

Description

402 non-addressable gas alarms are suitable for connection to 2-wire and 4-wire non-addressable fire detection control and indicating equipment. 402 detectors can also connect to 2-wire and 4-wire addressable fire detection control and indicating equipment that can accept non-addressable detectors¹.

Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of natural gas with high immunity against unwanted alarms.

The 402 gas alarm range provides fire detection and alarm system designers with a Standards-compliant, economical gas detector for life safety and property protection applications.

Features

- Advanced algorithms provide advanced detection discrimination
- Stable gas sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Surface-mount device (SMD) circuit board design
- 2-wire or 4-wire system operation
- DC 12 V or DC 24 V operation
- Loud 85 dB internal sounder
- Audible warning signal of an internal fault
- N/C or N/O alarm relay output option
- Remote LED output option
- Easy installation. No programming required
- Connectable to zone monitor for use with addressable control and indicating equipment
- Sleek, low-profile housing design
- Low maintenance



402 non-addressable natural gas alarm

Compliance

402 gas alarms have the following compliance.

	EN 50194 ^{a, c}	UL 1484 ^{b, c}	CE
402-003	✓	✓	✓
402-004	✓	✓	✓
402-006	✓	✓	✓

^a EN 50194 *Electrical apparatus for the detection of combustible gases in domestic premises. Test methods and performance requirements*

^b UL 1484 *Residential gas detectors*

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

Accessories

The following accessories are compatible with 402 gas alarms.

Description	Part number	Datasheet
8-terminal 99 mm low profile base	CN1041	31-0038
Detector monitor module	620-001	31-0027

¹ May be used with the 620-001 detector monitor module.

Specifications

	402-003	402-006	402-004
Operating voltage	DC (10.8 ~ 33) V		DC (10.8 ~ 26.4) V
Start-up current	≤ 100 μA		120 mA
Start-up time	≤ 10 min		
Quiescent current	50 μA		60 mA
Quiescent condition indicator	Green LED flashing every 5 s		
Sampling time	(2 ~ 4) s		
Alarm response threshold	(0.10 ± 0.04) LEL CH ₄ (natural gas)		
Alarm condition indicator	Red LED		
Sounder output	≥ 85 dB @ 3 m		
Alarm current (max)	50 mA @ DC 24 V		
Alarm relay	—		SPST. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
Remote LED output current (max)	—	15 mA	—
Reset voltage	≤ 1 V		
Reset time	≤ 5 s		
Internal fault indication	Single short audible signal every 30 s		
Operating temperature	(-10 ~ +50)°C		
Operating humidity	(0 ~ 95)% RH, non-condensing		
Storage temperature	(-25 ~ +80)°C		
Storage humidity	(0 ~ 98)% RH, non-condensing		
Dimensions (excluding contacts)	Φ 102 mm × 45 mm		
Ingress protection rating	IP-42		

Ordering Information

	2-Wire	4-Wire	Remote LED Output	Relay Output
402-003	✓	—	—	—
402-006	✓	—	✓	—
402-004	—	✓	—	✓

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