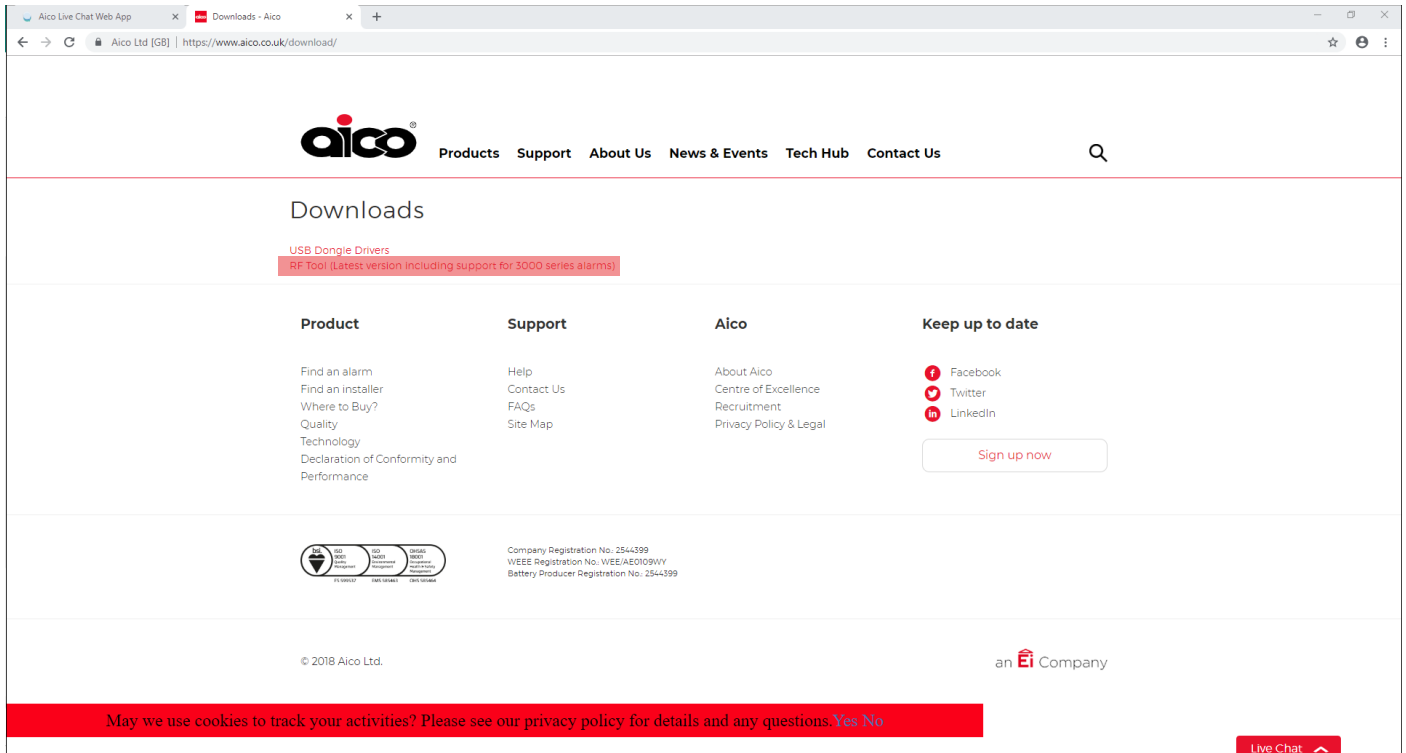
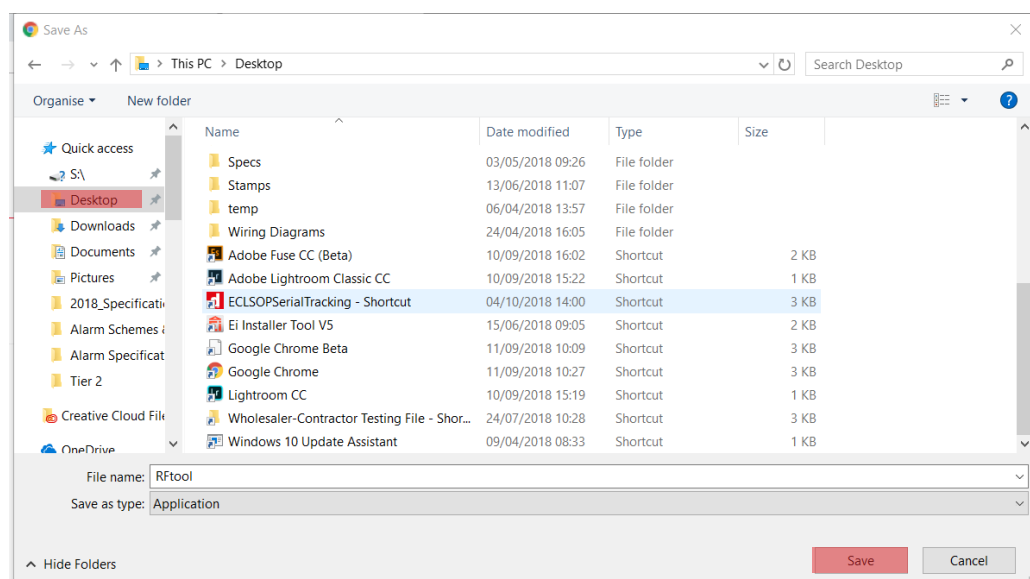


RF Tool Guidance

1. Congratulations on purchasing your EiUSB1. To download the RF Tool please go to the following URL on our website <https://www.aico.co.uk/download/> - Windows 10 PC's do not require the Dongle Drivers as they are built-in. If you are using an older version of Windows you will need to download the 'USB Dongle Drivers' also.

