



SOFRIGAM[®]

Sofrigam Manager
User Manual



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Getting Started

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INSTALLING SOFRIGAM MANAGER

The Sofrigam Manager software is not required to read recorded data, the data can be read depending on the desired settings, simply by connecting a temperature logger. However, to make a configuration, you must register the software on your computer. The procedure is simple.

- 1 Go to the url <http://www.sofrigam.fr/caisse-refrigerante-iBox>
- 2 Create a customer space in 2 clicks or connect directly with a username and password.
- 3 Click on the download link at the bottom of the page

CUSTOMER AREA

Please log in to access the private space on this site

E-mail*

Password* [Forgotten your password?](#)

Remember me



SOFRIGAM MANAGER

The Sofrigam Manager software enables the user to configure and download the iBox logger.

[Download the software](#)

Operating systems, distinctive features

Installation for Windows:

Save a copy of the Sofrigam Manager file (*.exe) and save it to the desired location. No installation required. The application can be launched from any directory.

Installation for Mac OS X:

Click on the Sofrigam Manager file. A window containing the Sofrigam Manager application opens. Simply move the application to the "Applications" folder. The Sofrigam Manager application can be launched directly from this folder.

NAVIGATING IN THE USER INTERFACE

Navigation within Sofrigam Manager can be done via the main buttons of the interface or via the file menu in the main bar. The possibilities are the same except that in "Edit" it is possible to load a previously saved configuration. The elements of the different tabs are customizable (data displayed, colors of the graphs etc.). Refer to the "Customization" chapter.

Annotations and callouts:

- Display connected loggers. Check/uncheck to display data or not
- Configuration Tab. (see configuration chapter)
- Data management tabs: graphic display (figure 1 opposite). Calling back configuration and saved data (2)
- Last saved file
- One-click data backup, in the desired format, to the location set in the preferences
- View/Close the explorer
- Configuration buttons to start recording

Figure 1: Graph showing temperature trends. The y-axis is Temperature(°C) from -20 to 80. The x-axis represents time. Two lines are plotted: Internal Temperature(°C) (black) and External Temperature(°C) (green). A red alarm threshold is labeled "Alarme Très Haute et Haute" with a red arrow pointing to a peak. A blue alarm threshold is labeled "Alarme Très Basse et Basse" with a blue arrow pointing to a trough.

Figure 2: Configuration window showing "Specification & Configuration" and "Alarms (Time above / below Alarms)".

#	Elapsed	Time	Internal T.°C	External T.°C
Specification & Configuration				
Device Name:	iBox			
Serial Number:	IB660004			
Time Zone:	GMT+16			
Firmware Version:	1.12A			
Trip Number:	0			
Trips Remaining:	Multiple:			
Temp. Unit:	Celsius			
Temp. Range:	-40 to +80°C			
Battery:	2.95V - 98%			
Total Records:	2577			
Sampling Rate:	5 sec			
Start Delay:	00:05:00			
Start Time:	Parameter not set			
Stop Time:	Parameter not set			
Recording Duration:	001d 03h46m40s			
Alarms (Time above / below Alarms)				
Extra High Alarm:	+10.00°C			
Extra High Consecutive delay before alarm:	00:00:00			
Extra High Total delay before alarm:	00:01:00			
Extra High Out of Specification:				
High Alarm:	+8.00°C			
High Consecutive delay before alarm:	00:00:00			
High Total delay before alarm:	00:01:00			
High Out of Specification:	00:00:05			
Low Alarm:	+2.00°C			
Low Consecutive delay before alarm:	00:00:00			
Low Total delay before alarm:	00:01:00			
Low Out of Specification:				
Extra Low Alarm:	+0.00°C			
Extra Low Consecutive delay before alarm:	00:00:00			
Extra Low Total delay before alarm:	00:01:00			

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CONNECT

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CUSTOMIZE

- ✓ Connection via the USB port of the logger
- ✓ Automatic display of saved data
- ✓ File structure

CONNECTING LOGGER, READING FILES

When the logger is connected to the USB port, the data files are instantly generated (ZLG, CSV, PDF and TXT). The files all have the same structure:

