

# PRODUCT SPECIFICATIONS

Doc. No. CO03D-PD01

X-SENSE® Pro



## Carbon Monoxide Alarm CO03D

### Technical Specifications

UPC: 741376054579

Safety Standard	EN 50291:2010
Sensor Type	Electrochemical
Operating Life	10 years
Power Source	3 × 1.5 V AA alkaline batteries (replaceable)
Alarm Sound Level	≥ 85 dB at 1 m (3.28 ft)
Operating Temperature	4–38°C (40–100°F)
Operating Relative Humidity	10%–85% RH (non-condensing)
Silence Duration	Approx. 9 minutes
Indicator Light	LED (red/yellow/green)
Product Weight	133 g (0.29 lb)
Product Dimensions	110 × 110 × 37 mm (4.3 × 4.3 × 1.5 inches)
Package Contents	1 × Alarm Unit + 1 × Mounting Bracket + 3 × 1.5 V AA Batteries + 2 × Screws + 2 × Anchor Plugs + 1 × User Manual



## Working Modes

<b>Power On</b>	After the batteries are installed, the buzzer delivers a "beep" and the LCD screen lights up. The red, green and yellow LED indicators will flash in sequence for 8 times. Then the LCD backlight and LED indicators will turn off and the unit will enter the standby mode.
<b>Standby Mode</b>	The green LED indicator flashes once every 60 seconds.
<b>Alarm Mode</b>	4 beeps every 5.8 seconds. After 4 minutes, 4 beeps per minute. The red LED indicator flashes with the alarm sound.
<b>Exiting an Alarm</b>	When the CO concentration drops below the alarm threshold after an alarm state, the alarm signal stops, the green LED indicator will continuously flash once per second for 5 seconds and then enter the standby mode.
<b>Test Button</b>	<ul style="list-style-type: none"><li>• Test your alarm by holding the TEST/HUSH button until the unit beeps once and the red LED flashes once, then release the test button.</li><li>• Once the alarm is in the test mode, the blue backlight will be lit, and the alarm will deliver 2 sets of 4 beeps, finally sounding 1 beep. The red LED indicator will flash 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>
<b>Silence Function</b>	<ul style="list-style-type: none"><li>• If you press the TEST/HUSH button during an alarm state, the alarm will enter the silence mode. If the CO concentration still exceeds the alarm threshold within 6 minutes, the unit will enter the alarm state again.</li><li>• Silence duration: Approx. 9 minutes</li></ul>
<b>Low Battery Warning</b>	Low voltage range: 3.45-3.55 V DC The yellow LED indicator flashes together with 1 beep every 60 seconds.
<b>Fault Indication</b>	The buzzer issues 2 quick beeps every 40 seconds and the yellow LED indicator flashes 1 to 4 times every 40 seconds.
<b>End of Life</b>	Once the maximum lifetime (10 years) is reached, the alarm beeps twice and the yellow LED indicator flashes twice every 30 seconds. If you press the TEST/HUSH button, the alarm will be silenced for 3 days (72 hours). This function can be used 10 times in 30 days. After 30 days, the end-of-life signal cannot be silenced.

## CO Sensitivity

The carbon monoxide alarm is programmed to sound an alarm at the following CO concentrations within the time periods listed:

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