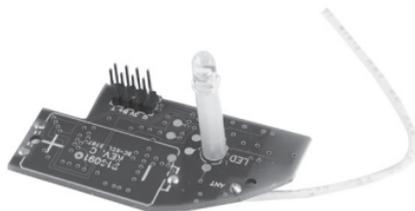


RF Module for Battery Powered Smoke & Heat Alarms Ei600 Series



Ei605MTYRF Module



Ei605MRF Module

(see Table 1 for model compatibility)

Read and retain carefully for as long as the product is being used. It contains vital information on the operation and installation of your Smoke Alarm. The leaflet should be regarded as part of the product.

If you are just installing the unit, the leaflet must be given to the householder. The leaflet is to be given to any subsequent user.

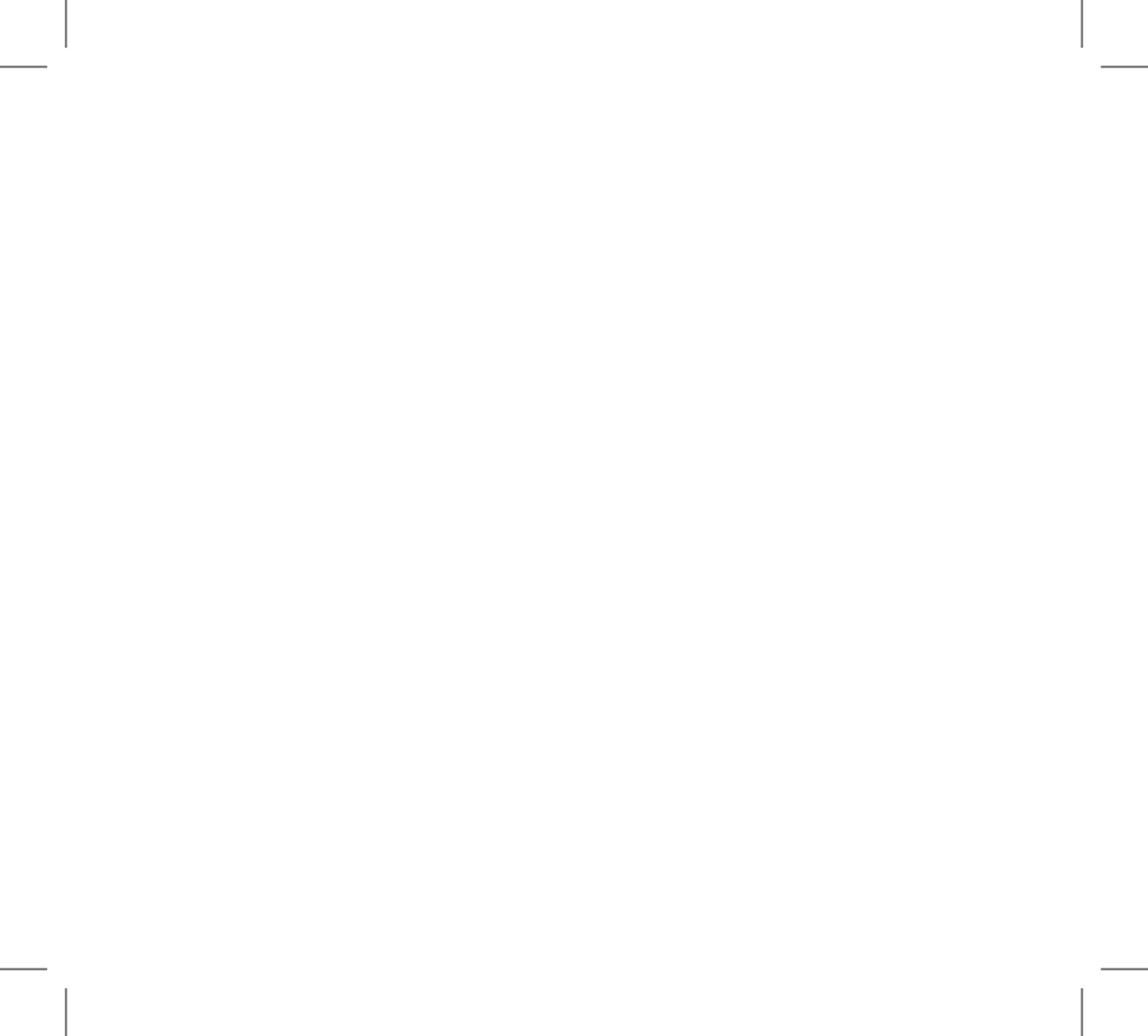


Table 1**9V Replaceable Battery**

Model	Alarm Type	Hardwired Interconnect	RF Capability Supplied	Optional RF Module Model No.
Ei605	Optical	No	No	None
Ei605C	Optical	Yes	Yes	Ei605MRF
Ei603C	Heat	Yes	Yes	Ei605MRF

10 Year Lithium Battery Built-in

Model	Alarm Type	Hardwired Interconnect	RF Capability Supplied	Optional RF Module Model No.
Ei605TY	Optical	No	No	None
Ei605TYC	Optical	Yes	Yes	Ei605MTYRF
Ei605TYW	Optical	No	Yes	Ei605MTYRF
Ei603TYC	Heat	Yes	Yes	Ei605MTYRF

Note: Certain Alarms may be supplied (on request) with the appropriate RF module fitted

Introduction

Congratulations on purchasing an Ei600 Series RF RadioLINK module. These RF modules can be easily installed in the Ei600 Series Alarms to provide you with an RF interconnected fire warning system – when one Alarm senses fire and sounds a warning, all the other Alarms will also sound a warning. This helps to ensure the alarm sound will be heard throughout the property. (see Table 1 for compatibility).