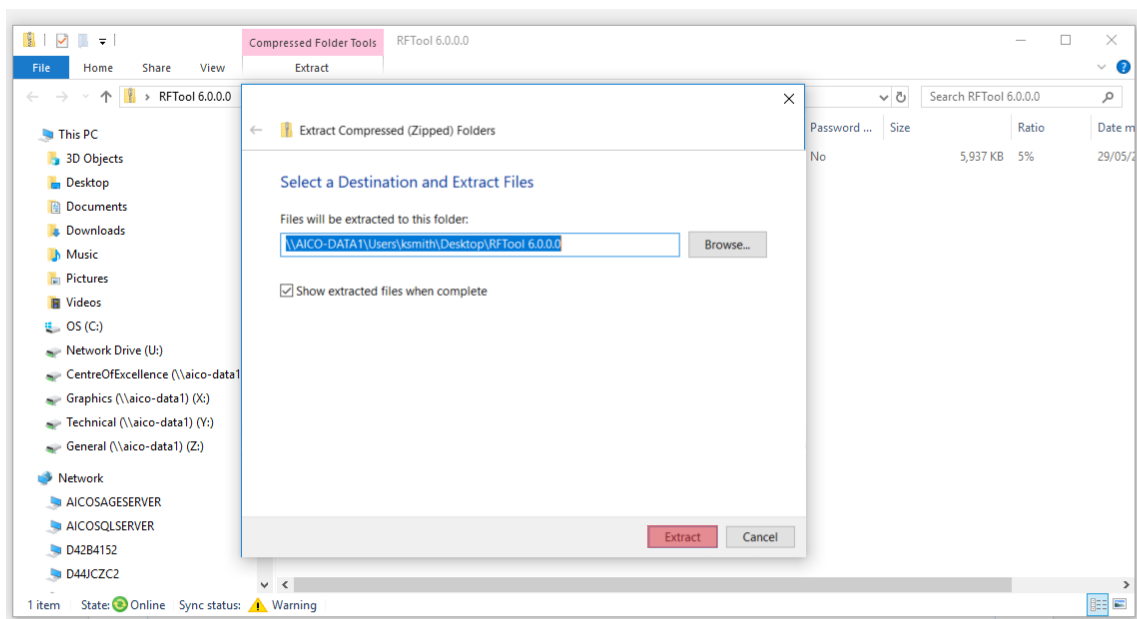
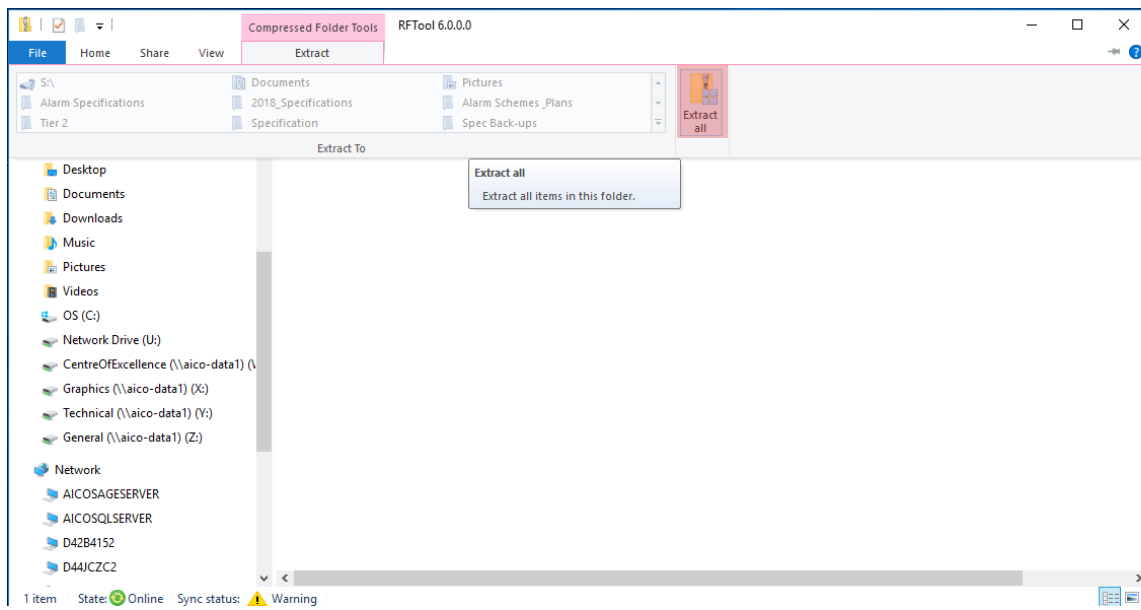


2. Save the file to a memorable location – I.e. Desktop.



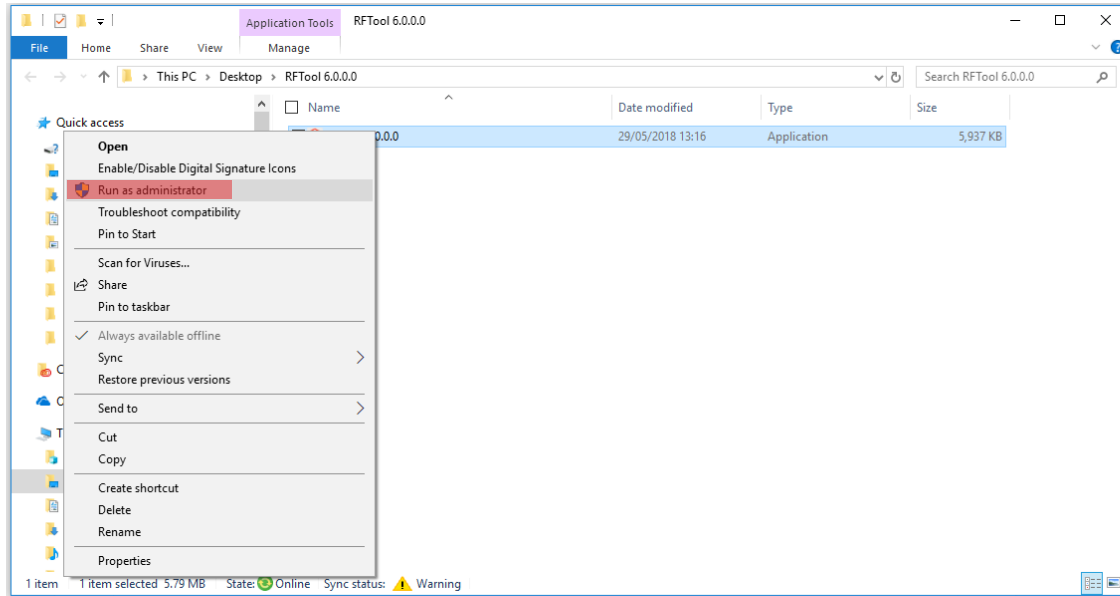
RF Tool Guidance

3. 'Extract all' files from the .zip folder to a memorable location — I.e. Desktop.

