

# Ei414 Fire/CO Alarm Interface

**For Warden Call and other Telecare systems.**

## Key Features

- The Ei414 enables our Smoke, Heat and CO Alarms to connect via wireless RadioLINK with Warden Call and other telecare Systems.
- Powered by either mains 240VAC or 11-30V DC external source.
- Rechargeable Battery back up
- Volt free contacts outputs (NO & NC) for Alarm (Fire and CO) messages and fault messages
- 3 position key switch for On (normal mode), Test (check alarms & communications) and Off (communications off)
- Blue led to indicate RF activity
- Green led to indicate mains power present
- Red leds to indicate fire, CO or fault relay activation
- RadioLINK multi-repeater and multi-path functionality.
- RF performance to EN300 220-1
- EMC performance to EN301 489-1
- Unique system coding feature
- 5 year Guarantee

## Product Description

The Ei414 Interface Module provides either a wireless interface via RF or a hard wired interface via a special link cable between an Ei Electronics RadioLINK Alarm system and a Warden Call or telecare System.

A RadioLINK system consists of RadioLINK Smoke, Heat and CO Alarms along with RadioLINK accessory devices that are interconnected using the proprietary RF protocol system. The Ei414 must be house coded to the other RadioLINK devices in the system.

The Ei414 decodes RF "Fire" and/or "CO" signals from the RadioLINK devices and activates the relevant onboard relays. The relays must be wired to the (universal) RF transmitters or via a special link cable to the Warden Call Systems. The Warden Call system in turn is programmed to perform the desired function, on receipt of these signals.

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## Product Description

The Ei414 can deliver either a pulse signal or a continuous switched signal via the relays to the universal transmitters. A dip switch also provides delayed timed response. The specific signal type will be determined by the requirement of the OEM universal sensor.

The Ei414 contains x3 mains rated relays (rated up to 250V AC / 5 Amps). The relay contacts operate on mains power, or on battery backup cells in the event of a mains failure.

The Ei414 has a keyed 3-way position switch. In the "on" position, the Ei414 will respond to a "Fire" or "CO" signal. In the "off" position, the Ei414 will not respond to any RadioLINK signals. In the "test" position, the Ei414 will only respond to a "button test" signal or a "repeated remote test signal (e.g. from an Ei450 or Ei412)". On receipt of button test signal, the relevant relay (fire or CO) will activate. On receipt of a repeated remote test signal, the fire relay will activate.

The Ei414 uses RadioLINK multi-repeater, multi-path technology to deliver very robust and reliable RF signal coverage. While designed primarily to interface with a Warden Call or similar telecare System, the versatility of the Ei414's electrically isolated contacts means it can be used to switch many other OEM devices.

### Technical Specification

|                      |  |
|----------------------|--|
| Supply Voltage:      | 230V AC or 10-30V DC Mains Power.                        |
| Current Rating:      | TBD  |
| Operating Frequency: | 868.499 MHz  |
| RF Range:            | Over 100 meters in free space                            |
| RF Visual Indicator: | Blue light indicates RF activity                         |
| Power Indicator:     | Green light indicates Power present                      |
| Alarm Indicator:     | Red light for Fire (marked)<br>Red light for CO (marked) |
| Service Indicator:   | Red light (marked)                                       |
| RF Frequency:        | 868.499 MHz  |
| Mounting:            | Can be easily mounted onto a wall.                       |
| Guarantee:           | 5 Years  |

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|--------------------|---|
| Outputs:           | Fire Alarm Relay (NO/NC)<br>CO Alarm Relay (NO/NC)<br>Fault Alarm Relay (NO/NC) |
| Relay Contacts:    | All relays are rated 250VAC @ 5 Amp.<br>Resistive                               |
| Temperature Range: | 0°C to 40°C<br>Storage - 0 to 35°C (in a dry area)                              |
| Humidity Range:    | 15% to 95% Relative Humidity<br>non condensing                                  |
| Dimensions:        | 185mm x 90mm x 37mm   |
| Weight:            | 300g  |
| Performance:       | Designed to comply with R&TTE,<br>EMC and LV Directives                         |

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