Airis Sense Multisensor Data Download Instructions

These instructions will assist you in downloading the data collected on your Airis Sense multisensor. This data can be used to better understand the cooking behaviours of the user, and assist in managing problem areas.

Note: To accurately collect data, you must connect the multisensor(s) to the Safera app in order to set the internal multisensor clock, especially after changing batteries. This occurs automatically when the connection is made. Without it, the multisensor is unable to timestamp the data. Each sensor stores up to 365 days of data.

Airis Sense collects the following data (depending on model) – all models:

- Cooking data – number of cooking sessions, alarms, and shutoffs
- kWh usage of your electric hob (and oven if the hob and oven are a single appliance)
- Ambient temperature
- Relative humidity

And for the Air Quality model only:

- AQ index
- eCO_2
- tVOC – total volatile organic compounds
- PM2.5 – 2.5 micrometre particulate matter

Necessary Materials



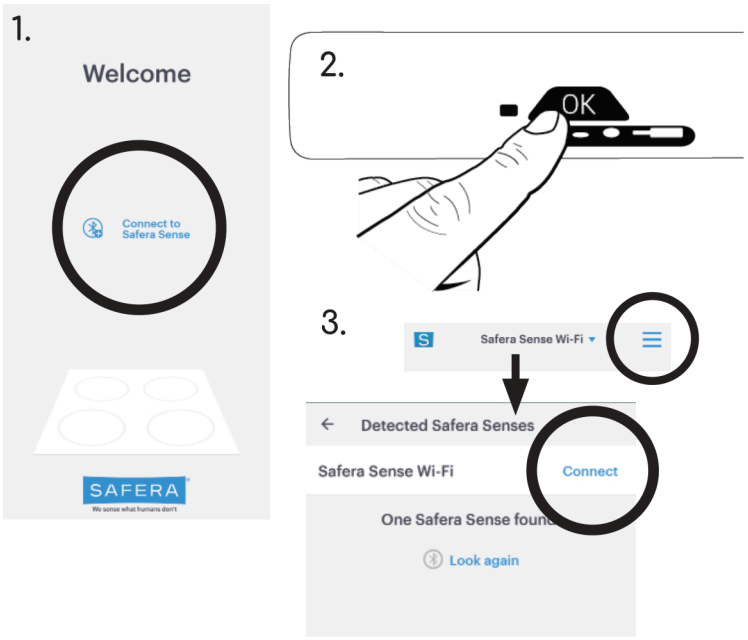
- Android or iOS device (mobile phone or tablet)
- Airis Sense multisensor module
- Safera application downloaded from Google Play or the Apple App Store
- Microsoft Excel or similar software package

Stage 1/6:

1. When in front of the Airis Sense multisensor module, open the Safera app on your mobile device and press “Connect to Safera Sense”

2. Press the “OK” button on the multisensor

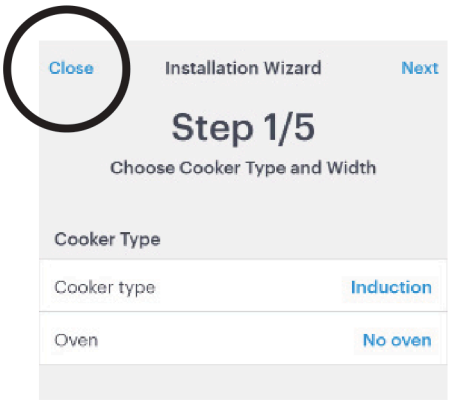
3. Press the three bars on the top right-hand side, then press “Connect”

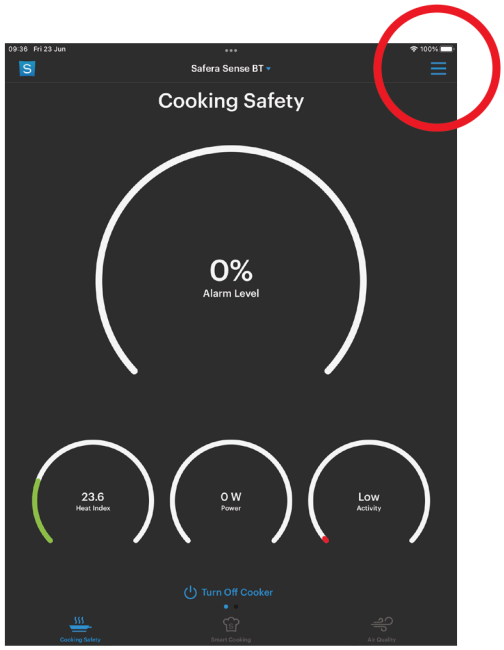


Stage 2/6:

The Installation Wizard will appear. Press “Close”.