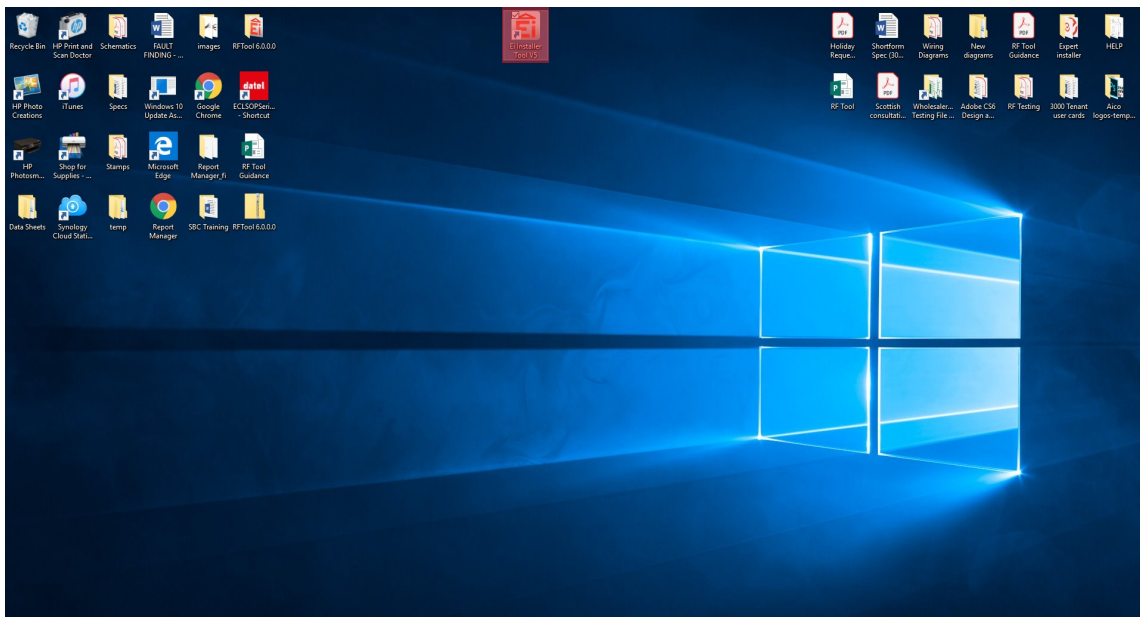


RF Tool Guidance

4. Right click the RF Application, ensure that you click Run as Administrator to install the software, this will allow the software the necessary privileges to run correctly.

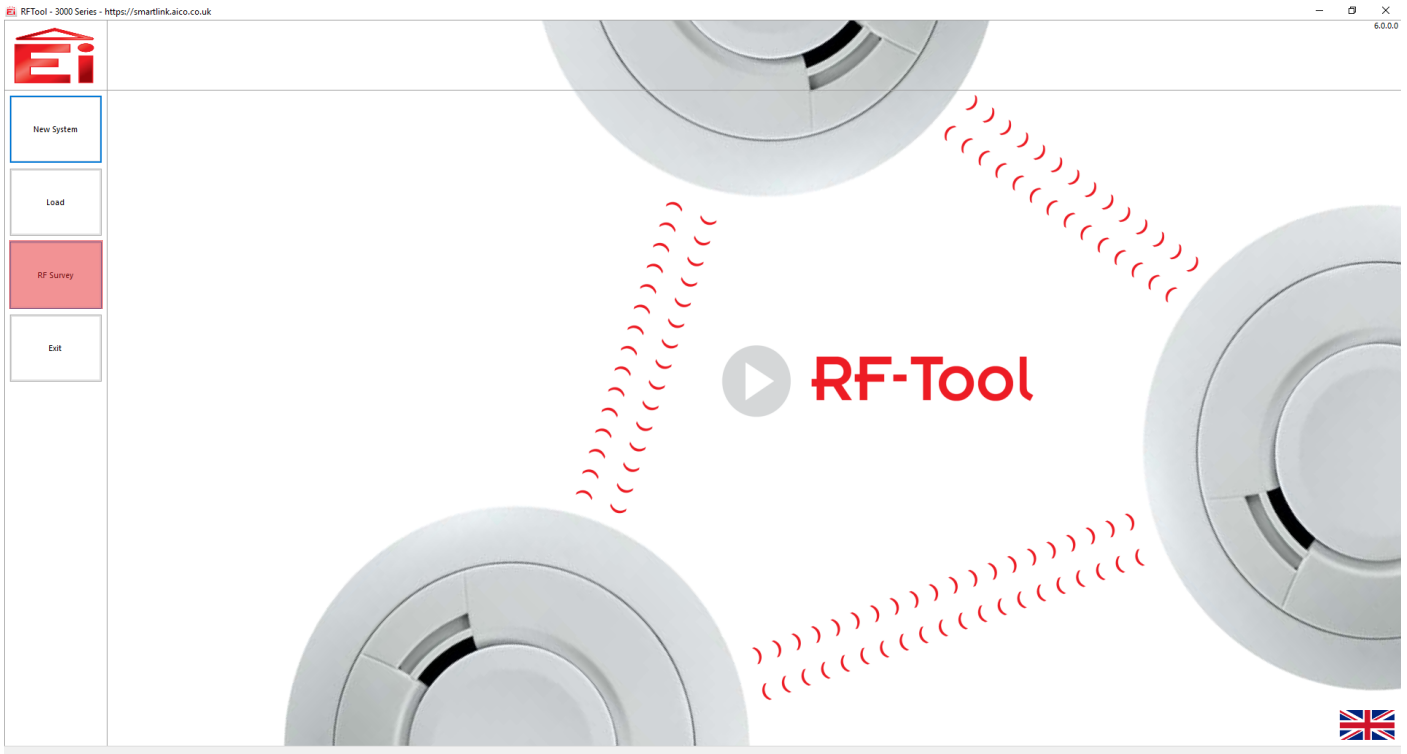


5. The RF Tool will now appear in the location you selected. Double click the thumbnail to open the application & begin making your RF Profile.

