

# PRODUCT SPECIFICATIONS

Doc. No. SC04-PD02

**X-SENSE®**  
Ultimate Safety Experts



## Combination Smoke and Carbon Monoxide Alarm SC04

### Technical Specifications

<b>Sensor Type</b>	Photoelectric smoke sensor and electrochemical CO sensor
<b>Operating Voltage</b>	3.0 VDC
<b>Battery Type</b>	3.0 V lithium battery
<b>Standby Current</b>	BAT1 < 6 $\mu$ A; BAT2 < 6 $\mu$ A (The average static current is less than 6 $\mu$ A during a 10-minute test.)
<b>Alarm Current</b>	BAT1 < 5 mA; BAT2 < 60 mA
<b>Alarm Priority</b>	The smoke alarm takes precedence when both smoke and carbon monoxide are present.
<b>Audibility Level</b>	> 85 dB @ 3 m
<b>Operating Ambient Temperature</b>	40 to 100 °F (4.4 to 37.8 °C)
<b>Operating Relative Humidity</b>	≤ 85% (non-condensing)
<b>Safety Standards</b>	EN 14604 & EN 50291
<b>Product Life</b>	10 years

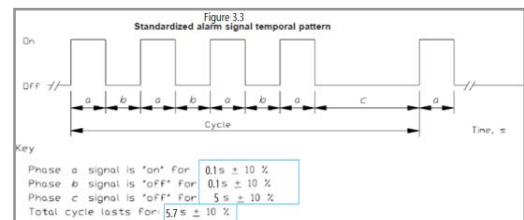
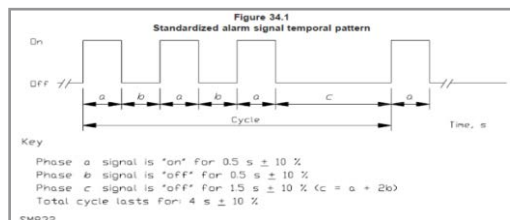
## Working Modes

<b>Powering On</b>	After the unit is fully mounted into the mounting bracket, it will automatically turn on. The LED indicator will blink 8 cycles (red/green/yellow) in sequence. Afterwards, the LED indicator will turn off, and the unit will enter the standby mode.
<b>Standby Mode</b>	The LED indicator will flash green once every 60 seconds.
<b>End of Life</b>	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.
<b>Fault Indication</b>	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.)
<b>Exiting an Alarm</b>	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.
<b>Silence Duration</b>	<ul style="list-style-type: none"> <li>• Smoke: approx. 9 minutes</li> <li>• CO: approx. 9 minutes</li> </ul>
<b>Low Battery Warning</b>	<ul style="list-style-type: none"> <li>• Low Voltage Range: 2.65-2.75 VDC</li> <li>• The LED indicator will flash yellow together with 1 beep every 60 seconds.</li> </ul>
<b>Silence Function</b>	<ul style="list-style-type: none"> <li>• During the smoke or CO silence mode, the LED indicator will flash red once every 5 seconds.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<b>Test Button</b>	<ul style="list-style-type: none"> <li>• When testing the alarm weekly, press the test button until you hear a short beep, indicating that the alarm has entered the test mode.</li> <li>• 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.</li> <li>• To silence the unit during an alarm.</li> <li>• To test the unit's electronics and check the alarm function.</li> </ul>

**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.



## Smoke Sensitivity

Smoke Sensitivity	Test Direction	Air Flow	Sensitivity
	LFP (Least Favorable Position)	0.2 m/s	0.10-0.17 dB/m

Air flow →

CO Concentration Sensitivity	CO Concentration	Alarm Response Time
	50+3/-2 PPM	60-90 minutes
	100+3/-2 PPM	10-40 minutes
300+3/-2 PPM	< 3 minutes	