Installation

1. The Ei600 Series Alarm must be installed as per the guidance in the instruction booklet '**Battery Powered Smoke & Heat Alarms**'.
2. Remove the RF module from the packaging and using the pull tag, carefully insert into the back of the Alarm (see figure 1) - (some Alarm models may have the RF Module already fitted).
3. Ensure that the battery is connected in the 9V Replaceable Battery Models.

House code the Alarms as follows:

4. Before fitting the Alarm to the mounting plate, press and hold the 'House Code' switch on the rear of the RadioLINK module until the red light comes on (see Figures 2a) and then release.
5. Twist the Alarm onto its mounting plate.
6. Similarly press and hold the House Code switch on the second Alarm until its red light comes on and then release. Twist the Alarm onto its mounting plate. Put all the remaining alarms into House Code mode similarly and attach to the mounting plate in the same manner in less than 15 minutes. (They automatically exit house code mode after 30 minutes).

INSERT RF MODULE BY PLUGGING IN PINS & ALSO INSERT ITS ANTENNA IN THE HOLE PROVIDED - HOLD BY PULL TAG AND GENTLY PUSH UNTIL FULLY INSERTED

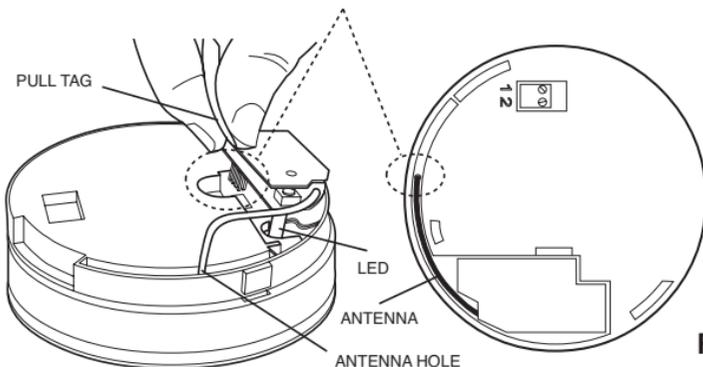


Figure 1

7. When in the House Code mode, the blue light (on the front of the Alarm - see figure 2b) will flash a number of times every 5 seconds to indicate:

- (a) that the Alarm is in House Code mode,
- and
- (b) the number of Alarms that have been identified and *added* to your system.

