

EiA207 series - Carbon Monoxide Alarm (Intertek)

Key Features

- ▶ UL 2034 and CSA6.19 Certified, UL 2075 Ready
- ▶ Proven electrochemical sensor (10 year sensor life)
- ▶ Unique modular plug-in radio design
- ▶ Large EZ-Press™ Test/Hush button
- ▶ Automatic low battery indication
- ▶ Automatic sensor fault indication
- ▶ Built-in sounder – 85dBA at 3 meters
- ▶ End of life indicator
- ▶ Power up, test, alarm, hush, memory and fault indicators
- ▶ Memory feature indicates if CO was previously detected
- ▶ Easy to install twist-on base design
- ▶ 5 year warranty

Product Description

The EiA207 series of Carbon Monoxide (CO) alarms has a high performance, proven electrochemical sensor to detect the presence of CO. Each sensor is individually calibrated & tested in CO gas to ensure accuracy.

A unique external 8 pin header design enables simple, plug-in interface with a wide range (frequency and/or protocol) of custom OEM radio modules. No need to open the housing or to solder ribbon cables.

The memory feature records the last CO alarm level and can be useful to check if CO has been present while the home owner or tenant was away from the property.

EiA207 devices are specifically designed for simple & intuitive, time-saving installation, commissioning and maintenance. All necessary mounting hardware is included.

The large, ergonomically located Test/Hush button enables full testing of the alarm. All aspects of the alarm (sensor, electronics, battery and sounder) can be tested with the press of a button.

Operation

When toxic levels of Carbon Monoxide are detected, the alarm will sound and the red alarm LED will flash as detailed below:

CO Level	Red LED	Horn
< 50 ppm	OFF	OFF
> 50 ppm	1 flash/3s	On within 60-240mins
> 110 ppm	2 flashes/3s	On within 10-50mins
> 250 ppm	3 flashes/3s	On within 4-15mins

The device will automatically cease to alarm when the carbon monoxide gas clears.

An 'End-of-Life' sensor fault or low battery condition will be indicated by visual and audible alarms.

Pressing and holding the Test/Hush button will perform a complete device test as well as sounding the horn to verify functionality.



Technical Specification

- Sensor Types:** Proven electrochemical sensing technology. 100% calibrated and tested with carbon monoxide gas to ensure accuracy. CO level is checked every 4 seconds.
- Radio Integration:** Plug-in 8 Pin header
- Integrated head removal tamper switch:** When head is removed a signal can be sent to the panel/hub via the RF module
- Sound Level:** Minimum output 85dBA at 3m. The sounder contacts are soldered directly to the piezo disc for additional security
- Button Test:** Checks the sensor, electronics, battery and horn
- Silence function:** As a safety feature, silence function can only be used once per alarm event and only if CO level <250ppm (automatically resets after 4 min)
- Supply Voltage:** 2 x AAA Alkaline Batteries
- LED Indicators:**
Green: Power up & Test
Red: Power up, pre-alarm, alarm, hush mode and memory
Yellow: Power up & fault
- End of Life:** The CO Alarm includes an "end-of-life" indicator which will notify the user when the device has reached the end of its 10 year operational life and needs to be replaced
- Operating Temperature Range:** 40°F to 100°F
- Storage Temperature Range:** 14°F to 104°F
- Humidity Range:** 15 % to 95 % Relative Humidity (non-condensing)
- Product dimensions:** 4.72" x 4.13" x 1.77"/120mm x 105mm x 45mm
- Weight:** 7.76 ounces or 220g (Includes packaging)
- Warranty:** 5 year (limited) warranty
- Approvals:**













Intertek

Manufactured to ISO 9001 quality standards
 Specifications are subject to change







2 Tunxis Road, Suite 209
 Tarriffville, CT 06081
 Telephone: (860) 217-9408
 website: www.ei-electronics.com

Model variations

Product	Short Description
EiA207W	Base model
EiA207DW	Base model with LCD display
EiA207iW	Base model with AudioLINK 
EiA207iDW	Base model with LCD display and AudioLINK 
EiA207RF	Base model with Ei Electronics RadioLINK ⁺ module fitted 
EiA207DRF	Base model with Ei Electronics RadioLINK ⁺ module fitted and LCD Display 
EiA207iRF	Base model with Ei Electronics RadioLINK ⁺ module fitted and AudioLINK  
EiA207iDRF	Base model with Ei Electronics RadioLINK ⁺ module fitted, LCD Display and AudioLINK  
EiA207RFZ	Base model with Z-Wave module fitted 
EiA207DRFZ	Base model with LCD display and Z-Wave module fitted 

LCD display

The LCD displays the level of CO detected, faults and recommended actions (see below table). The level of CO appears on the LCD as soon as 30ppm is detected.

CO Gas Level	Red LED	Display icon (before horn sounds)	Display icon (After horn sounds)	Horn/Sounder
< 30 ppm	Off*	Blank	Blank	Off
< 50 ppm	Off*	035 _{PPM}	035 _{PPM}	Off
> 50 ppm	1 flash every 3 secs	 070 _{PPM}	 070 _{PPM}	on within 60-240 mins (typ 90 mins)
> 110 ppm	2 flashes every 3 secs	 150 _{PPM}	 150 _{PPM}	on within 10-50 mins (typ 30 mins)
> 250 ppm	3 flashes every 3 secs	 750 _{PPM}	 750 _{PPM}	on within 4-15 mins (typ 9 mins)

* Unless it has alarmed previously
PPM values shown in table are for example purposes only



Ventilate



Evacuate



End of Life



Low Battery



Danger

AudioLINK[®]

Ei Electronics new AudioLINK feature is a means of extracting event data from the alarm to a specially design Smart Phone App. The phone application is specifically design to interpret the sound and convert it into meaningful event driven data.

RadioLINK⁺[®]

The EiA207RF Alarms communicate wirelessly with Ei Electronics Alarms and accessories via the preinstalled EiA200MRF module using our proprietary RadioLINK protocol .



The Alarm comes pre-fitted with a module using the Z-Wave protocol enabling the integration of the Alarm into your Z-Wave network

Wireless Module Battery Type	Powered from Alarm Battery
Frequency	@ 908.42MHz, FCC part 15
Wireless Range	up to 100m outdoor, 40m in buildings
Explorer Frame Support	Yes
SDK	6.51.6
Device Network Role	Sleeping Reporting Slave (SRS)
Device Type	Sensor
Routing	No
FLiRs	No

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