

Description

205 DC heat alarms provide battery powered heat detection and alarm functions within a single unit.

Electronic thermistor sensing and microprocessor control delivers reliable performance and low maintenance.

205 DC heat alarms are powered by a non-replaceable, long-life lithium-ion battery and do not require a mains supply.

Interconnectable 205 DC heat alarms use a wireless transmission path. Configuration into a closed group ensures that other units within radio signal range are not affected by a test or fire alarm occurring within the configured group.

205 DC heat alarms are suitable for general residential applications where smoke or gas detectors may cause unwanted alarms (such as cooking areas or parking garages)¹. The 205 DC heat alarm provides home owners and installers with an easy-to-install, long-life solution for property protection applications.



205 DC heat alarm

Features

- Fixed temperature and rate-of-rise operation using electronic thermistors with microprocessor control
- Loud 85 dB sounder to alert occupants
- Integrated indicator provides visual indication of an alarm condition
- Test and Hush features in a single button
- Test and Hush visual indicator
- Test button verifies battery and alarm operation
- Hush function temporarily silences unwanted alarms
- Heat sensor fault audible and visual indication
- Hush function temporarily silences heat sensor fault indication
- Low battery audible and visual warning indication
- Hush function temporarily silences low battery audible indication
- Interconnectable heat alarms configurable into a closed group
- No limit for interconnectable units using the wireless transmission path
- Up to 10 years operation under normal conditions
- Non-replaceable battery
- Surface-mount device (SMD) circuit board design
- Attractive housing design, available with alternative top-cover styles
- Easy installation
- Low maintenance

Compliance

205 DC heat alarms have the following compliance^a.

| | BS 5446-2 ^b | CE ^c |
|---------|------------------------|-----------------|
| 205-007 | ✓ | ✓ |
| 205-009 | ✓ | ✓ |

^a Third-party conformance assessment has not been undertaken.

^b BS 5446-2 *Fire detection and fire alarm devices. Specification for heat alarms*

^c Conformité Européenne

Compatibility

The 205-009 interconnectable heat alarm is compatible with the following devices.

| Description | Part number | Datasheet |
|--|-------------|-----------|
| Smoke alarm, wireless interconnect | 205-002 | 31-0047 |
| Smoke alarm, user-replaceable 5-year lithium battery, wireless interconnect, top cover style 2 | 205-005 | 31-0047 |
| Smoke alarm, non-replaceable 10-year lithium battery, wireless interconnect | 205-014 | 31-0047 |
| Smoke alarm, non-replaceable 10-year lithium battery, wireless interconnect, top cover style 2 | 205-015 | 31-0047 |
| Smoke/heat alarm, wireless interconnect | 205-012 | 31-0095 |

Accessories

The following accessories are compatible with 205-009 DC heat alarms with wireless interconnection.

| Description | Part number | Datasheet |
|----------------------|-------------|-----------|
| Alarm remote control | 261-001 | 31-0084 |

¹ **WARNING** – Hazardous levels of smoke and toxic gas can build up before a heat alarm might operate. Where life safety is the primary

requirement in the event of a fire, smoke, gas or combination alarms usually provide earlier warning than heat alarms alone.

Specifications

| Power Supply | 205-007 | 205-009 |
|--|--|--|
| Power source | DC 3 V | |
| Quiescent current | 2 μ A | 5 μ A |
| Quiescent condition indication ^a | Flashing red LED every 40 s | |
| Battery life expectancy | 10 years | |
| Low battery indication | Short audible signal every 40 s, synchronized with a single flash of the red LED, for 30 days | |
| Low battery hush indication ^b | Flashing red LED every 20 s | |
| Low battery hush time | 10 h | |
| Alarm Condition | | |
| Alarm response threshold (rate-of-rise) | < 20 °C / min | |
| Alarm response threshold (fixed temperature) | 57 °C | |
| Alarm condition audible indication output ^a | \geq 85 dB @ 3 m (0.5 s on / 0.5 s off) | |
| Alarm condition visual indication ^a | Flashing red LED every 1 s | |
| Alarm condition current | 50 mA | 65 mA |
| Alarm condition hush indicator | Device entering the Alarm condition: Flashing red LED every 1 s Interconnected devices configured as a closed group: Flashing red LED every 6 s | |
| Alarm condition hush time | 9 min | |
| Test Condition | | |
| Test condition audible indication output ^c | \geq 85 dB @ 3 m (0.5 s on / 0.5 s off) | |
| Test condition visual indication | Device under test: Flashing red LED every 1 s Interconnected devices configured as a closed group: Flashing red LED every 40 s | |
| Fault Condition | | |
| Heat sensor fault indication | Short audible signal every 40 s and a single flash of the red LED midway between the audible indications | |
| Fault hush indication | Flashing red LED every 20 s | |
| Fault hush time | 10 h | |
| Wireless Interconnection | | |
| Wireless radio interconnection operating frequencies | — | 433 MHz, 868 MHz, 915 MHz |
| Number of interconnected devices | — | No limit within signal range |
| Maximum distance between interconnected devices ^d | — | 500 m |
| Group mode configuration indication on primary device | — | Flashing red LED every 0.5 s followed by a short audible signal |
| Group mode connection indication on replica device(s) | — | Flashing red LED every 0.5 s followed by a short audible signal |
| Group mode cancellation indication | — | Double flash of red LED together with two short audible signals |
| Group mode configuration timeout | — | 50 s |
| Environmental | | |
| Operating temperature | (0 ~ +55) °C | |
| Operating humidity | (10 ~ 95) % RH, non-condensing | |
| Storage temperature | (-25 ~ +80) °C | |
| Storage humidity | (0 ~ 98) % RH, non-condensing | |
| Miscellaneous | | |
| Dimensions | Φ 100 mm \times 45 mm | |

^a Including all wireless interconnect devices configured in the same closed group.

^b Wireless interconnection feature is disabled during a low battery condition. Each unit will continue to function independently as a stand-alone heat alarm.

^c Following completion of a Test, the audible test signal from interconnected devices may take up to 10 s to silence.

^d Distance in free air.

Ordering Information

| Wireless Interconnection | |
|--------------------------|---|
| 205-007 | — |
| 205-009 | ✓ |

View the complete range of products at www.numens.com

