

Description

The 4001 non-addressable control and indicating equipment forms the central part of a fire detection and alarm system. The 2-wire 4001 is compatible with Numens non-addressable devices.

The 4001 comes standard with features that allows flexibility and expandability. Default configuration programming facilitates out-of-box installation and rapid commissioning.

The 4001 control and indicating equipment provides fire detection and alarm system designers with an economical product for life safety and property protection applications.

Features

- 2, 4 or 8 detection zones
- Supports up to 32 non-addressable devices per alarm zone circuit
- Configurable non-latching alarm zones¹
- Configurable alarm dependency (zone coincidence detection)²
- Configurable timer to delay output activation (up to 10 min)
- Capacitor end-of-line device
- 3 Access Levels
- Single-person test mode
- Day/night mode configurable
- Manual activation of alarm devices
- Auxiliary DC 24 V output, with short-circuit protection
- Programmable non-addressable alarm output circuit
- 2 unmonitored relay contacts for Fire Alarm Condition outputs
- 1 unmonitored relay contact for Fault Condition output
- 3 voltage-free inputs for remote reset, evacuation start/stop, and Day/Night mode
- Optional detection zone N/O and N/C relay outputs
- Optional remote LED detection zone displays
- Clear alarm zone LED indicators, with a single indicator for Fault, Disable and Test Condition indication
- Recessed mounting enclosure
- Supports up to 7 Repeater Panels
- Easy installation



4001 non-addressable control and indicating equipment

Compliance

4001 control and indicating equipment have the following compliance.

	EN 54-2 ^a	EN 54-4 ^b
4001-01	✓	✓
4001-02	✓	✓
4001-03	✓	✓

^a EN 54-2 Control and indicating equipment

^b EN 54-4 Power supply equipment

Accessories

The following accessories are compatible with 4001 control and indicating equipment.

Description	Part Number	Datasheet
Network interface card	6001-03	31-0048
Remote LED display card, 16 indicators	6001-04	31-0049
Detection zone 8-relay output card	6001-07	31-0052

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



¹ If used, this feature does not comply with EN 54-2.

² This feature has not been independently assessed for conformance to EN 54-2.

Specifications

Power Supply	4001-01	4001-02	4001-03
Operating voltage	AC (85 ~ 260) V / 50/60 Hz		
Mains supply current limit	720 mA @ AC 230 V		
Mains supply fuse	4 A / AC 250 V slow blow (20 mm)		
Mains supply fault threshold voltage	≤ AC 60 V		
Power supply	2.2 A @ DC 28.5 V		
Quiescent current (I_{min})	45 mA		
Maximum continuous output current ($I_{a, max}$)	0.425 A		
Maximum continuous output current ($I_{b, max}$)	1.3 A		
Standby battery maximum capacity (2 × DC 12 V)	7.2 Ah		
Maximum battery current draw	1.5 A @ maximum operating temperature		
Battery fuse	6 A resettable (electronic fuse)		
Battery fault threshold voltage	< DC 20 V		
Battery fault threshold internal resistance	0.5 Ω		
Detection Zones			
Detection zone circuits	2	4	8
Number of connected devices per detection zone circuit	32		
Detector zone quiescent current	5 mA		
Detector zone alarm current	40 mA	80 mA	160 mA
Detector zone wiring characteristics (max)	40 Ω / 0.47 μF		
Detection zone end-of-line capacitor	10 μF / DC 50 V		
Manual call point resistor value	(470 ~ 689) Ω		
Alarm Zones			
Alarm zone outputs	2		
Alarm zone current	700 mA		
Alarm zone end-of-line resistor	100 kΩ		
Alarm zone monitoring	Open- and short-circuit		
Alarm zone voltage (max)	DC 27.5 V		
Alarm zone fuse	1.1 A resettable (electronic fuse)		
Ancillary Outputs			
Number of programmable output relays	2		
Ancillary fire C/O relay	2 × (1.0 A @ DC 30 V / 1 A @ AC 240 V)		
Ancillary fault N/C relay	1.0 A @ DC 30 V / 1 A @ AC 240 V		
Auxiliary supply	DC (12.0 ~ 28.2) V @ 200 mA		
Auxiliary supply at $I_{b, min}$	DC (19.5 ~ 29.0) V @ 0 mA		
Ancillary Inputs			
Evacuation start / stop	Non-latching, voltage-free		
Day / Night mode	Non-latching, voltage-free		
Remote reset	Non-latching, voltage-free		
Miscellaneous			
Terminal wiring	(0.4 ~ 2.5) mm ²		
Operating temperature	(0 ~ +50) °C		
Operating humidity	(0 ~ 95) % RH, non-condensing		
Storage temperature	(-25 ~ +80) °C		
Storage humidity	(0 ~ 98) % RH, non-condensing		
Dimensions (h × w × d)	(402 × 337 × 99) mm		
Weight (excluding batteries)	4.0 kg		

Ordering Information

	2 Detection Zone Circuits	4 Detection Zone Circuits	8 Detection Zone Circuits
4001-01	✓	—	—
4001-02	—	✓	—
4001-03	—	—	✓

