

Radio Frequency Alarm

BATTERY POWERED 9V
RF Communication

Model Ei3100RF Ionisation

- RF wireless interconnect
- Unique house coding feature
- Visual RF transmission indicator
- High performance ionisation chamber
- Test button
- Advanced suppression and calibration technology
- Radio transmitter and receiver in each alarm
- Low power cell warning
- Kitemarked to BS EN 14604:2005
- 5 year guarantee



Product Description

The Ei3100RF is an Ionisation Smoke Alarm that runs on 9V alkaline battery and is part of the Radio Frequency range of smoke alarms. The RF signal will wirelessly interconnect the Ei3100RF to other RadioLINK products

The Ei3100RF uses advanced radio transceiver technology with unique software coding to transmit and receive the radio signals. The transmissions are frequency modulated (FM) and use Manchester coding to ensure robust signal integrity and avoid signal noise interference

The Ei3100RF has other advanced features such as high performance ionisation chambers, as well as the ability to wireless interconnect up to twelve alarms to allow all alarms to sound if just one of the interconnected alarms should be triggered.

The Ei3100RF has built in circuitry to aid suppression of voltage transients and RF interference to further reduce the chances of false alarms under such conditions

Operation

- In normal standby mode the amber indicator will light to indicate transmission of an RF signal
- In code mode, the amber indicator will flash to indicate the number of other RF alarms that have been "learned" in the system
- The red indicator will flash rapidly to show an alarm condition for the smoke detector
- When interconnected to other Ei mains powered alarms, an alarm on one detector will trigger all other interconnected alarms within one second (only the triggered alarm will flash a red indicator)
- The smoke detector will emit a beep and the red light flashes every 40 seconds to indicate that the battery is depleted and needs to be changed

Model Ei3100RF Optical

Technical Specification

Sensor	Ionisation	Power-On Indicator:	Red light flashes every 40 seconds
Sensitivity:	Complies with BS 5446 Part 1: 2000	Alarm:	Electronic Piezoelectric horn
Supply Voltage:	9V alkaline battery	Alarm Sound Output:	85dB (minimum) at 3m
RF Range¹:	150 meters (min) free space	Alarm Status:	Red LED flashes every second on unit sensing fire
RF Visual Indicator:	Amber light flashes continuously for 1.5 to 3.5 seconds while transmitting RF signal	Temperature Range:	0 ⁰ to 40 ⁰ C
RF Frequency:	868.499MHZ (1% duty cycle)	Humidity Range:	15% to 95% Relative Humidity
RF Power:	+5dBm	Interconnect:	Up to 12 RadioLINK products
Dimensions:	140mm x 120mm x 45mm	Plastic material:	UL94HB flame retardant
Weight:	190g	Warranty:	5 year (limited) warranty
		Approvals:	Kitemarked to BS EN 14604: 2005, CE Approved

1. Any obstructions of any sort will result in a reduction in range from the free space specification. As such, the actual range will vary depending on installation.

Specifications are subject to change

Installation & Placement



Place the alarm on the ceiling/wall and mark the screw holes. Drill with a suitable drill bit, insert the screw plugs and screw the alarm into position. Simply connect the battery on the alarm and slide into position on the mounting plate.

The RF alarms should be house coded to prevent possible interference from neighbouring installations – see instructions for more details.

Alarms should be placed in accordance with the general guidelines shown in the diagram above. These recommendations are based on the problem of areas of “dead air” close to corners of rooms and apexes of ceilings, which could result in the prevention of smoke reaching the smoke detector

House Code Procedure

1. Connect the battery
2. Press the house code switch until the amber light turns on and then release
3. Similarly, place other alarms into house code mode
4. Check that the number of amber flashes (on each alarm) corresponds to the number of alarms in your system
5. Remove all alarms from house code
6. Button test each alarm to check your system