For example with 3 Alarms in your system, you should see 3 blue light flashes every 5 seconds, with 4 Alarms in your system you should see 4 blue light flashes and so on, (with the 10th unit, the blue flash is longer, to help with the counting).

Check that the number of blue light flashes corresponds to the number of Alarms in the system. If not see the “RadioLINK Troubleshooting” section below.

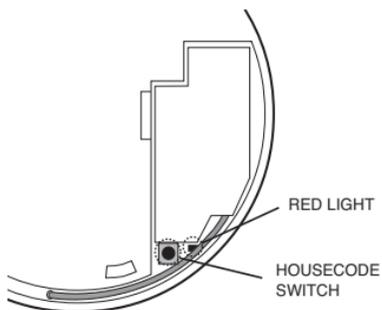


Figure 2a

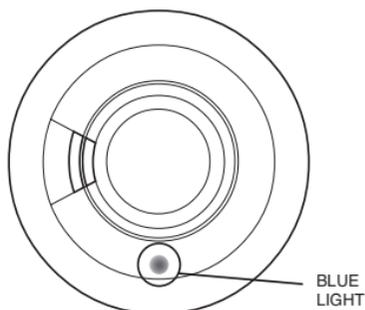


Figure 2b

8. The Alarms will stay in House Code mode for 30 minutes and then reset automatically. Alternatively they can be taken out of House Code mode by removing one Alarm from its mounting plate and quickly pressing and holding the House Code switch until the red light comes on solidly again. Release the switch and the red light will go out immediately, indicating that the Alarm is no longer in House Code mode. Replace the Alarm on the mounting plate. The blue light will no longer be flashing.

Note: As this Alarm exits house code mode it sends a radio message to all the other Alarms to exit the house code mode. Check that all the blue lights on the rest of the Alarms have ceased flashing. (Accessories must be taken out of house code manually - see their instructions).

9. Button test all Alarms in turn and check all the other Alarms are sounding at the same time. If they are not all communicating see section below “RadioLINK Troubleshooting”.

Additional RadioLINK Alarms can be added to the system at any time. Simply put **all** the Alarms into the House Code mode at the same time and again check the number of blue light flashes on each Alarm.

RadioLINK Troubleshooting

It is imperative that all Alarms in your system communicate with each other. The number of walls, ceilings and metal objects in the signal path reduces the strength of the RadioLINK signals between the Alarms. Accordingly, one or more Smoke / Heat Alarms may have difficulties in communicating to all the other Alarms in the system.

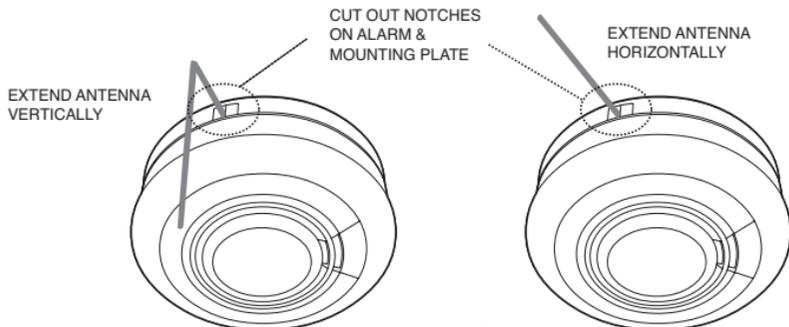


Figure 3

If, when checking the RadioLINK interconnection, some of the Alarms do not respond to the button test, then you will need to either:

(i) Position another RadioLINK Alarm to act as a 'repeater' (see Interconnection with RadioLINK Modules below) between the units which are not communicating

and so shorten the path and/or by-pass an obstacle which is blocking the signal. When the new Alarm is fitted, house code all Alarms again, as described above.

(ii) Remove the module and extend the antenna vertically (or horizontally) as shown in figure 3. (For maximum RF signal strength orientate all the antennas in the same direction - see Figure 4).

