

HD201 — User Manual

Intelligent Addressable Photoelectric Smoke Detector

1. General description

The HD201 is a plug-in photoelectric smoke detector with addressable analog communications. It transmits an analog representation of smoke density over a communication line to a compatible HST addressable control panel.

2. Addressing

The detector address is stored in the MCU's EEPROM and can be programmed using a portable address-setting device. Confirm the assigned address against the panel configuration before commissioning.

3. Installation

Wire the detector base according to the wiring diagram, set the address, install the detector into the base by pushing and turning clockwise, then restore power and activate the communication line.

4. LED indication

Two LEDs are controlled by the panel to provide local 360° visible status indication. The exact normal/alarm indication behavior follows the connected HST panel configuration.

5. Tamper resistance

The detector includes a tamper-resistant capability intended to prevent removal from the bracket without the use of a tool.

6. Specifications

Operating voltage: 16–28 VDC. Standby current: 320 μ A maximum at 28 VDC. Alarm current with LED on: 5 mA maximum at 28 VDC. Adjustable sensitivity: 0.12–0.25 dB/m. Coverage: 7m. Operating temperature: -10°C to 50°C. Humidity: 10–93% RH, non-condensing. Height installed in base: approximately 55mm. Diameter: approximately 103mm. Weight: approximately 155g.

7. Testing and maintenance

All sensors must be tested after installation and periodically thereafter. Testing must satisfy the Authority Having Jurisdiction. HST documentation recommends testing and maintenance in accordance with NFPA 72.

8. Smoke-entry test

The official instructions identify an aerosol generator such as the GEMINI Model 501 as one smoke-entry test method. Notify the proper authorities, place the system out of service for testing and prevent unwanted alarms before beginning.

9. Troubleshooting

No communication: check base wiring, communication-line power, detector address and panel compatibility.

No LED indication: check panel status, wiring and configured LED behavior.

False/poor response: inspect detector condition, environment and maintenance status.

Cannot remove detector: check whether tamper-resistant hardware is engaged and use the appropriate tool.

10. Safety

Installation must comply with the control-panel installation manual, local codes and Authority Having Jurisdiction requirements. Remove power from the communication line before installing sensors. Do not use the detector with incompatible control panels.

Source note

Source basis: HST/H-Logic official HD201-family documentation. The supplied page identifies the product as HD201 Intelligent Addressable Photoelectric Smoke Detector. HST documentation confirms addressable analog communication, photoelectric sensing, EEPROM address storage, panel-controlled LEDs, compatible HST addressable panels and the published operating specifications used below.