Panel Interface Module

12V to 24V DC Powered

RadioLINK® PROFESSIONAL **Wireless Communication**

Model Ei413

- Stand alone unit designed to interface Fire Alarm Panels and Security Panels with RadioLINK Wireless Alarms   Accessories
- Visual RF transmission and power indicator
- Powered by 11 to 30V DC supply (power supplied from panel or other source)
- Three sets of Volt-Free contacts for Fire Alarms, CO Alarms and fault signals
- One Volt-Free Normally Open Contact for RadioLINK fire or test signal
- Unique "House Coding"
- RF performance to EN 300 220-1 in accordance with EN300 220-2
- EMC performance to EN301489-1 referencing EN 301489-3
- 5 year guarantee

Product Description

The Ei413 is a RadioLINK Panel Interface Module that provides an interface between RadioLINK alarms and accessories and Fire Alarm/Security Alarm Panels

The module will decode 'Fire', 'Carbon Monoxide (CO)' and 'Fault' signals from RadioLINK devices and activate the relevant onboard relay contacts. The relays are wired to the input contacts on the Panel which will take appropriate action

When the Normally Open Input contacts (or DC Voltage input) are activated (from the panel) the module will transmit a RadioLINK signal to the alarms in the system to activate them (all alarms will sound)

The module is powered either directly from the panel or from an external source (it requires a 11 to 30VDC power supply)

The module uses advanced transceiver and signal coding technology to ensure robust and reliable RF signaling. It also has a "House Code" feature that allows a system of RadioLINK units to be coded together to prevent interference with neighbouring systems

It is designed to be remotely sited and comes complete in its own enclosure

Operation

- On receiving a Volt-free switched hardwired signal from the panel, the module will transmit a RadioLINK alarm signal to activate the alarms in the system

- If a Fire Alarm has activated, the module will recognize the signal as a Fire and switch the relevant contacts to activate the panel

- If a Carbon Monoxide (CO) Alarm has activated, the module will recognize the signal as a CO leak and switch the relevant contacts to activate the panel

- It is possible to configure the wiring of the Fire and Fault relay contacts so that the Fire Alarm/Security Alarm Panel may indicate Fire and Fault conditions (consult the panel manufacturers End of Line (EOL) terminations if choosing this configuration

- The unit can be "House Coded" by activating the House Code switch. The indicator will flash blue to indicate that the unit is sending out its unique House Code

Technical Specification

1. For use with Ei Professional Ei605TYWRF RadioLINK Optical Smoke Alarms, Ei603TYCRF RadioLINK Heat Alarms and Ei208WRF/Ei208DWRF RadioLINK Carbon Monoxide (CO) Alarms.

2. Eliminates the need for any cabling between the Ei413 and the Smoke/Heat/CO alarms used in the system.

3. The Ei413 is conformant to EN300220-1 (RF Performance) in accordance with EN300220-2 and EN301489-1 (EMC) referencing EN301489-3.

4. The unit is powered from the alarm panel and requires 11 to 30VDC. Unit current rating: 15mA (Standby), 60mA (Alarm Max).

5. The unit has three sets (Normally Open, Normally Closed and Common) of built-in wiring contacts for connection to the panel (rated at 30V @ 1 Amp). On the contacts closing, the unit will (dependant on which set of contacts are connected) indicate a Fire, CO leak or fault to the panel. The unit also has a Normally Open volt-free set of contacts to link from the panel to it, so if the panel is activated, the unit will transmit a RadioLINK signal to the alarms in the system to activate them (they will sound).

6. Radio frequency: 868MHz 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.

7. Up to 12 RadioLINK units can be used in one system. Range may be a limiting factor (see point 7).

8. RF 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 guide, 30m should be the maximum distance between any of the RadioLINK units in the system.

9. 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 RadioLINK units coded at the same time.

10. House Code: operate the 'House Code' switch on all RadioLINK units in the system – see the instructions supplied with the other RadioLINK units being used. The LED indicator on the front cover of the Ei413 will flash blue slowly: this indicates that it is transmitting its unique serial number to all other RadioLINK units in 'House Code'. After a short time the unit will flash to indicate the number of units in the system (2 flashes = 2 units, 3 flashes = 3 units etc.). The Ei413 will return to normal standby mode automatically after 15 minutes. Pressing the 'House Code' switch again will return it to normal standby immediately.

11. Designed for surface mounting or can be fitted into certain alarm panels provided the casing is not of metallic construction which may restrict RF signals.

12. Dimensions: 88mm x 88mm x 28mm. Weight: 150g.

13. Ambient Temperature Range: 0°C to 40°C.

14. 5 year guarantee.

15. Manufactured in Ireland.

Europe's Leader in Residential Fire + Gas Detection
Ei Electronics, Shannon, Ireland

Made in Ireland