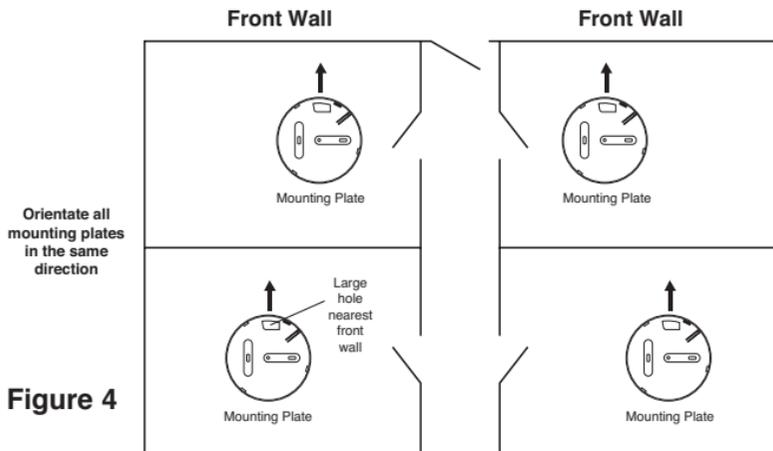


Figure 4

(iii) rotate / re-locate the units (e.g. move them away from metal surfaces or wiring).

After making these changes to the RF signal path, the RadioLINK signals may still not be reaching all the Alarms in your system, even though they have already been House Coded successfully. (see Section on "**RadioLINK Limitations**").

It is important to check that all Alarms are communicating in their final installed positions. If Alarms are rotated, have had their antennas extended and/or resited, we would recommend that all the Alarms are returned to the factory settings and then House Coded again in their final positions (see above). The RadioLINK interconnection should then be checked again by button testing all units.

(Note: The RadioLINK module can be returned to the original factory settings by pressing and holding the House Code switch until the red light turns on solidly. Keep holding for approx. 10 seconds, until the red light turns off, then back on solidly. You immediately release the switch at this point and the red light will now flash several times. This clears the house codes that have been learnt).

Interconnection with RadioLINK Modules

A combined maximum of 12 **Alarms with RF RadioLINK Modules** may be interconnected so that if one of the Alarms senses fire, and sounds a warning, all the other Alarms will also sound a warning. This helps to ensure the alarm will be heard throughout the property.

As a safety feature, the Alarms as supplied, will all communicate with each other using the default RF signal. However, to avoid other neighbouring systems setting off your Alarms and vice versa, we recommend that you “House Code” your Alarm system.

Another very important reason for house coding is that after the Alarms are house coded, they all act as “repeaters” i.e. they repeat the messages from other Alarms and so greatly improve the reliability and range of the radio communication.

Note: These Alarms should be interconnected only within the confines of a single family living residence. If they are connected between different residences there may be excessive nuisance alarms. Everybody may not be aware that they are

being tested or that it is a nuisance alarm caused by cooking etc. Depending on the Alarm models you purchased, the RadioLINK module may have been supplied with the unit or you may have to purchase it separately. When fitting or removing the RadioLINK module, please hold using the pull tab attached to it. Also tuck the tab between the Alarm housing and the module when it is installed in order to avoid it being fouled up with the mounting plate.

Testing

Your Alarm is a life saving device and should be checked periodically. Regularly check that the red light on the Alarm flashes approx once a minute to show the units are powered. Replace the Alarm if the flashing stops.

Manually Testing your Alarms

It is recommended that you test your Alarms after installation and then at least weekly to ensure the units are working. It will also help you and your family to become familiar with the sound of the Alarms.

- Press and hold the Test Button until the Alarm sounds and the red light flashes
The Alarm will stop sounding shortly after the button is released.
- If they are interconnected using RadioLINK modules, hold down the Test button until the blue light on the cover of the Alarm illuminates. Check that all other Alarms sound.
- Release the Test button. The Alarm and all connected Alarms should stop sounding.
- Repeat this procedure for all other Alarms in the system.

WARNING: Do not test with flame.

