

RFCO-A Wireless CO detector

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Invented for life



- ▶ Advanced technology CO sensor with 10 years life
- ▶ Built-in sounder and LED indicator for immediate notification
- ▶ Supervision alerts for sensor health, low battery, and tamper conditions
- ▶ Low current draw for up to 6 years battery life

RADION CO is a wireless detector with an advanced electrochemical sensor that continuously monitors the air for poisonous carbon monoxide gas. When CO levels cause an alarm level, the detector alerts through its built-in sounder and sends an alarm message to the wireless receiver. RADION CO is ideal for residential living areas, particularly where exposure to fuel-burning appliances and combustion engines is possible.

System overview

RADION Life Safety

RADION Life Safety offer a complete portfolio for wireless smoke, heat and CO detectors, with excellent RF range, scalability and exceptional battery life required to ensure reliable performance and superior quality. Alarm signals are transmitted to the wireless receiver connected to the control panel. Multiple-device enrollment options and advanced diagnostics make installation and maintenance simple and cost-effective.

Wireless smoke, heat and CO detection

The three-detector portfolio offers an excellent solution for protecting people and property from fire and poisonous carbon monoxide gas.

Functions

Sophisticated electrochemical sensor

RADION CO electrochemical sensing technology continuously monitors levels of carbon monoxide in the air to determine appropriate alarm responses. Each sensor is individually calibrated and tested in the factory using carbon monoxide gas to ensure accuracy. This advanced sensor has a 10 year life span.

Built-in audible alarm

RADION CO built-in audible alarm sounds at a minimum sound output of 85 dBA at 3 m when poisonous carbon monoxide gas is detected. The alarm automatically resets and silences, when the alarm condition goes away. The memory feature indicates if CO has been previously detected within the last 24 hours.

Automatic monitoring for sensor health

The detector is programmed to self-check the sensor and the battery voltage every 40 seconds, and will notify the control panel if there is a problem.

LED indicators for alarm, low battery and sensor malfunction

When potentially dangerous levels of CO are detected a LED flashes and, if the CO persists, the alarm sounds and an alarm message is sent to the receiver connected to the control panel. The rate of flashing of the LED indicates the level of CO. The higher the level of CO detected, the sooner the alarm will sound.

When the battery is low or there is a sensor malfunction the LED flashes, the alarm sounds and a message is likewise sent to the receiver connected to the control panel.

Large user-friendly test / silence button

The large ergonomic test / silence button allows for frequent testing of the sensor, electronics, battery and alarm, and for silencing false or nuisance alarms for a 4-minute period. The button is large and concave making it easy to reach out of the way installations with a pole or broom stick, often avoiding the need for ladders or lifts. As a safety procedure, if the level of CO is greater than 150 ppm, the silence button will be automatically disabled.

Compatibility

Control panel	Receiver
G Series: B9512G/B8512G B Series: B6512/B5512/B4512/B3512	B810 wireless SDI2 bus interface
GV4 Series: D9412GV4/D7412GV4 v2.00 or higher	

Tamper detection and notification

The tamper switch detects removal of the detector from its base. When the sensor head is removed, a signal is sent to the control panel via the receiver. The detector also provides an optional means to prevent tampering by requiring a tool to remove the detector from the mounting base.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	UL 2075 – Gas and Vapor Detectors and Sensors
	FCC	T3X-EICO
Canada	IC	1249A-EICO

Installation/configuration notes

Indoor use.

The detector has a twist-on mounting plate with multiple mounting points for easier installation. The mounting plate activates the battery when the detector is installed, to prevent battery power consumption during storage or prior to installation.

Parts included

Quantity	Component
1	detector with installed radio module and batteries
2	mounting screws
2	wall anchors

Technical specifications

Electrical

Battery type	Duracell 1.5 V AAA (2x)
Typical battery life (years)	up to 6
Frequency (MHz)	433.42

Mechanical

Dimensions (H x W x D)	120 mm x 45 mm x 105 mm (4.7 in x 1.77 in x 4.13 in)
Weight	172 g (0.38 lb)

Environmental

Minimum operating temperature* (°C / °F)	4.4 °C (+40 °F)
Maximum operating temperature* (°C / °F)	+55 °C (+131 °F)
Minimum storage temperature* (°C / °F)	-10 °C (+14 °F)
Maximum storage temperature* (°C / °F)	+40 °C (+104 °F)
Operating and storage relative humidity* (%)	0 - 93 % (non-condensing)
Minimum alarm sound	85dBA at 3 m (10 feet)

*Normal operating and storage conditions. Product will perform outside this range as described in applicable regulatory standards, however extended exposure to outside this range may affect product life.

Ordering information

RFCO-A Wireless CO detector

Electrochemical detector. For use in North and South America.

Order number **RFCO-A**

Represented by:

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
emea.securitysystems@bosch.com
emea.boschsecurity.com

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany
www.boschsecurity.com

North America:
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
onlinehelp@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia