

HD202-Mini Addressable Heat Detector

SPECIFICATIONS

Voltage Range: 16 to 28 Volts DC Peak

Standby Current: 320 µA @ 24 VDC (one communication every 5 seconds with LED blink enabled)

LED Current: 5 mA @ 24 VDC

Installation Temperatures: 14°F to 122°F (-10°C to 50°C)

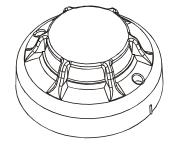
Operating Humidity Range: 10% to 93% Relative Humidity Non-condensing

Fixed Temperature Rating: 135°F (57°C)

Rate of Rise Detection: Responds to greater than 15°F/min

Height: 42 mm installed in Base

Diameter: 64 mm



BEFORE INSTALLING

This sensor must be installed in compliance with the control panel system installation manual. The installation must meet the requirements of the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when installed in compliance with the National Fire Protection Association (NFPA); see NFPA 72.

Please read the system wiring and installation manual thoroughly. This manual provides detailed information on sensor spacing, placement, zoning, and special applications. Copies of these manuals are available from Convoy Security.

GENERAL DESCRIPTION

The detector is intelligent sensors that utilize a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. The detector is a rate-of-rise temperature sensor with 135°F fixed temperature alarm. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device.

Two LEDs on each sensor light to provide 360° visibility of the sensor indication. The LEDs can be latched ON by code command from the panel for an alarm indication. The LEDs can also be unlatched to the normal condition by code command.

The detector requires compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.

WIRING GUIDE

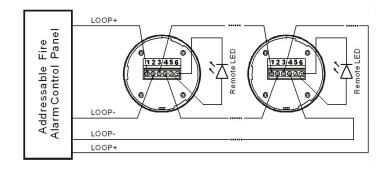
All wiring must be installed in compliance with the National Electrical Code, applicable local codes, and any special requirements of the Authority Having Jurisdiction. Proper wire gauges should be used. The installation wires should be color-coded to limit wiring mistakes and ease system troubleshooting. Improper connections will prevent a system from

responding properly in the event of a fire.

Remove power from the communication line before installing sensors.

- 1. Wire the sensor base per the wiring diagram, Figure 1.
- 2. Set the desired address by portable address setting device
- 3. Install the sensor into the sensor base. Push the sensor into the base while turning it clockwise to secure it in place.
- 4. After all sensors have been installed, apply power to the control unit and activate the communication line.
- 5. Test the sensor(s) as described in the TESTING section of this manual.

Figure 1. Wiring diagram:



ACAUTION

Dust covers provide limited protection against airborne dust particles during shipping. Dust covers must be removed before the sensors can sense temperature.

TAMPER-RESISTANCE

The detector include a tamper-resistant capability that prevents their removal from the bracket without the use

of a tool.

TESTING

Before testing, notify the proper authorities that the system is undergoing maintenance, and will temporarily be out of service. Disable the system to prevent unwanted alarms.

All sensors must be tested after installation and periodically thereafter. Testing methods must satisfy the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when tested and maintained in compliance with NFPA 72.

The sensor can be tested in the following ways:

Direct Heat Method (Hair dryer of 1000 – 1500 watts)

- 1. From the side of the detector, direct the heat toward the sensor. Hold the heat source about 6 inches (15cm) away to prevent damage to the cover during testing.
- 2. The LEDs on the detector should light when the temperature at the detector reaches the alarm set point.

If the LEDs fail to light, check the power to the detector and the wiring in the detector base.

3. Reset the detector at the system control panel.

Detectors that fail these tests should be cleaned as described under MAINTENANCE and retested. If the detectors still fail these tests they should be returned for repair.

MAINTENANCE

NOTE: Before cleaning notify the proper authorities that the system is undergoing maintenance, and therefore the system will temporarily be out of service. Disable the loop or system undergoing maintenance to prevent unwanted alarms.

It is recommended that the sensor be removed from its mounting base for easier cleaning and that sensors be cleaned at least once a year. Use a vacuum cleaner to remove dust from the sensing chamber.

Please refer to insert for the Limitations of Fire Alarm Systems

THREE-YEAR LIMITED WARRANTY

We warrants its enclosed smoke detector to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. Convoy Security makes no other express warranty for this smoke detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning Convoy Security's technical support number for a Return Authorization number, send defective units postage prepaid to Convoy Security local representative office. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

FCC STATEMENT

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.

NOTE: 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

NOTE: 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.