Press the Test button on the alarm for 8-to-10 seconds. The alarm sends a signal to the control panel.
 - Verify that the signal at the control panel was received as Acceptable, Good or Best level. See Section 6 for further details.
- E. Test the alarm, see Section 7.
- F. The control panel alarm and all auxiliary functions should be verified for a complete test of the system.

4. Basic Operations

This product is equipped with an intuitive normal mode operation.

Normal Mode Operation

- o In normal operation, the Status LED flashes once every 8 seconds.
- o In alarm mode, the Status LED is ON – Red Color.
- o In trouble or maintenance mode, the Status LED is OFF.
- o In battery replacement mode, the product turns OFF the Status LED and chirps every 45 seconds until the batteries are replaced.

Note: The modes can be viewed from the Control Panel.

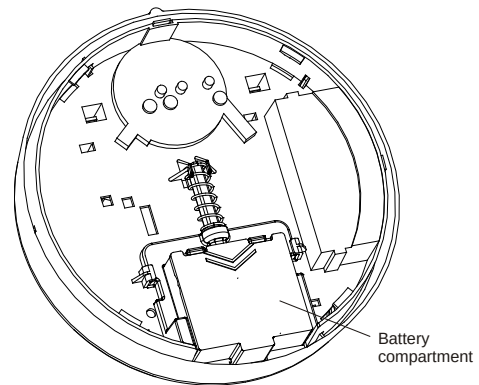
Silence the Alarm

Press the Test/Silence button to silence the sounder during an alarm. After a few minutes, the sounder and alarm resume if the alarm condition is still present.

5. Installing / Replacing Battery

This product comes with two batteries preinstalled. When you need to replace the battery, use the following procedure.

- A. Slide the battery compartment cover away from the alarm to unsnap it and lift it off.
- B. Observing proper polarity, insert two 3V lithium batteries into the alarm battery compartment and replace the battery compartment cover.
- C. Remove the red plastic dust cover from the alarm. The alarm ships with a dust cover for protection on construction sites with dusty environments.



Using a different battery can affect the detector operation detrimentally. Constant exposures to high or low humidity may reduce battery life.

Replacing Batteries

Use only 3V lithium CR123A batteries, as listed on the battery compartment cover.

- A. Remove the alarm from the mounting base (see "Mounting Base Instructions" on page 2).
- B. Slide the battery compartment cover away from the alarm to unsnap it and lift it off (see the figure on page 3).
- C. Remove and dispose of the batteries appropriately.
- D. Observe correct polarity and insert two new 3V lithium batteries into the battery compartment and replace the cover.

Note: Use only new batteries when replacing old batteries. Do not replace with batteries that were used previously.

- E. Reattach the alarm to the mounting base and test the system.

6. Adding to the Control Panel

Each product is programmed with a unique ID when manufactured. The unique ID is enrolled into the control panel at the time of installation, allowing the detector to communicate with that specific control panel.

- A. Set the Digital Life system in Discovery mode using the Digital Life installation tools.
- B. Press and hold the alarm learn button for 2 seconds.
 - o The learn LED will slowly blink while the device is being discovered by the system. This process may take as long as 60 seconds.
 - o If the device is successfully discovered, the learn LED will turn solid for 15 seconds.
 - o If the device is not discovered, the learn LED will blink fast for 15 seconds.
- C. If desired, edit the sensor's name and/or location in the Digital Life system.
- D. If the DLC has signal strength of Low or Weak for this device, then install a repeater.

7. Testing the Product

This product may be tested during install or at any time. It is recommended the product be tested in place annually.

- A. Use a hair dryer (maintaining a distance of three inches) for 20 seconds or until an alarm is indicated.

The LED should stay on, the sounder should emit a temporal 3 pattern, and an alarm should be indicated at the control panel. Be sure to extinguish the heat source after testing!

Running the RF Communication Test

This section provides general guidelines for testing the product with the control panel. For complete testing details, refer to the specific control panel documentation.

- o Be sure the product is normal operation.
- o Using the Digital Life Direct (DLD) web tool, select the Heat Detector.
- o In the signal strength selection, click the enable button.
- o The signal strength test will run for 60 seconds.
- o Once the test has completed, the ping results will show the signal strength of all links (DLC to alarm, DLC to repeater, repeater to Heat Detector).
- o If the link to the smoke is below -90 dB, then a repeater should be installed in the link between the DLC and the Heat Detector.

8. Maintenance

This product is designed for a long service life far beyond 10-years. Even though the control panel indicates when to service this product, several annual and random/as required checks are recommended.