- Calling back the configuration
- Temperature reading according to the intervals defined during configuration
- Graph (PDF only)

The screenshot displays the Sofrigam Manager interface. On the left, a file explorer window shows the contents of the iBox (E:) drive, including files like IB660004.CSV, IB660004.PDF, IB660004.TXT, and IB660004.ZLG. The main window shows the 'Specification & Configuration' dialog box, which includes fields for Device Name, Serial Number, Time Zone, Firmware Version, Trip Number, Trip Remaining, Temp. Unit, Temp. Range, Battery, Total Records, Sampling Rate, Start Delay, Start Time, and Stop Time. Below this, a 'Description: SofrigamManager Notice' window displays a graph of temperature over time. The graph shows a temperature curve starting at approximately 18.12°C and fluctuating between 4.75°C and 5.50°C. A table below the graph provides the following data:

#	Date / Time	Int.T.(°C)	Ext.T.(°C)
1	04/01/17 14:00:55	5.31	18.12
2	04/01/17 14:01:00	5.25	18.06
3	04/01/17 14:01:05	5.18	18.00
4	04/01/17 14:01:10	5.12	17.93
5	04/01/17 14:01:15	5.06	17.93
6	04/01/17 14:01:20	5.00	17.93
7	04/01/17 14:01:25	5.12	17.93
8	04/01/17 14:01:30	5.06	17.93
9	04/01/17 14:01:35	5.00	17.93
10	04/01/17 14:01:40	5.00	17.87
11	04/01/17 14:01:45	4.93	17.87
12	04/01/17 14:01:50	4.87	17.81
13	04/01/17 14:01:55	4.81	17.81
14	04/01/17 14:02:00	4.81	17.75
15	04/01/17 14:02:05	4.75	17.68

The ZLG file

The ZLG is an exclusive Sofrigam Manager file format containing the recorder information (type, serial, firmware etc.) and configuration (start and stop conditions, alarm settings etc.). saved manually or automatically when the logger is connected.

CONNECTING LOGGER, READING FILES

For the PDF, since it is the most complete of the files generated by the logger and allows graphical visualization. All files consist of two parts: logger configuration call back (temperature readings intervals, start and stop mode, unit of measure, etc.) and details of the measured temperatures.

Specification & Configuration		Alarm Status/Statistics																																	
Device Name:	iBox	Type:	Temp.																																
Device Type:	Multi-use Smart Logger	EH:	+10.00°C																																
Serial Number:	IB660004	H:	+8.00°C																																
Time Zone:	GMT:+1	L:	+2.00°C																																
Firmware Version:	1.12A	EL:	+0.00°C																																
Trip Number:	0	Consecutive:	00:00:00																																
Trips Remaining:	Multiple	Total:	00:01:00																																
Temp. Unit:	Celsius	Out of Spec.:	00:00:05																																
Temp. Range:	-40 to +80°C	<div style="text-align: center;"> <p>ALARM</p> </div>																																	
Battery:	2.95V - 98%																																		
Total Records:	2577	<table border="1"> <thead> <tr> <th colspan="2">Summary / Statistics</th> <th colspan="2">File Created at: 04/01/17 18:35:01</th> </tr> </thead> <tbody> <tr> <td>Maximum Temperature:</td> <td>+13.68°C</td> <td>Status:</td> <td>Stopped</td> </tr> <tr> <td>Minimum Temperature:</td> <td>+ 3.56°C</td> <td>Trip Duration:</td> <td>03:34:40</td> </tr> <tr> <td>Average Temperature:</td> <td>+ 4.37°C</td> <td>Time within Spec:</td> <td>03:34:35</td> </tr> <tr> <td>Mean Kinetic Temp:</td> <td>+ 4.41°C</td> <td>Started Time:</td> <td>04/01/17 14:00:55</td> </tr> <tr> <td>Active Bookmarks:</td> <td>0</td> <td>Stopped Time:</td> <td>04/01/17 18:35:01</td> </tr> <tr> <td>Started by:</td> <td>Manual</td> <td>Memory Used:</td> <td>12% 2577/20000</td> </tr> <tr> <td>Stopped by:</td> <td>Manual</td> <td>Sensor Serial:</td> <td>2380000008217028</td> </tr> </tbody> </table>		Summary / Statistics		File Created at: 04/01/17 18:35:01		Maximum Temperature:	+13.68°C	Status:	Stopped	Minimum Temperature:	+ 3.56°C	Trip Duration:	03:34:40	Average Temperature:	+ 4.37°C	Time within Spec:	03:34:35	Mean Kinetic Temp:	+ 4.41°C	Started Time:	04/01/17 14:00:55	Active Bookmarks:	0	Stopped Time:	04/01/17 18:35:01	Started by:	Manual	Memory Used:	12% 2577/20000	Stopped by:	Manual	Sensor Serial:	2380000008217028
Summary / Statistics		File Created at: 04/01/17 18:35:01																																	
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Average Temperature:	+ 4.37°C	Time within Spec:	03:34:35																																
Mean Kinetic Temp:	+ 4.41°C	Started Time:	04/01/17 14:00:55																																
Active Bookmarks:	0	Stopped Time:	04/01/17 18:35:01																																
Started by:	Manual	Memory Used:	12% 2577/20000																																
Stopped by:	Manual	Sensor Serial:	2380000008217028																																
Sampling Rate:	5 sec																																		
Start Delay:	00:05:00																																		
Start Time:	Parameter not set																																		
Stop Time:	Parameter not set																																		

