# Carbon Monoxide Alarm

## Mains 230V~ with Rechargeable

## Battery back-up



### **Rediction** Wireless Interconnection

#### Model Ei262 CO Alarm

- Wireless interconnection to RadioLINK smoke, heat & CO
- Tamper-proof rechargeable Lithium battery back-up
- **RF Remote Control Capabilities**
- Proven electrochemical sensor
- Unique easy to replace sensor module
- Memory feature records if CO has been detected
- Easy to use Test/Hush button
- Easi-fit base
- Pre alarm LED gives early warning of CO
- Loud distinctive alarm sound (85 dB(A) at 3 metres)
- Power, alarm and fault indicator lights
- Kitemarked to BS EN 50291:2001
- 5 Year Guarantee



#### **Product Description**

The Ei262 is a Carbon Monoxide (CO) alarm powered by 230V AC mains. The rechargeable Lithium back-up cells are designed to have a ten-year life and outlast the life of the CO alarm. They will provide up to 4 weeks of CO alarm operation without mains power.

The alarm uses a high performance electrochemical sensor to sense CO presence. The sensor can be replaced after 5 years to provide a combined 10 year protection against CO gas.

The alarm has RadioLINK interconnectivity which enables wireless transmission of a CO alarm condition to all other wireless CO, smoke and heat alarms in the

The alarm also has RadioLINK Remote Control capability - allowing the alarm to be controlled remotely from a Control Switch (Ei412). This allows remote Test, Locate and Silence functions to be performed on all RadioLINK alarms in the system. A Manual Call Point (Ei407) is also available.

The alarm is supplied with an Easi-Fit base that allows quick and simple installation of the alarm, combined with simple removal and replacement. The Easi-Fit base automatically connects both mains power and battery back-up as the alarm slides on to the base.

#### **Operation**

- The green indicator will illuminate to show mains power is present
- When in alarm, the Ei262 will send an alarm signal to all other RadioLINK enabled smoke, heat and CO alarms that have been House Coded together. (only the triggered alarm will flash a red indicator)
- The horn will sound and the red indicator will flash at different speeds to indicate the presence of various levels of CO gas - see
- The horn will beep and the amber indicator will flash every 40 seconds to indicate a fault on the sensor
- The horn will beep every 40 seconds to indicate the battery back up is depleted and needs recharging
- The "Test/Hush" button will either silence false alarms (if briefly pressed) or perform a unit self test (if pressed and held). Note that the alarm cannot be silenced when sensing a CO level of 300ppm or above
- Memory Feature after the unit has been in alarm, the red indicator will flash every 40 seconds at a rate indicating the CO level previously detected. Pressing the "Test/Hush" button will also cause the red indicator to flash at a rate specific to the previously sensed CO level.