- Annual - Alarm Test
- Random - Visual check for LED flashing every 8 seconds
 - Sensitivity Test
 - Wireless Signal Strength

The control panel indications are Trouble, and Low Battery.

Trouble - the product has an internal fault, which requires technical service.

Low Battery - batteries are low and must be replaced to maintain proper operation.

Heat Detector Test

This product is equipped with an internal diagnostic checking function. The diagnostic indication uses LED status to provide an overall product operational status. If an unserviceable hardware fault has been detected, the LED is OFF until the product is serviced. To place the product in diagnostic mode:

- A. Momentarily press the Test button on the product for the alarm LED flashes 4 times followed by a solid LED while one round of temporal sound and a test message will be sent.
- B. If test button is still being pushed then an alarm message will be sent to the panel and device will continue the temporal sound pattern until the button is released.
- C. Followed by another temporal three sound and 20 rapid LED blinks indicating entry/start of heat sensitivity test. While waiting to see heat the LED turns off then on for 1 second up to 1 minute, if user applies heat using a hair dryer (maintaining a distance of three inches) during this minute the alarm LED turns on solid red and temporal 3 sounds twice followed by LED switches from solid red to LED off ½ second LED on ½ second for 20 seconds indicating completion of test.
- D. Check the LED status and see the table below to determine the status of the alarm and any action to take.

Status indicators

LED status and/or sound indication	Meaning	Steps to Take
Low chirp	Battery is low	Replace batteries.
LED blinking every 8 s	Alarm is operating as intended	None
LED off	Alarm is in trouble.	Check panel for specifics.

Trouble

Refer to Section 9 for troubleshooting guidance.

Cleaning

Clean the alarm cover with a dry or damp (water) cloth as needed to keep it free from dust and dirt.

Low Battery

Replace the batteries per Section 5 - Installing / Replacing Battery.

9. Troubleshooting

Detector does not power up properly or reports low battery

Be sure the battery is fully seated within the battery compartment and the polarity is correct.
Check the battery voltage (3.0 VDC nominal).

Control Panel does not respond

Use a wireless RF Sniffer to confirm that the product is sending messages for activation.
Be sure the detector is enrolled into the control panel properly.
Be sure you are using a compatible control panel.

Tamper condition does not restore

Be sure the product is installed properly onto the mounting plate and the mounting plate has a magnet.
Be sure there are no trouble indications at the detector.
Be sure you are using a compatible control panel.

If a tamper notification occurs

Be sure you are using a compatible control panel.
Be sure the control panel is in sensor test mode during sensor testing.

Alarm condition does not restore

Be sure the heat has cleared at the product.
Be sure you are using a compatible control panel.

If unit continues to be non-operable then contact customer service for further instructions.

10. Specifications

Compatible panels	DLC-100
RF Wireless Frequency	915 MHz (NA)
RF Distance – LOS	See Section 6.
Power	3.0 VDC, Two lithium batteries
Battery type	Panasonic® CR123A Duracell DL123A
Standby Current	35 µA (typically)
Battery life	5 years (typically)
Heat Detection - Fixed	135°F ± 5°F (57.2°C ± 2.8°C)
Heat Rate-of-Rise	15°F/min > 85°F (8.3°C/min > 29.44°C)
Audible alarm	85 dBA @ 10' (3M) temporal 3
Low Battery Beep	1 every 45 seconds.
Weight w/batteries	0.20 lbs. / 0.09 kg
Dimensions	5.6" x 2.4" (14.2cm x 6.1cm)
Storage temperature	-4 to 140°F (-20 to 60°C)
Operating environment	32 to 100°F (0 to 38°C)
Relative Humidity	0 to 95% non-condensing

11. Regulatory Information – pending agency approvals.

Manufacturer: Edwards, A Division of Walter Kidde Portable Equipment, Inc. (Edwards)

RoHS Directive

2011/65/EC RoHS Compliant. Hereby, Edwards declares that this product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) in more than the percentage specified by EU directive

2011/65/EC, except exemptions stated in EU directive 2011/65/EC annex.

Agency Rating

ANSI/UL521, UL539, CSFM

FCC Compliance

FCC ID: QPY-HD915FFH

IC: 8308B-HD915FFH

The device complies with part 15 of the FCC Rules as well as Industry Canada Rules and Regulations license-exempt RSS standard(s). 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.

Conformité Réglementaire

Ce dispositif est conforme à la réglementation de la IC et (Partie 15) de la FCC. Son fonctionnement est soumis à deux conditions: (1) ce dispositif ne doit pas causer d'interférences nuisibles, et (2) ce dispositif doit accepter toute interférence reçue, y compris les interférences pouvant entraîner des conditions de fonctionnement indésirables.