1

Top of the PDF
Configuration & Specifications

Name of the device: Data Logger template. Read only.

Serial number: Unique to the recorder.

Time zone: Time zone selected during configuration + DST (Daylight Saving Time).

Firmware version: Firmware version of the current recorder.

Number of shipments: It counts the number of uses each time the logger starts. Read only.

Remaining use: Indicates the remaining number of uses or Multiple for multi-use recorders.

Temp unit: Measure unit selected for the temperature (Celsius or Fahrenheit) during configuration.

Temp range: This is the temperature range of the recorder's sensors. In this example, it is a temperature sensor with a range of -40° C to +80° C.

Battery: Battery power and current charge level in %.

Total records: The total number of records saved in the recorder.

Measurement interval: time interval set between each record.

Start delay: Configured manual start delay.

Start Time: Automatically sets the recording start time and date.

Stop: Automatically set recording recording stop time and date

Recording duration: total recording duration

CONNECTING LOGGER, READING FILES

The "Alarm" box allows you to see at a glance whether a temperature threshold has been exceeded.

Specification & Configuration		Alarm Status/Statistics									
Device Name:	iBox	EL	L	N	H	EH	Type:	Temp.	Consecutive	Total	Out of Spec.
Device Type:	Multi-use Smart Logger	ALARM					EH:	+10.00°C	00:00:00	00:01:00	00:00:05
Serial Number:	IB660004						H:	+8.00°C	00:00:00	00:01:00	
Time Zone:	GMT:+1	L:	+2.00°C	00:00:00	00:01:00	EL:	+0.00°C	00:00:00	00:01:00		
Firmware Version:	1.12A	Summary / Statistics				File Created at: 04/01/17 18:35:01					
Trip Number:	0	Maximum Temperature:	+13.68°C	Status:	Stopped						
Trips Remaining:	Multiple	Minimum Temperature:	+ 3.56°C	Trip Duration:	03:34:40						
Temp. Unit:	Celsius	Average Temperature:	+ 4.37°C	Time within Spec:	03:34:35						
Temp. Range:	-40 to +80°C	Mean Kinetic Temp:	+ 4.41°C	Started Time:	04/01/17 14:00:55						
Battery:	2.95V - 98%	Active Bookmarks:	0	Stopped Time:	04/01/17 18:35:01						
Total Records:	2577	Started by:	Manual	Memory Used:	12% 2577/20000						
Sampling Rate:	5 sec	Stopped by:	Manual	Sensor Serial:	2380000008217028						
Start Delay:	00:05:00										
Start Time:	Parameter not set										
Stop Time:	Parameter not set										

2

Top of the PDF Alarms

Visual reference that lets you know as soon as possible if a threshold has been crossed.