#### **Model Ei262 CO Alarm**

#### **Technical Specification**

- 1. The CO Alarm carries the BSI Kitemark to indicate type testing to BS EN 50291:2001. It is CE marked to indicate conformance to Low Voltage and Electromagnetic Compatibility Directives.
- 2. New generation electrochemical cell type Carbon Monoxide sensor checks CO level every 70 seconds. Each unit is calibrated and tested in CO gas to ensure accuracy. Sensor module plugs into back of unit and should be replaced after 5 years. The amber 'Fault' light will flash once every 40 seconds (without a beep) to indicate the sensor should be replaced. Replacement sensor modules, Ei261MEN, are readily available at modest cost. Does not require an electrician to change the sensor.
- 3. High level of selectivity. No false alarms when exposed to the following interference gases for 2 hours: (as per UL2034sec.38) Methane 500ppm, Butane 300ppm, Heptane 500ppm, Ethyl Acetate 200ppm, Isopropyl Alcohol 200ppm and Carbon Dioxide 1000ppm.
- 4. 230V AC, 50Hz mains powered. Supplied complete with sealed-in tamper proof Rechargeable Vanadium Pentoxide Lithium standby cells, designed to last at least 10 years without the need for replacement and can power the unit for a minimum 30 days in the event of mains failure. The rechargeable cells are monitored and if they start to be depleted (i.e. with mains off) or if they become defective the unit will beep every 40 seconds. The cell manufacturer has endorsed a minimum 10 yr life expectation for the rechargeable cells.
- 5. Supplied with an 'Easi-fit' surface mounting plate, with integral terminal block, cable cover and fixing screws. Terminal block is permanently fitted to mounting plate. Built-in rechargeable cells connect automatically as unit is slid on to mounting plate. Conduit (up to 25 x 16mm) can be attached to the top or bottom of the unit for surface wiring. Ceiling or wall mountable.
- 6. Interconnection capability such that if one alarm sounds all interconnected alarms sound. Up to 12 units can be interconnected. Additionally, can be interconnected with 2100 and 160RC Series smoke and heat alarms (on Ei168RC RadioLINK Bases) provided an Ei412 Remote Control Switch is used.
- 7. On first power up the Red and Amber LED's flash once; after 2 minutes settling, the unit operates normally.
- 8. Green LED indicator light confirms integrity of mains power supply.
- 9. Low and high level indicators red LED indicator light flashes every 2 seconds at 50ppm CO (sounder operates within 60-90 mins); flashes twice every second at 100ppm CO (sounder operates within 10-40 mins); flashes 4 times per second at 350ppm CO (sounder operates within 3 minutes).
- 10. Fault indicator amber LED flashes and horn beeps every 40 seconds if a fault is detected.
- 11. Manual test/hush button test button to test circuitry and horn. Pressing and releasing the test button when the unit is sensing CO will silence the alarm for 4 minutes. It will only silence once until the gas clears. At 300ppm CO the unit cannot be silenced due to the increased danger.
- 12. Remote test facility via Ei412 Remote Control Switch to test circuitry, sensor and horn (red LED on alarm cover will flash rapidly) and to activate all interconnected alarms in the system. See separate specification sheet for more information on this option.
- 13. Quick CO Gas Test reduces the time for testing with CO from at least 4 5 minutes to less than 10 seconds.
- 14. Memory feature pressing test button records if CO has been detected during a period of absence: red LED off no CO recorded; Red LED flashes twice (every 40 seconds) 50ppm CO recorded. Red LED flashes 4 times (every 40 seconds) 100ppm. Red LED flashes 8 times (every 40 seconds) 300ppm CO recorded. Pressing the test button for 20 seconds resets the memory.
- 15. Built in sounder to give a minimum output of 85dB(A) at 3 metres. Modulated sound output 3 rapid pulses followed by a 1½ second pause, repeated until reset. This easily differentiates it from a typical smoke alarm.
- 16. Automatic reset facility of alarm test when button is released, and after an alarm state when CO gas clears.
- 17. Tamper resistant cover, which cannot be removed from mounting plate without releasing catch with a small screwdriver. An optional locking screw can be screwed into the side to prevent removal. The rechargeable cells are not suitable for use with other products and are soldered on to the circuit board.
- 15. Radio frequency: 868 MHz band in accordance with R&TTE Directive 1999/5/EC this band has been designated for use with security products and only allows a 1% duty cycle, so continuous transmission and interference from external sources is extremely remote, and would be illegal.
- 16. Range: the type of building will be the major limiting factor e.g. the number and type of walls/ceilings that the radio signal has to pass through. As a quide, 30m should be the maximum distance between any of the alarms in the system.
- 17. Up to 20 units can be used in one system. For larger systems contact our Technical Service Department for guidance.
- 18. Units are in factory code when received (they will all communicate with each other). They must be 'House Coded' to eliminate the risk of adjacent properties communicating with each other. After House Coding they will only communicate with other units coded at the same time.
- 19. House code: operate the 'House Code' switch on all alarms in the system. The Green mains power LED will flash red. Each base will 'learn' the serial numbers of all units in the system. The units will return to normal standby mode automatically after 30 minutes, or pressing the 'House Code' switch again on any alarm in the system will return all alarms in range to normal standby immediately. Separate zones can be created within blocks of flats and other large buildings. These zones will not communicate with other 'House Coded' zones in the same building, eliminating problems of nuisance alarm affecting all dwellings. If interconnection is required between dwellings, the need to cross property boundaries with mains/interconnect cables is eliminated.
- 20. Repeater function: where distance or obstructions cause range restrictions, the Ei262 has a built-in multi-level repeater. On receiving an RF signal from another alarm, the unit will automatically re-transmit the signal to other alarms in the system. This provides multiple signal paths to give a strong and robust system.
- 18. Remote 5 Amp relay (Ei428) available as an optional extra, switchable for constant or pulse operation for use with a solenoid gas shut off valve, or for signaling a remote device.
- 19. Operating temperature range: -10°C to +40°C (14°F 104°F). 15% to 95% relative humidity (non-condensing).
- 20. Dimensions: 126mm x 150mm x 42mm. Weight: 350g.
- 21. 5 Year Guarantee.
- 22. Manufactured in Ireland.



Mile End Business Park, Oswestry, Shropshire SY10 8NN E & OE Our policy is one of continuous improvement.

Tel. 0870 758 4000

Fax. 0870 758 4010

www.aico.co.uk

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