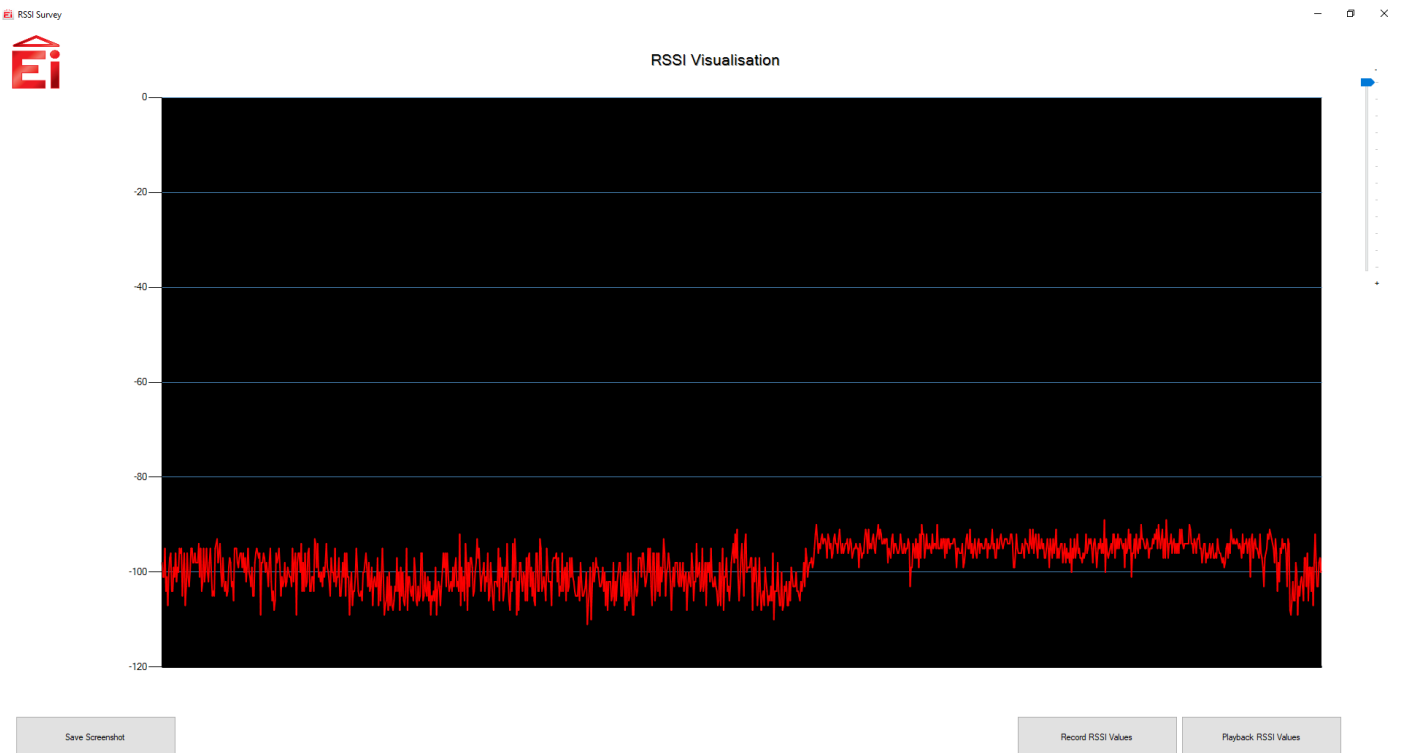


RF Tool Guidance

6. Using the RF Survey tab on this page will allow you to assess the property/area for interference.



7. The RF Survey can be used to investigate the background levels of RF within a property/area. This is a crucial step as high background RF levels can interfere with RadioLINK signals reducing the effective communication between devices.



RF Tool Guidance

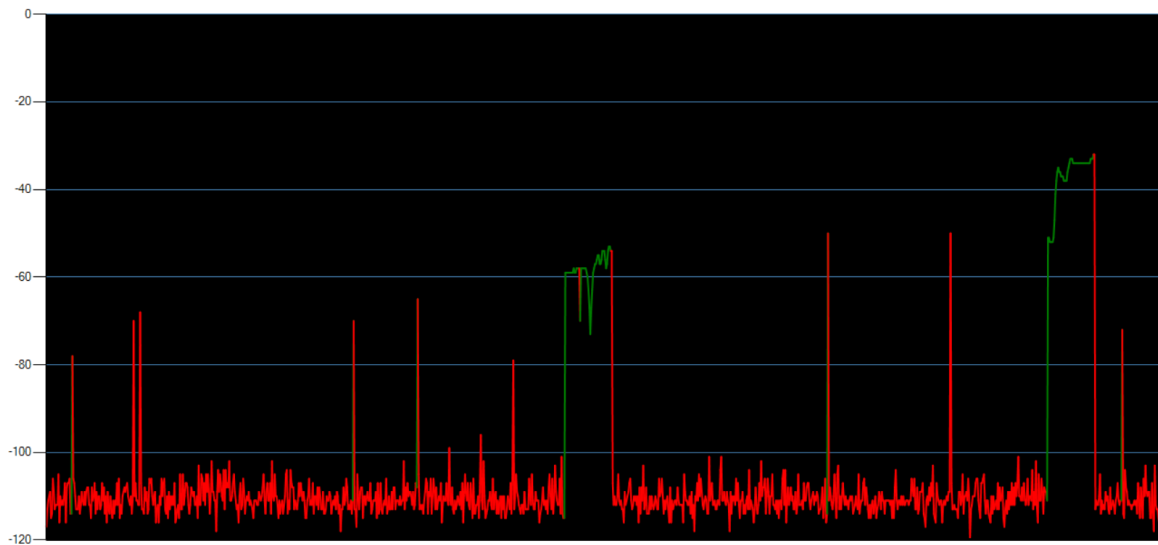
8. Normal background RF levels will be around -90 & -115 dBm, this is shown as the red line on the above screen shot. Any levels higher than -87 dBm should be investigated as this may cause problems. When a RadioLINK device is activated/tested, a higher strength signal is output (-45 to -60 dBm). Indicated via the green line.