Ex: Here H is colored - High alarm has been exceeded

(EL) Very low

(L) Low

(N) Normal

(H) High

(EH) Very high

Type: Very high, high, low, very low

Temp: Alarm threshold.

Consecutive: Consecutive delay before alarm

Ex: For the high alarm: Consecutive time above the high threshold before the high alarm is activated

Ex: For the low alarm : Consecutive delay below the low threshold before the low alarm is activated

Total: Cumulative delay

Out of specification: Total time out of alarm threshold.

The "Summary/Statistics" box gives a summary of the statistics recorded during the transport

Specification & Configuration		Alarm Status/Statistics										
Device Name:	iBox	○	○	○	●	○	EL L N H EH	Type:	Temp.	Consecutive	Total	Out of Spec.
Device Type:	Multi-use Smart Logger	ALARM					EH:	+10.00°C	00:00:00	00:01:00		
Serial Number:	IB660004						H:	+8.00°C	00:00:00	00:01:00		
Time Zone:	GMT:+1						L:	+2.00°C	00:00:00	00:01:00		
Firmware Version:	1.12A						EL:	+0.00°C	00:00:00	00:01:00		
Trip Number:	0	Summary / Statistics		File Created at: 04/01/17 18:35:01			Status:	Stopped				
Trips Remaining:	Multiple	Maximum Temperature:	+13.68°C	Trip Duration:	03:34:40							
Temp. Unit:	Celsius	Minimum Temperature:	+ 3.56°C	Time within Spec:	03:34:35							
Battery:	2.95V - 98%	Average Temperature:	+ 4.37°C	Started Time:	04/01/17 14:00:55							
Total Records:	2577	Mean Kinetic Temp:	+ 4.41°C	Stopped Time:	04/01/17 18:35:01							
Sampling Rate:	5 sec	Active Bookmarks:	0	Memory Used:	12% 2577/20000							
Start Delay:	00:05:00	Started by:	Manual	Sensor Serial:	2380000008217028							
Start Time:	Parameter not set	Stopped by:	Manual									
Stop Time:	Parameter not set											

3

Top of the PDF
Summary of statistics

Maximum temperature: Maximum temperature during the trip.

Minimum temperature: Minimum temperature during the trip.

Average temperature: Average trip time.

Average kinetic temperature: MKT of the entire path using the activation energy set during configuration.

Active bookmarks: Number of markers, manually activated

Started by: Start mode

Manual: by pressing the Start button

Start timer: Automatic start with time and date.

Temperature: by automatic start at the temperature threshold.

Stopped by: How the recorder was stopped

Manual: By pressing the Stop button

Memory full: Maximum memory capacity reached

Reset: The recorder has performed a reset.

Off timer: By automatic stop with date and time .

Condition: Current recorder status:

Ready: The recorder is configured and ready to be started.

During startup: the recorder has been started and starts the timer.

Recording: The recorder is running and recording.

Stopped: The recorder no longer records.

Trip Duration: Duration of trip from first to last record.

Duration in specification: Total time in alarm thresholds (no alarm).

Start time: Date and time of first recording

Stop: Date and time of last record when the trip is complete.

Memory used: Indicates memory usage in % and number of records for memory/memory size.

Downloaded at: Date and time the recorder was downloaded.

