

# ClareOne Rate-Of-Rise Heat Detector CLR-C1-HT

## Installation Manual



### Rate of Rise Heat Detector CLR-C1-HT

The ClareOne Rate-Of-Rise heat detector uses a built-in thermistor to sample and report on a specific set temperature or a sudden rise in temperature.

Heat – selectable 135F or 200F

Rate of Rise – rapid temp rise 12F per minute

Note: The device is powered by a 3V lithium battery providing up to 10 years of battery life.

#### Installation:

Heat detectors are normally installed in areas that are prone to smoke as kitchens and garages.

Avoid areas that may have rapidly increasing temperatures as, fireplaces, stoves, heaters, etc.

When mounting the detector should be placed on a ceiling at least 4 inches away from any wall. If placed on a wall the detector must be within 6 inches if the ceiling.

If using as a 135F make sure the ceiling location does not exceed this temperature.

#### Setup:

The detector can be setup to detect a fixed temperature of either 135F or 200F.

Use the jumper to select Low or Hi:



Fixed Temperature

Low – 135F

High – 200F

Note: if no jumper is installed the detector is set to 200F.

#### Programming:

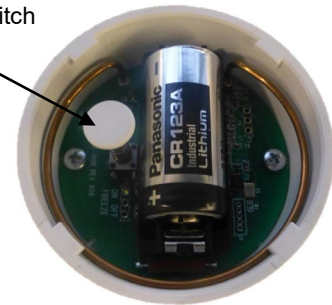
##### Enrolling

The panel must learn (program) the detector ID code in order to respond to detector signals. For complete programming information, refer to the specific control panel documentation.

To add the detector to panel memory:

1. Place the panel in program mode.
2. Proceed to the Learn Sensors menu. When the panel prompts you for a sensor group number, select the proper fire group.
3. Select the desired sensor number. When the panel prompts you to trip the detector, remove the battery pull tab. (If pull tab is already removed, press and then release the tamper switch until the panel beeps, indicating successful programming.)

Tamper Switch

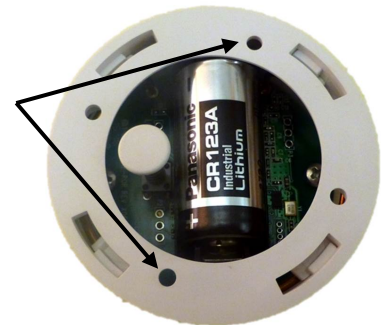


4. Exit program mode.

#### Mounting the Detector

1. Locate the base mounting holes and mount the base to the wall or ceiling with the appropriate hardware (Figure 3).
2. Attach the detector to the mounting base.

Mounting Holes



#### Replacing the Batteries

Battery life depends on how often the detector transmits signals, but is more dependent on the temperature of the installation environment. When the battery voltage gets low, the detector transmits a low battery signal to the panel. The panel then activates trouble beeps to notify the customer that the detector battery must be replaced. Pressing the status button identifies the sensor with the low battery.

Replace the battery immediately when this condition occurs, using the following battery: **Panasonic CR123A 3V.**

## Battery Disposal

The batteries used in this sensor are lithium batteries and are not reusable. Be sure to properly dispose of used lithium batteries according to your local hazardous waste disposal laws.

## Specifications

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)
Storage Temperature	-30 to 167°F (-34 to 75°C)
Relative Humidity	0 to 95% noncondensing
Maximum UL Spacing	50ft (15.2m) x 50ft (15.2m)
Frequency	319.5 MHz
Expected Battery Life	10 years
Standby Current	Less than 0.9 µA
Supervision Interval	62-68 minutes
Enclosure Dimensions	Diameter: 2.29" (58.25mm) Height: 1.28" (32.4mm)
Regulatory	UL 521 Heat Detectors for Fire Protective Signaling Systems UL 985 Household Fire Warning System Units CAN/ULC-S530 Heat Actuated Fire Detectors for Fire Alarm Systems CSFM Category 7270 FCC: 15.109 Class B, 15.231 Industry Canada: ICES-003, RSS-210

## FCC / IC 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 device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

Per FCC 15.21, The user manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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: 2ABBZ-RF-RORS-433**  
**IC: 11817A-RFRORS433**

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.

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