Low Battery Indicator

If the blue LED (see figure 2b) on the Ei605MTYRF flashes once every 10 seconds it indicates that the RF module battery is depleted and the RF module must be replaced.

Beeping in RF System

One of the features of Ei RadioLINK & RadioLINK⁺ systems is that if there is a fault either in the Alarm itself, or in the RF module fitted, a beep will be transmitted around the system every 4 hours. Depending on the Alarm type, the beep may just be a short beep or it may be a 2 second alarm. If your RF system is demonstrating this, you have a fault either in 1 of your Alarms or in 1 of the RF modules fitted.

In order to find the problem unit, please visually check each Alarm. The fault will be indicated on the Alarm through a combination of beeps or flashes within a 60 second period. (see individual Alarm booklet for indicators).

N.B. When replacing Alarms or modules, please remember to housecode and test the system again.

RadioLINK Limitations

Limitations of RadioLINK Radio Frequency Signals

Ei Electronics radio communication systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by regulatory bodies) there are some limitations to be considered:

- (i) Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the House Coding.
- (ii) Alarms with RadioLINK modules should be tested regularly, at least monthly.

This is to determine whether there are sources of interference preventing communication, that the radio paths have not been disrupted by moving furniture or renovations, and if so, to give a warning of these and other faults.

Getting Your Alarm Serviced

If your Alarm fails to work after you have read the sections on “Installation”, “Testing and Maintenance” and “Troubleshooting”, then contact Customer Assistance at the nearest address given at the end of this leaflet. If it needs to be returned for repair or replacement put it in a padded box with the battery disconnected (***9V Replaceable Battery models*** only). The ***10 Year Lithium Battery models*** must be removed from the mounting plate. Send it to “Customer Assistance” at the nearest address given on the Alarm or in this leaflet. State the nature of the fault, where the Alarm was purchased and the date of purchase.

Five Year Guarantee

Ei Electronics guarantees this RF RadioLINK Module for five years from date of purchase against any defects that are due to faulty materials or workmanship. This guarantee only applies to normal conditions of use and service, and does not include damage resulting from accident, neglect, misuse, unauthorised dismantling, or contamination howsoever caused. This guarantee excludes incidental and consequential damage. If this RF RadioLINK Module should become defective within the guarantee period, it must be returned to Ei Electronics, with proof of purchase, carefully packaged, with the problem clearly stated. We shall at our discretion repair or replace the faulty unit. Do not interfere with the Alarm or attempt to tamper with it. This will invalidate the guarantee, but more importantly may expose the user to shock or fire hazards. This guarantee is in addition to your statutory rights as a consumer.