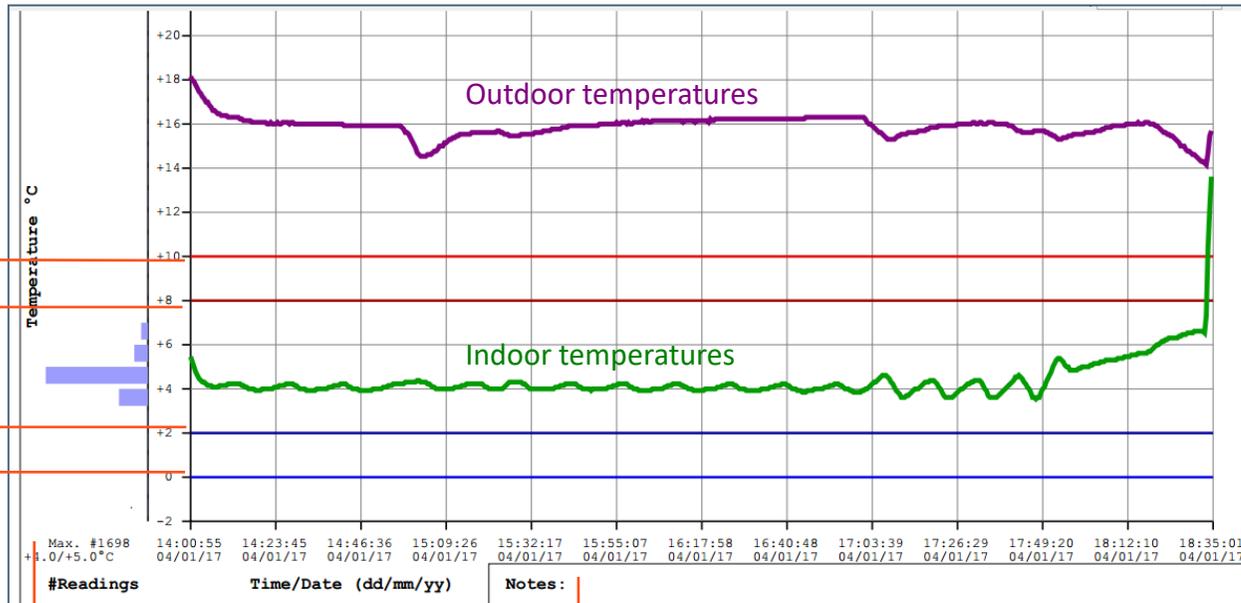
CONNECTING LOGGER, READING FILES

In the second part of the PDF there is a graphical representation of the data recorded during the trip. The curves are plotted on a Temperature/Time (duration) axis.

4

Lower part of PDF
Graphic Representation

Temperature range axis



Alarm

Very High (EH)
and High (H)

Alarm
Very Low (EL)
and Low (L)

The largest number
of recordings is 1698
between +4/+5.

Space to write
Handwritten comments.

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CUSTOMIZE

- ✓ From the automatically generated folder
- ✓ From Sofrigam manager:
Save / Txt / Excel / pdf

SAVING DATA

There are two ways to save the data. When connecting the logger, without having Sofrigam manager on the workstation, it is possible to copy the logger files to a desired folder. It is also possible to save files from Sofrigam Manager with one click.

1

Save by Copy/Paste

The image shows a sequence of three Windows File Explorer windows illustrating the process of saving data. The first window shows the 'iBox (E:)' drive with a list of files: SYSTEM, IB660004.CSV, IB660004.PDF, IB660004.TXT, and IB660004.ZLG. A right-click context menu is open over the selected files, with 'Copier' highlighted. The second window shows the 'March' folder, which is currently empty. The third window shows the same 'March' folder, but now containing the four files copied from the iBox drive. Red arrows and boxes highlight the source files, the destination folder, and the resulting saved files.