If high levels of RF interference are present, you may use the RF Survey to locate the device causing the interference. Noting where the signal becomes weaker or stronger. This should be carried out until the source of the interference has successfully been located.

Ei RSSI Survey



RSSI Visualisation



Save Screenshot

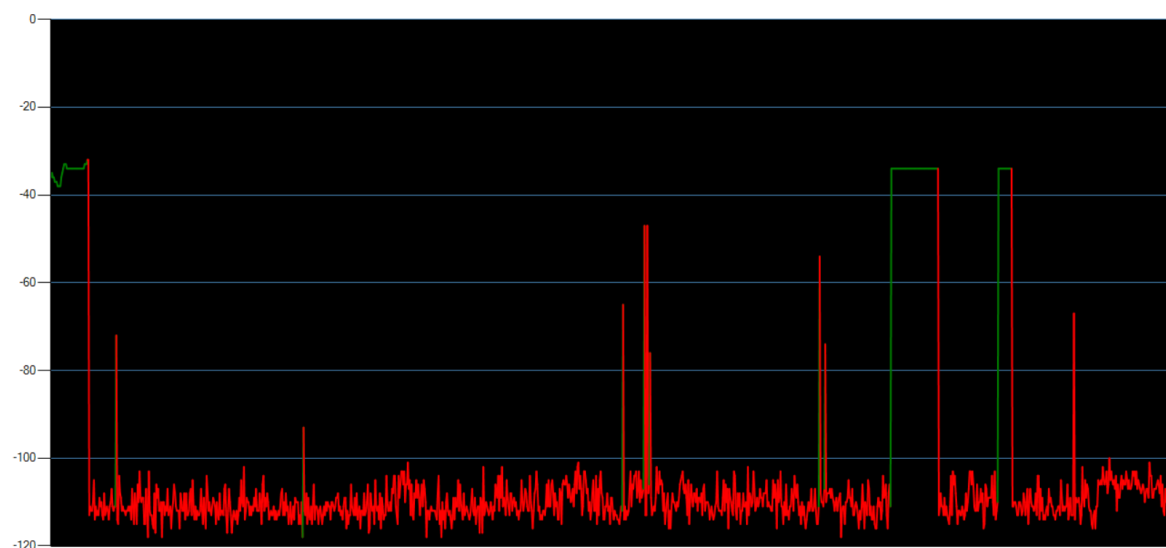
Record RSSI Values

Playback RSSI Values

Ei RSSI Survey



RSSI Visualisation



Save Screenshot

Record RSSI Values

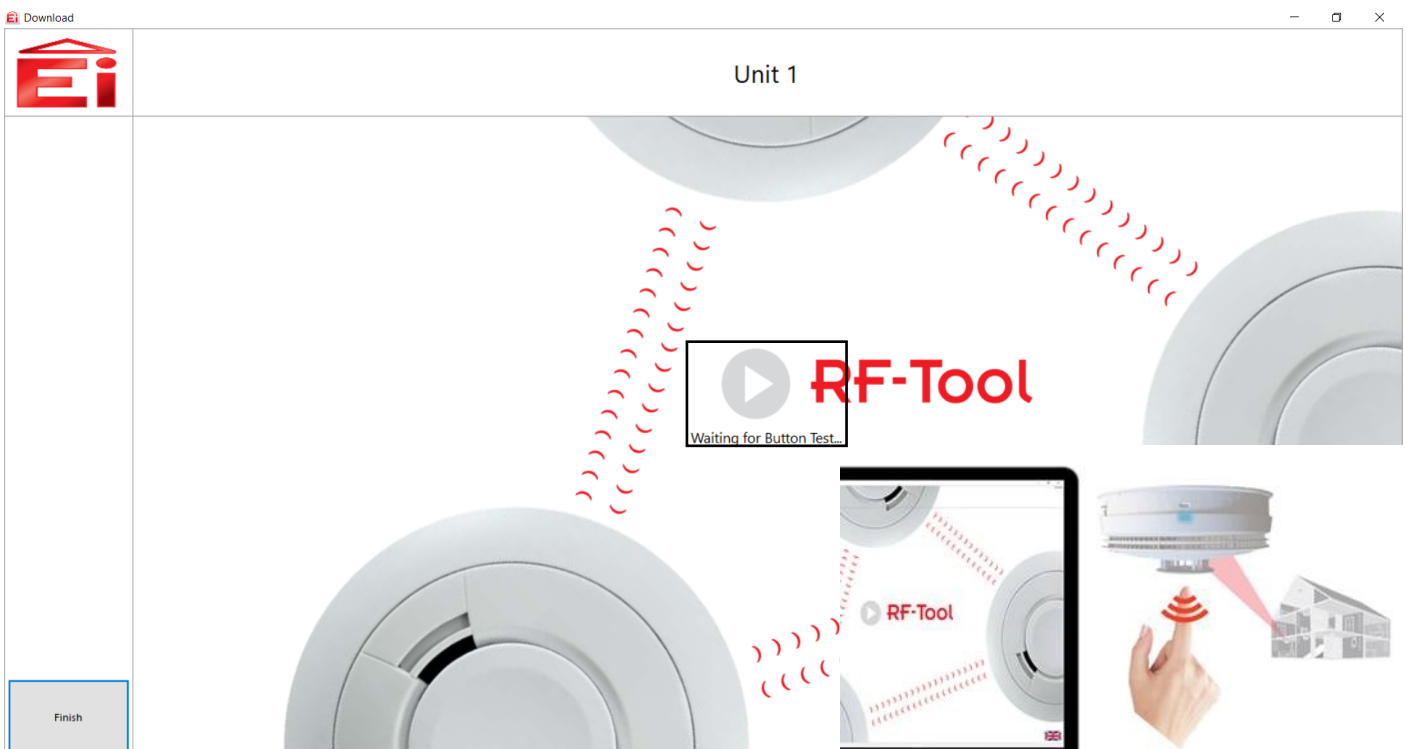
Playback RSSI Values

RF Tool Guidance

8. After House-coding your alarm system together, open the RF Tool (pictured below). To create the profile of your new alarm system, click new system.

