Ei Electronics®
fire + gas detection

Ei650iRF - Intelligent Optical Smoke Alarm

Wireless Interconnect
10 Year Lithium Battery

Key Features

- High performance optical sensor
- Automatic dust compensation
- AudioLINK data download
- Wireless interconnect
- Easy install twist-on base
- Large easy to use Test/Hush Button
- Alarm ramp up in Test mode
- Built in sounder - 85dB(A) at 3 metres
- Specific Fault Led
- Records previous alarm activation
- 5 Year guarantee

RadioLINK+®

AudioLINK®

Product Description

The Ei650iRF optical Smoke Alarm is fitted with a proprietary photoelectric sensor to quickly sense low energy smoke particles. This optical Alarm is sensitive to all domestic fire types but is especially sensitive to smoldering fires.

The Ei650 range features a high performance optical chamber protected by a sealed mesh screen to reduce insect and dust contamination and EMC protection to reduce false alarms. In addition the Ei650iRF has an automatic **dust compensation** feature reducing further the risk of false alarms caused by dust build up.

The Ei650iRF communicates wirelessly via its preinstalled Ei600MRF **RadioLINK+** module with compatible Ei Electronics Alarms and accessories. Up to 12 RF devices can be interconnected.

The AudioLINK feature facilitates acoustic download of the Alarm parameters and status using the Ei Electronics AudioLINK app.

For better hearing comfort, the sound level of the alarm increases progressively in Test mode. The Test button can also be used to silence nuisance alarms (e.g. cooking fumes) for a 10 minute period and fault beeps for 12 hours (low battery and sensor fault).

The Ei650iRF self-checks its chamber sensor, battery voltage and internal circuitry every 40 seconds. Any fault condition found will be indicated by a combination of Yellow LED flashes and sound beeps.
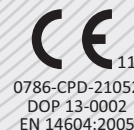
The Ei650iRF is designed with advanced diagnostics to help pre-warn of possible impending fault conditions.

The Alarm has a twist on mounting base which has multiple fixing points so it can be easily installed. The alarm is not powered until it is twisted onto the mounting base, thus avoiding battery power consumption during storage and prior to installation.

Technical Specification

Sensor Type:	Photoelectric
Product life:	10 years
Supply Voltage:	3V Lithium Battery (non replaceable)
RF Frequency:	868MHz band (1% duty Cycle)
RF Power:	+10dBm
RF Range:	> 100 Metres in free air [1]
Protocol type:	Mesh architecture
RF Protocol:	RadioLINK+
System size:	Up to 12 RF devices [2]
Sound Level:	85 dB(A) at 3m
Button Test:	Checks sensor, electronics, battery and horn
Silence function:	Silences alarm for 10 minutes
	Silences fault beeps for 12hrs
Data download:	Via the AudioLINK app or the EiUSB1
Adv. diagnostic:	Included
Visual Indicators:	**Red LED:** power up, alarm, hush and memory
	Yellow LED: on power up and fault
	Blue LED: RF Transmission
Memory Feature:	Records last alarm event
Insect screen:	Fine Mesh
Fixings:	Screw fixings and mounting plate supplied
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:	UL94HB
Dimensions:	Product - 115mm x 45mm
	Package - 150mm x 120mm x 56mm
Weight:	210g (pack +50g)
Warranty:	5 year (limited) warranty
Approvals:	

CE 11
0786-CPD-21052
DOP 13-0002
EN 14604:2005

VdS
G211009

Complies 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 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.

E & OE As our policy is one of continuous product development, we reserve the right to alter product details without prior notice.