

Description

D-243 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.

D-243 DC heat alarms are powered by a long-life lithium-ion battery and do not require a mains supply. Models with either user-replaceable and non-replaceable batteries are available.

Interconnectable D-243 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.

D-243 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 D-243 DC heat alarm provides home owners and installers with an easy-to-install, long-life solution for property protection applications.



D-243 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
- User-replaceable battery and non-replaceable battery models available
- Surface-mount device (SMD) circuit board design
- Attractive housing design, available with alternative top-cover styles
- Easy installation
- Low maintenance

Compliance

D-243 DC heat alarms have the following compliance^a.

| | BS 5446-2 ^b | CE ^c |
|-------------|------------------------|-----------------|
| D-243-07H | ✓ | ✓ |
| D-243-07HWi | ✓ | ✓ |
| D-243-07HTR | ✓ | ✓ |

^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 D-243-07HWi interconnectable heat alarm is compatible with the following devices.

| Description | Part number | Datasheet |
|---|--------------|-----------|
| Smoke/heat alarm, wireless interconnect | D-243-07SHWi | 31-0095 |

Accessories

The following accessories are compatible with D-243-07HWi DC heat alarms with wireless interconnection.

| Description | Part number | Datasheet |
|----------------------|-------------|-----------|
| Alarm remote control | D-243-07R | 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

| | D-243-07H D-243-07HTR | D-243-07HWi |
|--|--|--|
| Power Supply | | |
| 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 | 5 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 master device | — | Flashing red LED every 0.5 s followed by a short audible signal |
| Group mode connection indication on slave 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 x 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

| | Non-Replaceable Lithium Battery | Replaceable Lithium Battery | Wireless Interconnection |
|-------------|---------------------------------|-----------------------------|--------------------------|
| D-243-07H | ✓ | — | — |
| D-243-07HWi | — | ✓ | ✓ |
| D-243-07HTR | — | ✓ | — |

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