![NUMENS Professional Safety Products]

220 wireless interconnect output module

EN 54-18, $C\epsilon$ Output module for residential applications

Description

The 220 output module connects wirelessly to compatible smoke, gas and heat alarms, and provides an extended alarm output function to external ancillary equipment.

The output is provided by a low-power magnetic latching relay. A control provides a hush and test function. Indicators display alarm and fault conditions.

220 wireless interconnect output modules are powered by a replaceable long-life replaceable lithium-ion battery, and do not require external power.

The 220 range of wireless interconnect output modules provide residential occupants with an economical way to activate ancillary equipment in response to an alarm condition.

Features

- Wireless interconnection to smoke, heat and gas alarms
- Configurable as part of a local network of interconnected devices
- Replaceable battery provides up to 5 years operation under normal conditions
- Output is activated when Alarm condition is received from connected devices
- Model available with voltage-free relay contact output
- Model available with pulsed voltage output
- Alarm condition indicator
- Fault condition indicator for detected output relay, Group communication and internal component failures
- Hush/Test function button
- Resettable when connected detection devices reset
- Suitable for outdoor use
- Easy installation
- Low maintenance

Compliance

220 output modules have the following compliance [a].

	EN 54-18 [b]	CE [c]
220-001	✔	✔
220-002	✔	✔

[a] Third-party conformance assessment has not been undertaken.

[b] EN 54-18 *Fire detection and fire alarm systems — Input/output devices*

[c] Conformité Européenne

Accessories

The following accessories are compatible with 220 wireless interconnect output module.

Description	Part Number	Datasheet
Alarm remote control, vibration alert	261-001	31-0084

Compatibility

The 220 wireless interconnect output modules are compatible with the following Numens devices.

Description	Part Number	Datasheet
Smoke alarm	205	31-0047
Heat alarm	205	31-0094
Smoke/heat alarm	205	31-0095
Propane gas alarm	206	31-0102
Natural gas alarm	206	31-0103
CO gas alarm	206	31-0124

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Specifications

Power	220-001	220-002
Power source	DC 3 V	
Battery life expectancy	5 years	
Low battery indication	Yellow LED flashes every 8 s	
Quiescent Condition		
Quiescent current	5 µA	
Quiescent condition indication	Red LED flashes every 40 s	
Activation Output		
Activation output changeover relay	4 A @ DC 30 V / 1 A @ AC 277 V	—
Activation output	—	DC 12 V for 1 s @ 1.5 A
Activation current	2 mA	
Activation visual indicator	Red LED flashes every 1 s	Red LED flashes once on activation
Activation hush indicator	Red and Yellow LED flashes every 1 s	
Activation hush time	8 min	
Test Condition		
Test condition visual indicator	Red LED flashes every 1 s	
Fault Condition		
Fault condition	Yellow LED flash every 3 s	
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 in free air	500 m	
Group mode connection indication on replica device(s)	Red LED flashes twice	
Group mode cancellation indication on replica device(s)	Yellow LED flashes twice	
Environmental		
Operating temperature	(-10 ~ +55) °C	
Operating humidity	(0 ~ 95) % RH, non-condensing	
Storage temperature	(-25 ~ +80) °C	
Storage humidity	(0 ~ 98) % RH, non-condensing	
Dimensions (h × w × d)	(68 × 124 × 51) mm	
Ingress protection rating	IP-67	

Ordering Information

	Voltage-free Output	Pulsed Voltage Output
220-001	✔	—
220-002	—	✔

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