Combination Smoke and Carbon Monoxide Alarm

SC07

Technical Specifications

Safety Standards	UL 217, UL 2034, ULC S531, CSA 6.19-01, EN 14604:2005, EN 50291
Sensor Type	Photoelectric smoke sensor and electrochemical CO sensor
Operating Life	10 years
Power Source	3 V CR123A lithium battery (non-replaceable)
Standby Current	< 6 uA (avg.)
Alarm Current	< 60 mA (avg.)
Alarm Priority	The smoke alarm takes precedence when both smoke and carbon monoxide are present.
Alarm Sound Level	≥ 85 dB at 10 ft (3 m)
Operating Ambient Temperature	40-100 °F (4.4-37.8 °C)
Operating Relative Humidity	≤ 85% RH (non-condensing)
Silence Duration	≤ 9 minutes
Indicator Light	LED (red/yellow/green)
Product Weight	0.66 lbs (300 g)
Product Dimensions	5.7 × 5.7 × 2.0 inches (146 × 146 × 51 mm)
Package Contents	1 × Alarm Unit + 1 × Mounting Bracket + 3 × Screws + 3 × Anchor Plugs + 1 × User Manual

Working Modes

Powering On	After the unit is fully mounted into the mounting bracket, it will automatically turn on. The LCD display will activate and the LED indicator will blink 8 cycles (yellow/green/red) in sequence. Afterwards, the LED indicator and LCD will turn off, and the unit will enter the standby mode. The LCD display will turn off if there is no operation within 5 minutes.
Standby Mode	The LED indicator will flash green once every 60 seconds.
Alarm Mode	·Smoke alarm: 3 long beeps every 1.5 seconds. The LED indicator will flash red with the alarm sound. ·CO alarm: 4 quick beeps every 5.8 seconds. The LED indicator will flash red with the alarm sound.
Exiting an Alarm	When the smoke or CO concentration drops below the alarm threshold, the alarm signal stops, the LED indicator will continuously flash green once per second for 5 seconds and then enter the standby mode.
Test Button	·When testing the alarm weekly, press the test button until you hear a short beep, indicating the the alarm has entered the test mode. ·Once the alarm is in the test mode, the alarm will deliver 2 sets of 3 long beeps followed by 2 sets of 4 quick beeps, to indicate the alarm is operating normally. The LED indicator will flash red with the alarm sound. ·To silence the unit during an alarm. ·To test the unit's electronics and check the alarm function.
Silence Function	·During the smoke or CO silence mode, the LED indicator will flash red once every 5 seconds. ·Silence function of smoke alarm If you press the Test/Silence button during a smoke alarm, the alarm will be terminated. If the smoke density still exceeds the alarm threshold, the unit will deliver an alarm within 9 minutes. ·Silence function of CO alarm If you press the Test/Silence button during a CO alarm, the alarm will be terminated. If the CO density still exceeds the alarm threshold, the unit will deliver an alarm within 6 minutes.
Low Battery Warning	The LED indicator will flash yellow together with 1 beep every 60 seconds.
Malfunction Warning	The alarm will deliver 2 beeps approximately every 40 seconds and the LED indicator will flash yellow 1-4 times. (The LED flashes yellow 1 or 2 times, meaning the alarm has entered smoke malfunction mode; the LED flashes yellow 3 or 4 times, meaning the alarm has entered CO malfunction mode. And the alarm must be replaced immediately.)
End of Life	Once the maximum lifetime (10 years) is reached, the alarm will deliver 2 beeps and the LED indicator will flash yellow twice every 30 seconds. This end-of-life signal can be temporarily silenced for 3 days by pressing the test button. The end-of-life silence feature can only be used for a total of 30 days. After 30 days, the end-of-life signal cannot be silenced.

CO Sensitivity

The X-Sense smoke and carbon monoxide alarm is programmed to sound an alarm at the following CO concentrations within the time periods listed:

EN 50291:2010 Standard:

	CO Concentration	Alarm Response Time
CO Concentration Sensitivity	30 PPM	> 120 minutes
	50 PPM	60-90 minutes
	100 PPM	10-40 minutes
	300 PPM	< 3 minutes

UL 2034 Standard:

	CO Concentration	Alarm Response Time
CO Concentration Sensitivity	70 PPM	60-240 minutes
	150 PPM	10-50 minutes
	400 PPM	4-15 minutes

CO Concentration and Symptoms

The table below shows the effects of different levels of CO poisoning on the body:

Parts per Million (PPM)	Effects on Adults
100	Slight headache, nausea, fatigue (flu-like symptoms).
200	Dizziness and headache within 2-3 hours.
400	Nausea, frontal headache, drowsiness, confusion and rapid heart rate. Risk to life after over 3 hours of exposure.
800	Severe headaches, convulsions, vital organ failures. Death possible within 2-3 hours.