Technical Specifications

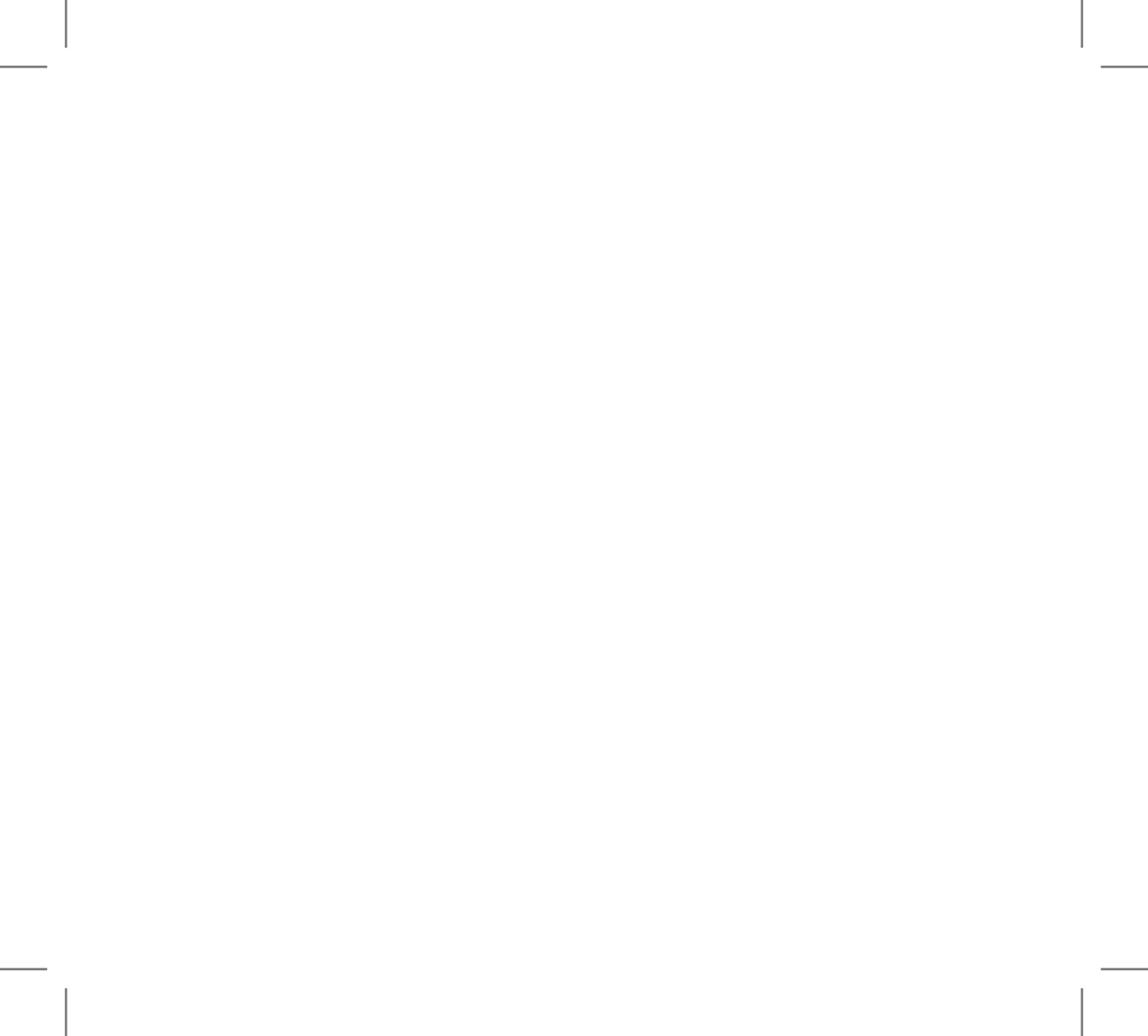
Supply Voltage:	Ei605MTYRF : 3V internal lithium battery (non-replaceable) Ei605MRF : 3V regulated from 9V Alarm supply
RF Range:	A minimum of 100 metres in free space
RF Visual Indicator:	Blue light flashes continuously for 0.5 to 3.5 seconds while transmitting RF signal
RF Frequency:	868.499MHz (1% duty cycle)
Max RF Power:	+10dBm
Dimensions:	57mm length x 30mm depth x 18mm height
Temperature Range:	0° to 40°C
Humidity Range:	15% to 95% Relative Humidity (non-condensing)
Interconnect *:	Up to 12 RadioLINK ⁺ or RadioLINK modules
Receiver Category:	Category 2
Approvals:	RF performance to EN 300 220-1 in accordance with EN 300 220-2 EMC performance to EN 301 489-1 in accordance with EN 301 489-3

* We recommend, for ease of installation and RF communication, that up to 12 RF devices can be installed in any one RF coded system. Please contact us for further advise if additional RF devices are required.

The crossed out wheelee bin symbol that is on your product indicates that this product should not be disposed of via the normal household waste stream. Proper disposal will prevent possible harm to the environment or to human health. When disposing of this product please separate it from other waste streams to ensure that it can be recycled in an environmentally sound manner. For more details on collection and proper disposal, please contact your local government office or the retailer where you purchased this product.



Hereby, Ei Electronics declares that these Ei605MTYRF & Ei605MRF RadioLINK Modules are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The Declaration of Conformity may be consulted at www.eielectronics.com/compliance



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