Press the three bars on the top right of the screen to access the settings menu.



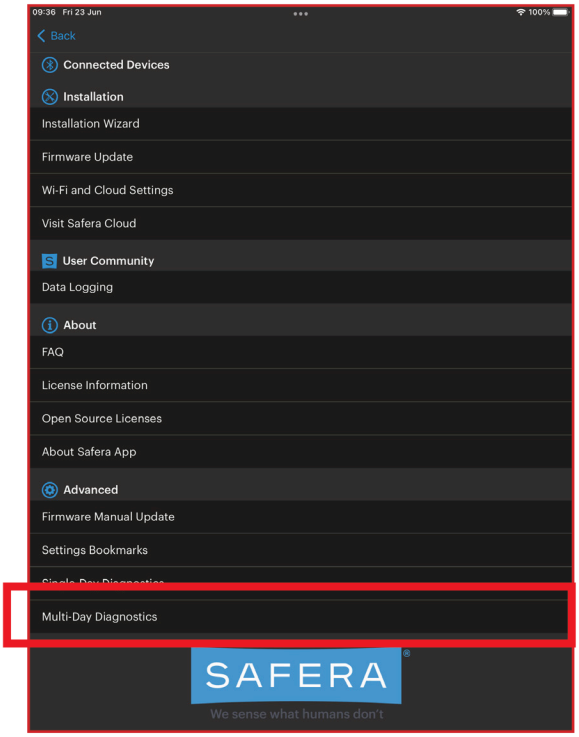


Stage 3/6:

1. Scroll to the bottom of the screen

2. Select “Multi Day Diagnostics”

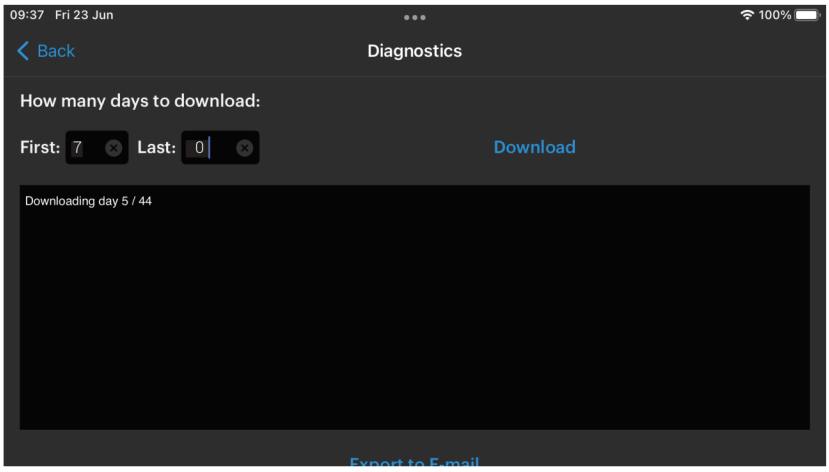
Note: “Single Day Diagnostics” can be used to view data from a specific day. This is for quick reference only and cannot be downloaded.



Multi Day Diagnostics provides a range of data over a set period. In the “first” field, put the number of days you want to search back to, e.g. 50 days.

In the “last” field, put the number of days you want to stop the search on, e.g. 10 days.

Example: “0” is today and “7” is 7 days ago.



Stage 4/6:

Select “Download”. The app will now download the data.

Note: You must identify the hob and the kitchen/building in the optional info, e.g. Stanley Hall Flat 12 Left (or LHS, or hob 1). This will be included in the export email.

Then select “Export to E-mail”. The app will attach the data file to your email software on your mobile device.



Stage 5/6:

Please input the following into the “To:” field:

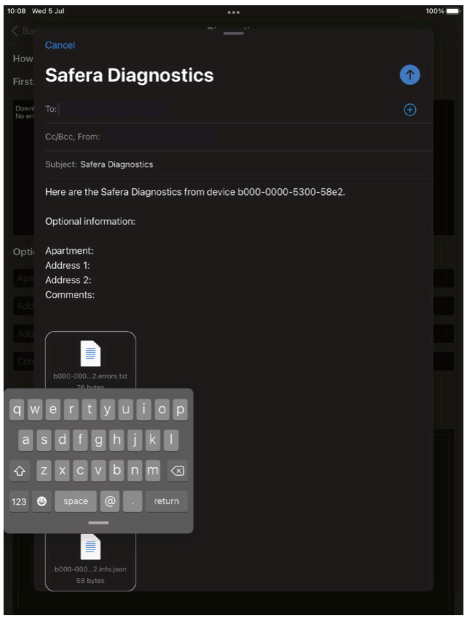
data@unicook.co.uk

Remember to include the name of your organisation in the subject field, e.g. “University of Life”.

