

# ELK-319HRR Heat & Rate of Rise Sensor



## Description

The ELK-319HRR is a Supervised, Wireless Heat Sensor. It uses a solid-state thermistor to sample and trigger an event at a selectable setpoint of either 135 or 200 degrees F. It can also trigger an event if the temperature rises 12 degrees F or more during a one (1) minute time period.

When an event is triggered the sensor transmits an alarm (trip) signal to the panel. Additionally transmitted signals include: tamper, hourly supervisory, and low battery (as needed). The sensor is powered by a single 3V lithium battery which can provide up to 10 years of life.

This sensor is compatible with Elk's 319MHz Receivers/Panels as well as many other panels that operate on the 319.5MHz Frequency and adhere to the ITI/Interlogix protocol.

## Specifications

RF frequency: 319.5 MHz

Supervision Interval: 62 - 68 minutes

Compatibility: ELK-319 Receivers/Panels & other panels that operate on the 319.5MHz Freq. and adhere to the ITI/Interlogix protocol

Battery type: One (1) 3VDC lithium battery (Panasonic or Varta Model CR123) Exp. Battery life 10 yrs

Rate of Rise Rating: 12° to 15°F (6.7° to 8.3°C)

UL max. Ambient ceiling: 100°F/150°F (37.8°C/65.6°C)

Maximum UL Spacing: 50ft (15.2m) x 50ft (15.2m)

Storage Temp Range: -30 to 167°F (-34 to 75°C)

Relative Humidity: 0 to 95% non-condensing

Dimensions 2.29" Dia. x 1.28" H (58.25mm x 32.4mm)

## Programming (Enrollment)

The following is a general guideline for programming (enrolling) a sensor into the receiver or panel. For more extensive instructions please refer to the receiver or panel instructions.

1. Place the panel into the Program mode.
2. Proceed to the WIRELESS SETUP menu.
3. Select the appropriate zone/sensor location number.
4. When prompted by the panel to trip the sensor for learning:
  - Remove the battery pull tab which will power up the sensor
  - The panel should acknowledge the sensor has been learned by keypad display and/or audio alert (depending on the panel). If enrollment fails try pressing and releasing the tamper plunger. In some cases it may be necessary to remove and reinstall the batteries.
5. Repeat the above process for any additional wireless sensors. Proceed to the zone programming to assign each sensor's zone definition.
6. Exit programming mode when finished.

<sup>TM</sup> Interlogix is a registered trademark belonging to United Technologies.



## Installation Guidelines

- Operation should be tested from the desired location to make certain it can be received by the panel before drilling any holes or permanently mounting the sensor
- Mounting this sensor on metal can negatively affect the transmitting range.
- Install the sensor within 100 ft. of the receiver or panel.
- Heat sensors such as this are recommended for areas like garages, kitchens, attics, utility & equipment closets or places where a smoke detector is not advisable.
- Avoid areas that may experience extreme or rapid increasing temperatures such as near: fireplaces, stoves, heaters, etc.
- Mount this sensor on ceilings at least 4 inches away from any wall. If placed on a wall the sensor must be within 6 inches of the ceiling.
- If using the 135°F setting make sure the ceiling location does not exceed this temperature.

## Setup

The sensor can be setup to detect a fixed temperature of either Low (135°F) or High (200°F).

Use the jumper to select Low or Hi.



Fixed Temperature

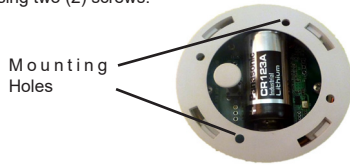
Low = 135°F

High = 200°F

Note: If no jumper is installed the sensor will be set to 200°F.

## Mounting

- Hold the mounting base with one hand and use another to twist the sensor counterclockwise and remove it from the mounting base.
- Place mounting base in the desired location and attached using two (2) screws.



- Align the sensor back onto the base and twist clockwise to lock it in place. The Sensor and Magnet are also designed for mounting using adjustable straps or ties. (purchase separately)

## Testing the Sensor

It is recommend that all wireless sensors be thoroughly walk tested after installation and programming.

1. Place the panel into the Walk Test mode.
2. Monitor the keypad display as each sensor is tripped. Refer to the receiver or panel for complete instructions. In some cases there may be a signal strength indication.
3. Exit Walk Test mode when finished.

## Battery Replacement

Low Battery trouble will be transmitted when the sensor battery needs to be replaced.

**NOTE: Replace the 3V lithium battery within 7 days following a low battery trouble indication.**

- Twist the sensor counterclockwise to remove it from the mounting base.
- Turn the sensor over and remove the old battery.



- Observe polarity on the battery and the holder and carefully insert the new battery into the sensor.

**CAUTION: Use only approved 3.0V Lithium Battery Panasonic or Varta model CR123**

- Align the sensor back onto the base and twist clockwise to lock it in place.

## BATTERY WARNING:

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

## FCC AND IC COMPLIANCE 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.
- This device complies with Industry Canada license-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 ID: 2ABBZ-RF-ROR

IC: 11817A-RFROR

This device complies with Part 15 of the FCC Rules. 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

## Limited Warranty

THIS WIRELESS SENSOR IS WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF 2 YEARS FROM DATE OF MANUFACTURE EXCLUDING BATTERIES. BATTERIES USED WITH WIRELESS DEVICES ARE NOT WARRANTED.

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**NOTE: Elk Products is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.**