In the storage space of the logger, Select files, right-click, copy

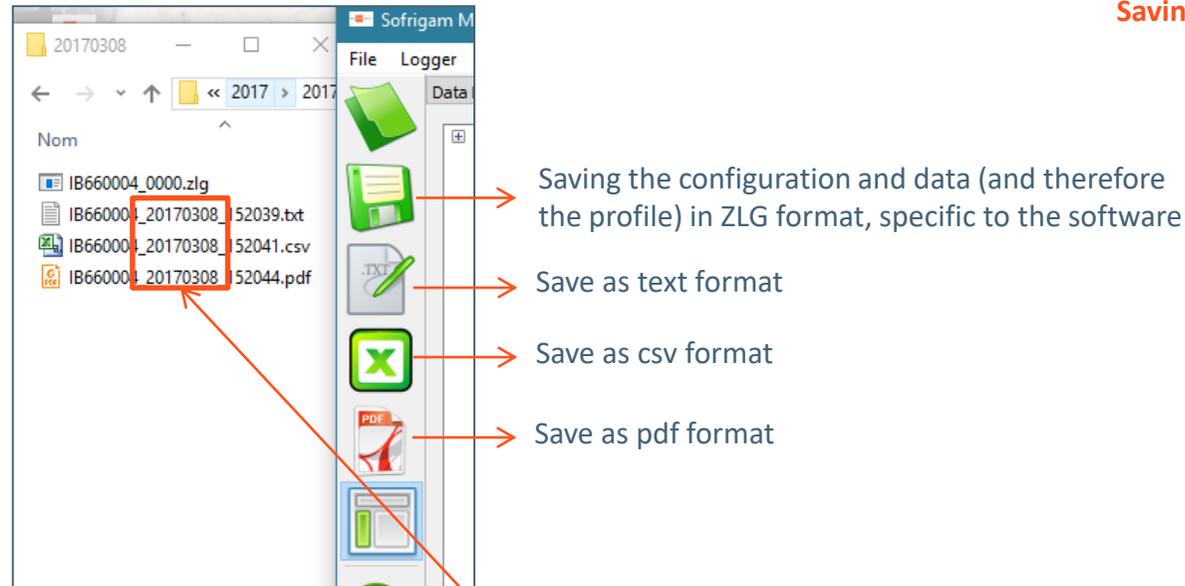
In the folder on your disk or server, right click, paste.

Files are saved

When the backup is done from Sofrigam Manager, in one click the files are saved in the predefined directory in the software preferences. For more information on setting the backup directory, go to the "Customization" section of the manual.

2

Saving from Sofrigam Manager



Saving preferences

It is possible to customize the following elements:

- **The structure** (date, serial number, etc.) of the file names.
- A specific **backup file** .



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CUSTOMIZE

- ✓ Connect the logger to the USB port
- ✓ Fill the configuration fields
- ✓ Configure

1 Fill in a short description

Description: enter a short description (type of logger, type of products, year period etc.)

Password: Must be a password for data reading (optional)

Device name: Data Logger model.

Serial number: The serial number of the data logger.

Firmware version: firmware version of the current recorder

The screenshot shows the Sofrigam Manager 1.04.92 interface. The 'General Settings' section is highlighted with a red box and contains the following information:

Field	Value
Device Name	iBox
Serial Number	IB660004
Description	SofrigamManager Notice
Password	[Empty]

The 'Configuration / Alarms' section shows the following settings:

Alarm Type	Value	Consecutive	Total
Extra high	10,0	00d 00h00m00s	00d 00h01m00s
High	8,0	00d 00h00m00s	00d 00h01m00s
Low	2,0	00d 00h00m00s	00d 00h01m00s
Extra low	0,0	00d 00h00m00s	00d 00h01m00s

Additional settings include: Sampling rate: 00d 00h00m05s; Auto Start Time: 16/08/2016 09:55; Manual Start with delay: 00d 00h05m; Recording Duration: 001d 03h46m40s; Auto Start with Temp.: >= 55,0; with delay: 00h01m; Stop Button Enable: checked.

It is possible to configure a data logger without alarm, or with 1, 2, 3 or 4 thresholds of alarms. Alarms can be activated or deactivated by checking the specific box.



2 Fill in the fields related to alarms

Exemple

- Température d'alarme **haute** supérieure ou égale à 8°C sera hors spécification.
- Température d'alarme **basse** inférieure ou égale à 2°C sera hors spécification.

	Valeur	Consécutives	Totales
Très Haute	<input type="checkbox"/> 0,0	00d 00h00m00s	00d 00h01m00s
Haute	<input checked="" type="checkbox"/> 8,0	00d 00h00m00s	00d 00h01m00s
Basse	<input checked="" type="checkbox"/> 2,0	00d 00h00m00s	00d 00h01m00s
Très Basse	<input checked="" type="checkbox"/> 0,0	00d 00h00m00s	00d 00h01m00s

Each alarm threshold has a **consecutive and/or total delay before the alarm** that can trigger the alarm according to a preset value, an "out-specification" duration and a type of offset.

