

Description

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

Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of fire and high immunity against unwanted alarms.

205 DC smoke 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 205 DC smoke 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.

The 205 DC smoke alarm is suitable for general residential applications, and provides home owners and installers with an easy-to-install, long-life solution for life safety and property protection applications.

Features

- Photoelectric smoke sensing chamber technology
- 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
- Smoke chamber fault audible and visual indication
- Hush function temporarily silences smoke chamber fault indication
- Low battery audible and visual warning indication
- Hush function temporarily silences low battery audible indication
- Interconnectable smoke 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



205 DC smoke alarm

Compliance

205 DC smoke alarms have the following compliance.

	EN 14604 ^a	VdS 3131 ^{b, c}	CE ^d
205-004	✓	✓	✓
205-005	✓	—	✓
205-006 ^c	✓	✓	✓
205-015	✓	✓	✓

^a EN 14604 Smoke alarm devices

^b VdS 3131 VdS Guidelines for Smoke Alarm Devices. Additional Requirements, Requirements and Test Methods

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

^d Conformité Européenne

Accessories

The following accessories are compatible with 205 DC smoke alarms with wireless interconnection.

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

Specifications

	205-004 205-006	205-015	205-005
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	(0.08 ~ 0.15) dB/m		
Alarm condition audible indication output ^a	≥ 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	≥ 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			
Smoke chamber fault indication	Short audible signal every 40 s and a single flash of the red LED midway between the audible indications		
Smoke chamber fault hush indication	Flashing red LED every 20 s		
Smoke chamber 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 × 36 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 smoke 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

	Replaceable Lithium Battery	Wireless Interconnection
205-004	—	—
205-005	✓	✓
205-006	✓	—
205-015	—	✓

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