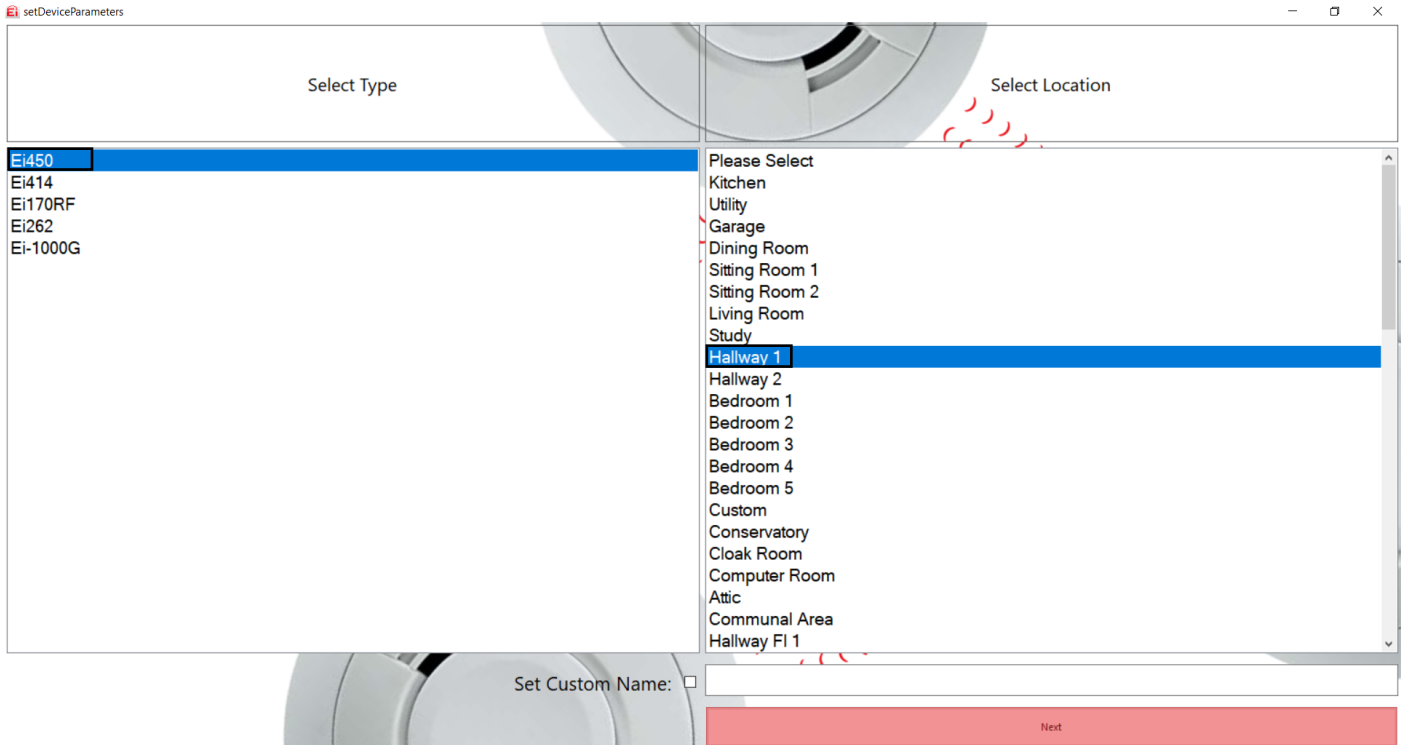


9. Press & hold the test button on your first alarm, until the RF Tool states that alarm data is being downloaded, you may then release the test button.