Warning

It is mandatory to set a high alarm before specifying if there will be a very high alarm. The same is true for the low and very low alarm .

Once the description, the programmed alarms and the start and stop mode have been defined, the configuration can be started by clicking on configuration.

3 Select the start and stop mode of the recorder

START

Automatically at a predefined date & time ←

Manual, by pressing the Start key, with or without delay ←

Automatic over a certain temperature threshold ←

4 Configure

OFF automatically after a recording time.

OFF automatically at the desired time and date.

Some examples.

The recorder starts manually by pressing the start button without any delay. The recording interval is 10 minutes and stops automatically after 100 days.

Configuration details for manual start with 100-day duration:

- Sampling rate: 00d 00:10:00 (10 minutes)
- Auto Start Time: 16/04/2016 15:23
- Auto Stop Time: 16/04/2016 15:24
- Manual Start + delay: 00d 00h00m
- Recording Duration: 100d 00h00m00s
- Auto Start with Temp. + delay: >= 55.0, 00h10m

The recorder starts automatically at 5:15 pm on June 28, 2016. It can also be started manually by pressing the start button without any delay. The recording interval is 5 minutes and stops automatically at 17:15 on July 28, 2016.

Configuration details for auto start on 28/06/2016 17:15:

- Sampling rate: 00d 00:05:00 (5 minutes)
- Auto Start Time: 28/06/2016 17:15
- Auto Stop Time: 28/07/2016 17:15
- Manual Start + delay: 00d 00h00m
- Recording Duration: 070d 04h40m00s
- Auto Start with Temp. + delay: >= 55.0, 00h10m

The recorder starts manually by pressing the start button with a delay of 30 minutes. The recording interval is 5 minutes stops automatically at 17:16 on June 28, 2016.

Configuration details for manual start with 30-minute delay:

- Sampling rate: 00d 00:05:00 (5 minutes)
- Auto Start Time: 28/06/2016 17:15
- Auto Stop Time: 28/06/2016 17:16
- Manual Start + delay: 00d 00h30m
- Recording Duration: 001d 04h00m00s
- Auto Start with Temp. + delay: >= 55.0, 00h01m

The recorder starts manually by pressing the start button immediately, or starts automatically if the temperature is greater than or equal to 55 °C for 10 consecutive minutes. The recording interval is 5 minutes and the recorder stops automatically after 70 days, 4 hours and 40 minutes.

Configuration details for auto start based on temperature:

- Sampling rate: 00d 00:05:00 (5 minutes)
- Auto Start Time: 28/06/2016 17:15
- Auto Stop Time: 28/06/2016 17:16
- Manual Start + delay: 00d 00h00m
- Recording Duration: 070d 04h40m00s
- Auto Start with Temp. + delay: >= 55.0, 00h10m

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CUSTOMIZE

- ✓ Set the backup folder
- ✓ File format
- ✓ Choice of graphic elements

CUSTOMIZATION

Sofrigam manager allows customization at several levels: backup folder, file types generated upon logger connection, file generation or not upon logger connection, graph colors, data types, or elements present in the summary pdf. To change the preferences, go to the File> Preferences menu.

The screenshot shows the 'Sofrigam Manager 1.04.94' window with the 'General' tab selected. The window is divided into two main sections: 'Defaults Settings' and 'On Logger Detection'. Red arrows point from text labels on the left to specific fields in the dialog box. The 'Defaults Settings' section includes a 'Home Path' field with a file browser button, radio buttons for 'Create sub-folder by:' (None, Date, Device Name, Serial Number, Description), dropdown menus for 'Language:' (Francais) and 'Time Zone:' (Europe/Paris), a 'Temperature Unit:' dropdown (Celsius), dropdown menus for 'Excel CSV Separator:' (;) and 'Excel Decimal:' (.), and a text field for 'MKT Activation Energy (kJ/mol):' (83.1447). The 'On Logger Detection' section includes a checked 'Set Tab' checkbox with a 'Configure' dropdown, and several unchecked checkboxes: 'Save ZLG', 'Add date and time to file name.', 'Save TXT', 'Save CSV', 'Save PDF', and 'Save JPG'. The 'Open PDF' checkbox is checked.