WARNING: Changes to Section 11 – Regulatory Information is strictly prohibited. Any changes or modification made to the product without the permission of the manufacturer could void the user's authority to use this product.

CAUTION (AS REQUIRED BY THE CALIFORNIA STATE FIRE MARSHAL)

"Early warning fire detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows. A smoke alarm installed in each separate sleeping (in the vicinity of, but outside of the bedrooms), and heat or smoke alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages."

12. Product Information

Fire Prevention and Escape

The purpose of an early warning alarm is to detect the presence of fire in its early stages and sound an alarm giving the occupant(s) time to exit the premises safely.

Avoid Fire Hazards

No detection device can protect life in all situations. Therefore, safeguards should be taken to avoid potentially dangerous situations as follows:

- o **Do not** smoke in bed.
- o **Do not** leave children home alone.
- o **Never** clean with flammable liquids such as gasoline.
- o Properly store materials. Use general good housekeeping techniques to keep your home neat and tidy. A cluttered basement, attic, or other storage area is an open invitation to fire.
- o Use combustible materials and electrical appliances carefully and only for their intended uses. Do not overload electrical outlets

- o **Do not** store explosive and/or fast burning materials in your home.
- o Even after proper precautions have been taken, fires can start. **Be prepared.**

In Case of Fire

In the event of a fire:

- o Leave immediately. Don't stop to pack or search for valuables.
- o In heavy smoke, hold your breath and stay low, crawl if necessary. The clearest air is usually near the floor.
- o If you have to go through a closed door, carefully feel the door and door knob to see if undue heat is present. If they seem cool, brace your foot against the bottom of the door with your hip against the door and one hand against the top edge. Open it slightly. If a rush of hot air is felt, slam the door quickly and latch it. Unvented fire tends to build up considerable pressure. Be sure all members of the household realize and understand this danger.
- o Use your neighbor's phone or a street fire alarm box to call the fire department. The job of extinguishing the fire should be left to trained professionals.

Be Prepared

Practice the following steps to prepare you and your family in the event of a fire:

- o Perform fire drills regularly. Use them to assure recognition of an alarm signal.
- o Draw a floor plan and show two exits from each room. It is important that children be instructed carefully, because they tend to hide in times of crisis.
- o Establish one meeting place outside the home. Insist that everyone meet there during an alarm. This will eliminate the possibility of someone re-entering the house for a missing member who is actually safe.
- o If you have children, elderly or anyone requiring additional assistance residing in your household, use window decals to help emergency personnel identify the sleeping quarters of these individuals.



WARNING

Heat Detectors CANNOT provide warnings for fires resulting from explosions, smoking in bed or other furniture, ignition of flammable liquids, vapors and gases, or children playing with matches or lighters.

Limited Warranty

AT&T Digital Life Complete Protection - AT&T Digital Life Complete Protection protects the Digital Life Equipment ("Equipment") that you bought from AT&T.

Complete Protection Period - Complete Protection begins on the date Your Digital Life Equipment is installed and continues for as long as you have the monthly service and are in good standing.

What Is Covered - AT&T will repair or replace Equipment that fails to operate as a result of defects in workmanship and/or materials including electrical failure caused by a direct result of a power surge. The Equipment must be purchased from AT&T or from an AT&T authorized location. Equipment means the Digital Life equipment you purchased from AT&T that connects and is made a part of the AT&T Digital Life system. Equipment will be replaced with those of like kind

and quality, and may be new or remanufactured. In most instances, AT&T, who will pay shipping costs, will require you to return your defective Equipment. Complete Protection does not change your original equipment manufacturer's warranty which remains in effect.

For all product returns, including warranty repair/replacements, non-warranty repairs, advance replacements and credit returns call AT&T at 1-855-288-2727.

Return units to: AT&T
13500 Independence Pkwy.
Fort Worth, TX. 76117

This product is manufactured by Edwards, A Division of Walter Kidde Portable Equipment, Inc., 8985 Town Center Parkway, Bradenton FL 34202.

A note should be included advising the nature of the malfunction. Care must be exercised in the proper packing of alarms returned under this warranty as AT&T will not be responsible for warranty repairs to equipment damaged because of improper packing.

No agent, employee or representative of the Manufacturer nor any other person is authorized to modify this warranty in any respect. Repair or replacement as stated above is the exclusive remedy of the purchase hereunder. This warranty gives you specific legal rights and you also have other rights which vary from state to state.

End of document