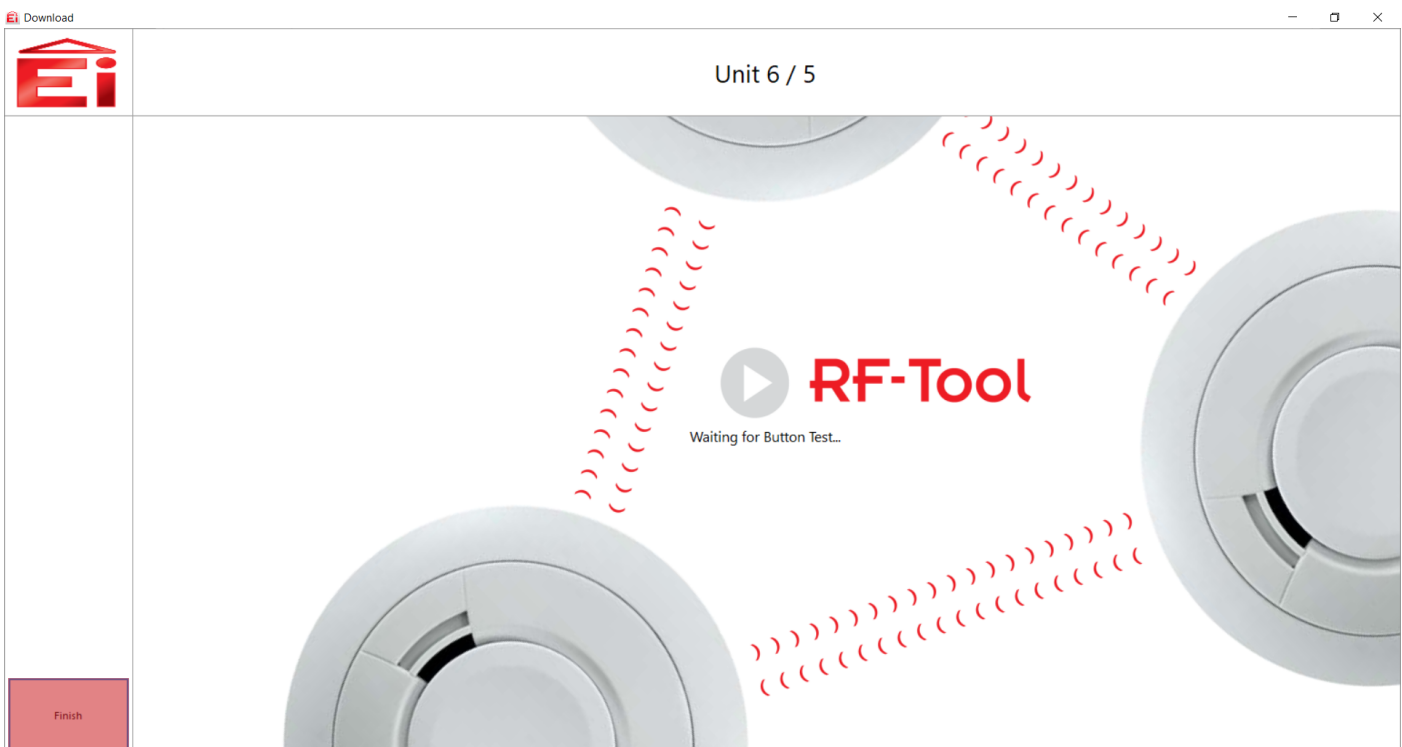


RF Tool Guidance

10. The RF Tool will automatically identify the unit, with the newer 3000 series. Older series alarms may require you to assign them. In this case, the Ei450 - Alarm controller. Choose the location of the device and then click next to add the next device. Repeat steps 9 & 10 for all devices in the system.



11. Once you have assigned all devices in the system, you may click finish (pictured bottom left).



RF Tool Guidance

12. This will generate a snapshot. Here you will see all of the devices in the system, their location, serial No. as well as the last time the data was extracted from the alarm. Highlight an alarm to perform the

Model	Location	Serial	Type	Last Download	
Ei450	Hallway 1	D1ESD9EC	Accessory	02/10/2018 13:44:25	Event Log
Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27	RF Info
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35	Update
Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39	ID Unit
Ei3024	Hallway 1	DAEBFBCB	Optical / Heat MultiSensor	02/10/2018 13:50:18	Add Unit
					Remove Unit
					Edit Unit

Exit
Generate Report
Save

13. Clicking the event log will bring up the screen pictured above. This will show you information such as the amount of button tests that have been carried out on the alarm and the last time this was done. In the case of a Carbon Monoxide (CO) alarm, a pane will also display the last time the CO sensor was activated, whether it was a High, Medium or Low level CO presence. The peak ppm (parts per million) is displaying the largest amount of CO that has been detected by the sensor.

Carbon Monoxide Alarm
Utility

Ei3018
Ei3000MRF
F4 EB E6 D8

Install Date: 23/09/2018 13:46:27	Button Test Date: 02/10/2018 Count: 45(+45)	Sensor Fault	Alarm Low Battery	Module Low Battery	Mains Absent Date: 02/10/2018 Count: 14(+14)	Miswire
CO Level: Current: 0 ppm Peak: 580 ppm	Power Up Date: 02/10/2018 Count: 255(+255)	CO Low Level	CO Med Level	CO High Level Date: 23/09/2018 Count: 1(+1)	CO 30ppm over 30 Min	CO 30ppm over 2 Hours Date: 20/09/2029 Count: 94(+94)

<<
>>

RF Tool Guidance

14. All RadioLINK+/SmartLINK devices will have the ability to have data extracted via the RF Tool, you would expect a new detectors event log to look like the one above. Click the arrow highlighted bottom right to view the next alarm in the system.

Event Log
- □ ×

Carbon Monoxide Alarm
Living Room

Ei208
Ei200MRF
F4 DE D4 DD

Install Date: 02/10/2018 13:47:35	Local Alarm	Button Test	Hard-Wired Alarm	Sensor Fault	Alarm Low Battery	Module Low Battery
Battery Level: 3V	End Of Life	Head Removed	Mains Absent	CO High Level	CO Med Level	CO Low Level
CO Level: Peak: 0 ppm	CO 30ppm over 30 Min	CO 30ppm over 2 Hours				
<< >>						

15. A Heat sensor, much like the Carbon Monoxide sensor, can display a peak temperature that has been sensed by the alarm, (pictured left) as well as the coldest temperature recorded.

Event Log
- □ ×

Heat / CO MultiSensor
Kitchen

Ei3028
Ei3000MRF
DA EB C3 DA

Install Date: 02/06/2018 17:48:39	Button Test Date: 02/10/2018 Count: 4(+4)	Sensor Fault	Alarm Low Battery	Module Low Battery	Mains Absent Date: 02/10/2018 Count: 2(+2)	Miswire
CO Level: Current: 0 ppm Peak: 0 ppm	Power Up Date: 02/10/2018 Count: 3(+3)	Heat Level	CO Low Level	CO Med Level	CO High Level	CO 30ppm over 30 Min
Temperature Current: 20°C Min: 15°C Max: 25°C	CO 30ppm over 2 Hours					
<< >>						

RF Tool Guidance

16. All Optical sensors in the 3000 series have a Dust Compensation feature, this means that the sensor will automatically recalibrate to compensate for the dust within the sensor. The Dust compensation level can be monitored via the RF Tool (pictured left) to ensure that the Maximum level is not reached. Multi-sensor alarms will show data for both sensors.

Event Log
- □ ×

Optical / Heat MultiSensor
Hallway 1

Ei3024
Ei3000MRF
DA EB FB CB

Install Date:
02/10/2018
13:50:18

Button Test
Date: 02/10/2018
Count: 4(+4)

Sensor Fault

Alarm Low Battery

Module Low Battery

Mains Absent
Date: 02/10/2018
Count: 2(+2)

Miswire

Dust Level:
Chamber 1:
Current: 0
Max: 32

Power Up
Date: 02/10/2018
Count: 4(+4)

Heat Level

Smoke Level

Temperature
Current: 20.5°C
Min: 20°C
Max: 20.5°C

<<
>>

17. To update the information of an RF profile upon revisiting, simply highlight the alarm you wish to receive the updated information from, then click update (highlighted on the right-hand side).