You may now send the email.

Once we receive the data from you, we will convert the file into a user-friendly Excel document and send this back to you.

Note: If the return email address is different to the sender address, please CC the return email address into the email before sending.



Stage 6/6:

Once received, you can now open the .xlsx (Excel) file (this also opens in Apple Pages) and view the data. Such data can be useful input into yearly fire risk reporting, identifying potentially dangerous behaviours or potential problem kitchens, allowing more effective management of those areas. **Hint: create charts from the data to make analysis easier.***

The data is presented in three tabs within the Excel file:

Tab 1. Summary data, providing an overview of energy use, number of cooking sessions, alarms and shutoffs per sensor

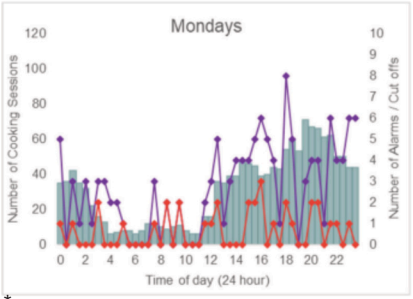
Tab 2. Granular data, providing each individual log entry created by the sensor

Tab 3. Environmental data, providing ambient temperature and relative humidity (and AQ index, eCO_2, tVOC and PM2.5 particulate levels – AQ sensors only)

Tab 1.

Building	Apartment	kWh Total	Cooking Sess	Alarms	Shutoffs
Halls 1	Flat 1	0.219	4	0	0
Halls 1	Flat 2	0	11	0	0
Halls 1	Flat 3	0	4	0	0
Halls 1	Flat 4	0	3	0	0
Halls 1	Flat 5	7.62	27		
Halls 1	Flat 6	0.342	22		
Halls 1	Flat 7	0	55		
Halls 1	Flat 8	0	14		
Halls 1	Flat 9	0.048	3		
Halls 2	Flat 1	0.395	14		
Halls 2	Flat 2	0	11		
Halls 2	Flat 3	0	7		
Halls 2	Flat 4	0.225	8		
Halls 2	Flat 5	0	11		
Halls 2	Flat 6	0	11		
Halls 2	Flat 7	0	8		
Halls 2	Flat 8	0	8		
Halls 2	Flat 9	0	6		
Halls 2	Flat 10	0.598	22		
Halls 2	Flat 11	2.017	24		

Summary Data | Granular Data | Environmental Data



Tab 2.

Apartment	Date	Day	Type	Value
Flat	02/07/2023	Sunday	CookingTotal	3
Flat	02/07/2023	Sunday	CookingActivity	15:00
Flat	02/07/2023	Sunday	CookingActivity	16:00
Flat	01/07/2023	Saturday	kWh	0
Flat	30/06/2023	Friday	kWh	0
Flat	29/06/2023	Thursday	kWh	0
Flat	28/06/2023	Wednesday	kWh	
Flat	27/06/2023	Tuesday	kWh	
Flat	26/06/2023	Monday	kWh	
Flat	25/06/2023	Sunday	kWh	
Flat	24/06/2023	Saturday	kWh	
Flat	02/08/2023	Wednesday	kWh	
Flat	01/08/2023	Tuesday	kWh	
Flat	31/07/2023	Monday	kWh	
Flat	30/07/2023	Sunday	kWh	
Flat	29/07/2023	Saturday	kWh	
Flat	29/07/2023	Saturday	Cooki	
Flat	29/07/2023	Saturday	Cooki	
Flat	29/07/2023	Saturday	Cooki	
Flat	29/07/2023	Saturday	Cooki	
Flat	28/07/2023	Friday	kWh	
Flat	28/07/2023	Friday	Cooki	
Flat	27/07/2023	Thursday	kWh	
Flat	27/07/2023	Thursday	Cooki	
Flat	27/07/2023	Thursday	Cooki	
Flat	26/07/2023	Wednesday	kWh	
Flat	26/07/2023	Wednesday	Cooki	
Flat	25/07/2023	Tuesday	kWh	
Flat	25/07/2023	Tuesday	Cooki	
Flat	25/07/2023	Tuesday	Alarm	
Flat	25/07/2023	Tuesday	Alarm	
Flat	25/07/2023	Tuesday	Alarm	
Flat	25/07/2023	Tuesday	Shuto	
Flat	25/07/2023	Tuesday	Alarm	
Flat	25/07/2023	Tuesday	Alarm	
Flat	24/07/2023	Monday	kWh	
Flat	23/07/2023	Sunday	kWh	
Flat	23/07/2023	Sunday	Cooki	
Flat	23/07/2023	Sunday	Cooki	
Flat	23/07/2023	Sunday	Alarm	

Data | Granular Data | Environmental Data

Tab 3.

