Ei Electronics®
fire + gas detection

Ei414 - Fire/CO Alarm Interface

RF Wireless Interconnection
Powered by 230VAC or 11-30VDC

RadioLINK®

Key Features

- For **warden call/telecare systems**
- 3 position key switch for On, Test and Off
- 3 volt free contacts outputs (NO/NC) for Fire alarm, CO alarm and fault signals
- One volt free contact input (Active Closed)
- One 12-24V DC contact input (Active High)
- Visual Fire, CO, fault and RF transmission indicators
- Unique house coding feature
- Rechargeable Battery back up
- Continuous or pulse mode
- 5 year Guarantee

Product Description

The Ei414 provides an interface between an Ei Electronics RF system and an external device such as a panel, a warden call or telecare system. An RF system consists of Ei Electronics Alarms and accessory devices that are linked using a proprietary RF protocol. The Ei414 must be coded to the other RF devices in the system.

The Ei414 can be powered by either 230VAC or 11-30VDC and has a Lithium battery back-up which will provide power supply for up to 4 weeks in case of power failure.

The Ei414 decodes “Fire”, “CO” and “Fault” signals from the RF devices and activates the relevant relay.

The contact inputs (whether the voltage free or the DC voltage is used), when activated, will result in the Ei414 transmitting a wireless Alarm signal that will sound all the Alarms in the RF system

The 414 contains a dip switch which specifies whether it delivers a pulse signal or a continuous signal to the Fire and CO Relays. It also determines whether a hard-wired trigger input will activate the fire relay or not.

The Ei414 has a 3 position key switch. In the “**off**” position, the EI414 will not respond to any RF signals received. In the “**on**” position, the Ei414 will respond to any RF signal received (except Test). In the “**test**” position, the Ei414 will respond to a “button test” signal.

The Ei414 uses advanced radio transceiver technology with unique software coding to transmit, receive and repeat the RadioLINK RF protocol. This ensures a robust “mesh” of RF signals and reliable paths of communication. The house coding feature confines the RF communication to designated devices only, thereby avoiding the inadvertent activation of neighbouring alarm RF systems.

Important: Ei Electronics devices are not designed to fulfil a critical component of a BS5839-1 system’s requirements such as sound pressure level in a property, or to form a necessary component of an evacuation or other life safety procedure.

Technical Specification

Product life:	10 years
Supply Voltage:	230VAC or 11-30V DC
Battery back-up:	Rechargeable Lithium battery (non-replaceable)
Outputs:	Contacts rating: 250VAC, 5A resistive Fire Alarm Relay (NO/NC) CO Alarm Relay (NO/NC) Fault Alarm Relay (NO/NC)
Input:	2 options: Volt Free contact or 12-24VDC
RF Frequency:	868MHz (1% duty cycle)
RF Power:	+7dBm
RF Range:	> 100 Metres in free air [1]
Protocol type:	Mesh architecture
RF Protocol:	RadioLINK
System size:	Up to 12 RF devices [2]
Visual indicators:	**Green LED** - Power **Red Led -** Fire / CO Alarm & fault (service icon) **Blue LED** - RF transmission
Normal Operating and Storage Temperature:	Range -10°C to 40°C [3]
Normal Operating and Storage Humidity Range	15 % to 95 % Relative Humidity (non-condensing)
Plastic material:	UL94VO Flame retardant
Fixing:	Key and Screw fixing supplied
Dimensions:	Product - 190mm x 90mm x 40mm Package - 198mm x 97mm x 44mm
Weight:	375g (Pack +50g)
Warranty:	5 year (limited) warranty
Approvals:	CE Compliant with Radio Equipment Directive 2014/53/EU

Manufactured to ISO 9001 quality standards
Specifications are subject to change

1. Obstructions of any sort will result in a reduction in range from the free space specification. The range may vary depending on installation.

2. Please contact us for further advice if additional RF devices are required.

3. Temperature and Humidity conditions are for normal operation and storage. Units will function outside these ranges as required by the specific product Standards. Extended exposure to conditions outside these ranges can reduce product life. For advice on prolonged operation outside these ranges consult the manufacturer.

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