Summary
- □ ×

Model	Location	Serial	Type	Last Download	
Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25	Event Log
Ei3018	Utility	F4E8E6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27	RF Info
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35	Update
Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39	ID Unit
Ei3024	Hallway 1	DAEBFBCB	Optical / Heat MultiSensor	02/10/2018 13:50:18	Add Unit
					Remove Unit
					Edit Unit

Exit
Generate Report
Save

RF Tool Guidance

18. To add a unit into an RF profile that has already been set-up, simply click on Add Unit (highlighted right). Then follow steps 2, 3 & 4 to add the unit to the profile.

Summary

Model	Location	Serial	Type	Last Download
Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25
Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35
Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39
Ei3024	Hallway 1	DAEBFBCB	Optical / Heat MultiSensor	02/10/2018 13:50:18

Event Log
RF Info
Update
ID Unit
Add Unit
Remove Unit
Edit Unit

Exit Generate Report Save

19. To remove a unit from a profile, simply click the alarm that is to be removed from the system, then click the Remove Unit button. (highlighted right).

Summary

Model	Location	Serial	Type	Last Download
Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25
Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35
Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39
Ei3024	Hallway 1	DAEBFBCB	Optical / Heat MultiSensor	02/10/2018 13:50:18

Event Log
RF Info
Update
ID Unit
Add Unit
Remove Unit
Edit Unit

Exit Generate Report Save

RF Tool Guidance

20. To edit the location of a unit simply click Edit Unit (pictured right) and choose the new location.

The screenshot shows a window titled 'Summary' with a table of units. The table has five columns: Model, Location, Serial, Type, and Last Download. The row for model Ei3018 is highlighted in blue. To the right of the table is a vertical sidebar with buttons: Event Log, RF Info, Update, ID Unit, Add Unit, Remove Unit, and Edit Unit. The 'Edit Unit' button is highlighted in red. At the bottom of the window are three buttons: Exit, Generate Report, and Save.

Model	Location	Serial	Type	Last Download
Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25
Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35
Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39
Ei3024	Hallway 1	DAEBFBCB	Optical / Heat MultiSensor	02/10/2018 13:50:18

21. You may generate a report from the RF Tool to hand the data over to the relevant body or to email the information to your email address for a later date.

This screenshot is identical to the previous one, but the 'Generate Report' button at the bottom of the window is highlighted in red.

RF Tool Guidance

22. You will then be prompted to save the EI. File on your PC. This means you may open the profile & snapshot at a later date.

The screenshot shows the 'Summary' window with a table of units. A 'Report Generator' dialog box is open, displaying a 'Save PDF' window. The file name is 'Ember Place 02_10_2018 14 01' and the save type is 'PDF'. The background table contains the following data:

Model	Location	Serial	Type	Last Download
Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25
Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27
Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35
Ei3028	Kitchen			02/10/2018 13:48:39
Ei3024	Hallway 1			02/10/2018 13:50:18

23. The report shall then be generated. If you clicked 'Show PDF' it will open automatically. 'Send Email' means that the Report shall be emailed to the email address to that entered above.

The screenshot shows the 'Summary' window with the same table of units. The 'Report Generator' dialog box is open, showing contact information for report generation. The fields are filled with the following data:

Full Name:	Kieran	Postcode:	SY10 8NN
Address 1:	Ember Place	Country:	England
Address 2:		Phone Number:	01691 664100
Town/City:	Ember Place	Premises Type:	Cottage
County:	Shropshire	Email:	Technical.aico@aico.co.uk

Options: Show PDF, Send Email. A 'Generate Report' button is visible. A message 'Please Wait for PDF to be Generated...' is displayed. The 'Notes' field contains: 'High level CO test carried out.'

RF Tool Guidance

24. This is a brief overview, showing all of the devices in the system.

Installation Report System Summary

Full Name:	Kieran	Postcode:	SY10 8NN	Date:	02/10/2018
Address 1:	Ember Place	Country:	England	Time:	14:01:24
Address 2:		Phone No:	01691 664100	No of Devices:	5
Town/City:	Ember Place	Premises:	Cottage	RFTool Version	6.0.0.0
County:	Shropshire				

	Model	Location	Serial	Type	Last Download
1	Ei450	Hallway 1	D1E5D9EC	Accessory	02/10/2018 13:44:25
2	Ei3018	Utility	F4EBE6D8	Carbon Monoxide Alarm	02/10/2018 13:46:27
3	Ei208	Living Room	F4DED4DD	Carbon Monoxide Alarm	02/10/2018 13:47:35
4	Ei3028	Kitchen	DAEBC3DA	Heat / CO MultiSensor	02/10/2018 13:48:39
5	Ei3024	Hallway 1	DAEBFCB	Optical / Heat MultiSensor	02/10/2018 13:50:18
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

25. This is a paper-back version of the event log showing activations, button tests etc. as well as the dates of the events.

Room Name: Utility **Date:** 02/10/2018
Alarm Type: Carbon Monoxide Alarm **Time:** 14:01:22
Serial: F4EBE6D8 **Known Devices:** 4

Dust Level: NA **Status:** Powered 02/10/2018 13:46:27

Smoke, Heat and Fault Events

Event	Number of Events	Last Time of Event
Local Test	45	02/10/2018
Main Alarm	14	02/10/2018
Head Fault		
Head Low Battery		
Module Low Battery		
Miswire		
Smoke Alarm		
Heat Alarm		

CO Events

Event	Number of Events	Last Time of Event
High CO	1	23/09/2018
Medium CO		
Low CO		
30ppm Over 2 Hrs	94	20/09/2019
30ppm over 30 Min		

Peak CO Level (Since Last Restart): Current: 0 ppm
Peak: 500 ppm

Monitoring

Status:	Disabled
Missing Buddy Location:	
Missing Buddy Type:	
Missing Buddy Serial:	
Number of Events:	
Last Time of Event:	