Apartment	Date	Day	Time	Cooking	Temperatur	Relative Hun	AQ Index	eCO2	TVOC	PM 2.5
Flat	30/07/2023	Sunday	16:30	0	24.45	54	245	458	0	122
Flat	30/07/2023	Sunday	17:00	0	24.57	53	142	459	0	71
Flat	30/07/2023	Sunday	17:30	0	24.76	53	33	459	0	15
Flat	30/07/2023	Sunday	18:00	0	24.96	52	3	460	0	0
Flat	30/07/2023	Sunday	18:30	0	25.07	51	3	460	0	0
Flat	30/07/2023	Sunday	19:00	0	25.14	51	3	460	0	0
Flat	30/07/2023	Sunday	19:30	0	25.17	51	21	460	0	10
Flat	30/07/2023	Sunday	20:00	0	25.11	51	15	460	0	7
Flat	30/07/2023	Sunday	20:30	0	24.96	51	5	460	0	1
Flat	30/07/2023	Sunday	21:00	0	24.83	51	3	459	0	0
Flat	30/07/2023	Sunday	21:30	0	24.72	51	3	458	0	0
Flat	30/07/2023	Sunday	22:00	0	24.60	51	3	457	0	0
Flat	30/07/2023	Sunday	22:30	0	24.52	51	12	457	0	5
Flat	30/07/2023	Sunday	23:00	0	24.48	51	7	456	0	2
Flat	30/07/2023	Sunday	23:30	0	24.42	50	3	456	0	0
Flat	29/07/2023	Saturday	00:00	0	21.41	67	2	457	0	0
Flat	29/07/2023	Saturday	00:30	0	21.45	66	2	457	0	0
Flat	29/07/2023	Saturday	01:00	0	21.47	66	4	457	0	1
Flat	29/07/2023	Saturday	01:30	0	21.46	66	8	457	0	4
Flat	29/07/2023	Saturday	02:00	0	21.45	66	2	457	0	0
Flat	29/07/2023	Saturday	02:30	0	21.45	66	2	457	0	0
Flat	29/07/2023	Saturday	03:00	0	21.49	66	2	457	0	0
Flat	29/07/2023	Saturday	03:30	0	21.51	66	2	457	0	0
Flat	29/07/2023	Saturday	04:00	0	21.56	66	2	457	0	0
Flat	29/07/2023	Saturday	04:30	0	21.58	66	2	458	0	0
Flat	29/07/2023	Saturday	05:00	0	21.59	66	2	458	0	0
Flat	29/07/2023	Saturday	05:30	0	21.57	66	3	458	0	0
Flat	29/07/2023	Saturday	06:00	0	21.52	66	4	458	0	2
Flat	29/07/2023	Saturday	06:30	0	21.51	66	2	457	0	0
Flat	29/07/2023	Saturday	07:00	0	21.51	66	2	457	0	0
Flat	29/07/2023	Saturday	07:30	0	21.55	66	4	457	0	1
Flat	29/07/2023	Saturday	08:00	0	21.60	66	13	457	0	6
Flat	29/07/2023	Saturday	08:30	0	21.64	66	13	457	0	6
Flat	29/07/2023	Saturday	09:00	0	21.67	66	4	458	0	1
Flat	29/07/2023	Saturday	09:30	0	21.67	66	8	458	0	4
Flat	29/07/2023	Saturday	10:00	0	21.72	66	4	458	0	2
Flat	29/07/2023	Saturday	10:30	0	21.78	66	3	458	0	0
Flat	29/07/2023	Saturday	11:00	0	21.88	66	4	458	0	1
Flat	29/07/2023	Saturday	11:30	0	21.96	66	9	459	0	4
Flat	29/07/2023	Saturday	12:00	0	22.02	65	3	459	0	0
Flat	29/07/2023	Saturday	12:30	0	22.09	65	3	459	0	0
Flat	29/07/2023	Saturday	13:00	0	22.17	65	4	459	0	1

ry Data | Granular Data | Environmental Data

*Charts can be useful in understanding data