Select the default directory where the files will be saved

Current Language

Country/city time or UTC format

Celsius / Fahrenheit

CSV separator character (*)

Set the activation energy value

Automatically generates and saves the desired file format in the default folder as soon as the recorder is connected.

1

"General" tab

(*) Europe uses ";" semicolon while the US uses "," comma

Color/Width/Themes:
Customize all aspects of the graph such as the color and thickness of the frames

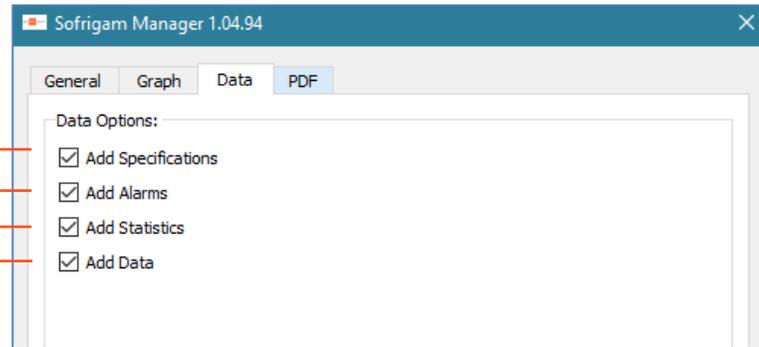


Theme choice: white, gray or black.

Default zoom to have all the information on the screen.

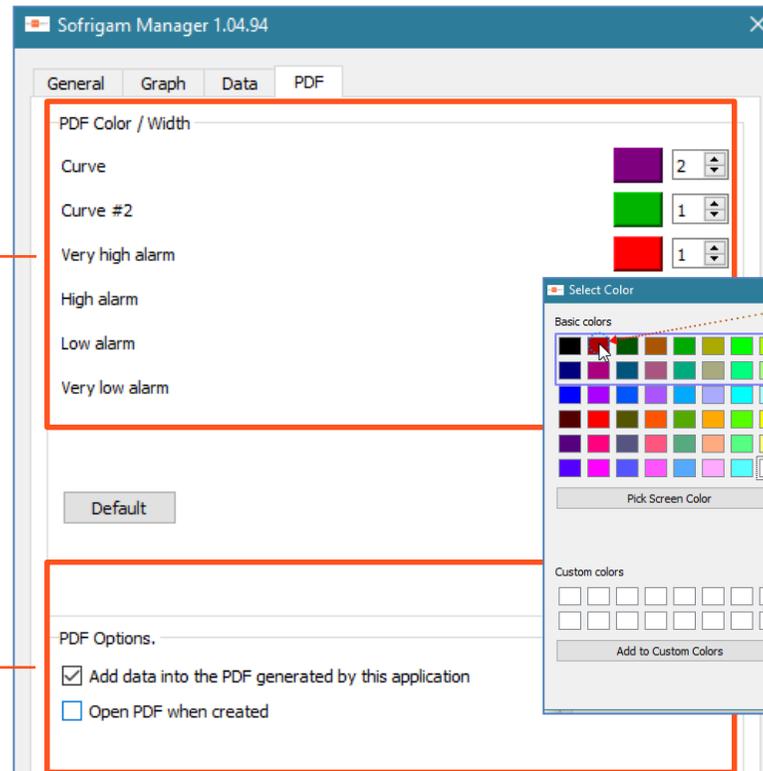
Style lines: select the alarm thresholds indicated by lines for each zone.

2 "Graphic" tab



ADD:
Logger information and configuration
Alarms: thresholds, delays, etc.
Basic stats: min, average, max, mkt
all recorded data

3 "Data" tab
Select information
Visualize.



Customize the color and thickness of
the curve and of alarm thresholds

4 "PDF" tab
Customize PDF generated by
the data logger.

Select the data to be added in the
application-generated PDF



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