

NB983

Gas Detector (CO, natural gas, propane gas)

NB983 conventional gas detectors are state-of-the-art detectors suitable for connection to 4-wire conventional fire detection control and indicating equipment, or to 4-wire addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of carbon monoxide, natural gas or propane gases and high immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Choice of Carbon monoxide, natural gas or propane gases detection available
- Japan-made highly reliable stable gas sensor. No adjustment or replacement required
- High immunity against unwanted alarms
- 4-wire system operation
- Detector auto-reset once gas levels fall below alarm threshold levels
- Internal reed switch for hush and test functions
- DC 24 V operation
- DC 12 V optional operation available for CO detector
- N/C or N/O alarm relay output
- 70 dB internal sounder
- Easy installation. No programming required
- Connects to zone monitor for use with addressable control and indicating equipment



TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 24) V	
START-UP CURRENT	120 μ A	
STANDBY CURRENT	50 μ A	
ALARM CURRENT (MAX)	20 mA / 45 mA	
RESET VOLTAGE	≤ 1 V	
RESET TIME	≤ 5 s	
CARBON MONOXIDE ALARM RESPONSE THRESHOLD	UL	EN
	70 ppm for 60 min ~ 240 min	50 ppm for 60 min ~ 90 min
	150 ppm for 10 min ~ 50 min	100 ppm for 10 min ~ 40 min
	400 ppm for 4 min ~ 15 min	300 ppm for < 3 min
PROPANE ALARM RESPONSE THRESHOLD	Propane Alarm Response Threshold $\leq 25\%$ LEL	
NATURAL GAS ALARM RESPONSE THRESH.	Natural Gas Alarm Response Threshold $\leq 25\%$ LEL	
OPERATING TEMPERATURE	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
ALARM INDICATOR	Two continuous emitting red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	$\varnothing 100$ mm $\times$ 37 mm	
INGRESS PROTECTION RATING	IP-32	

ORDER CODE	Nominal Operating Voltage	Gas
NB983-CO-12	DC 12 V	CO
NB983-CO-24	DC 24 V	CO
NB983-LP	DC 24 V	C ₃ H ₈
NB983-NG	DC 24 V	CH ₄

