

## USER MANUAL

# TRACKLOG WEB & MOBILE APPLICATION



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# 1. WARNING AND SAFETY INSTRUCTIONS

## 1.1 Exclusions and restrictions of liability

The application operation is under the exclusive customer or user entity responsibility, who acknowledges using this system at his/her own risks. The customer or user entity explicitly excludes Sauermann and every other company through which the it could have been sold of any kind of responsibility or warranty regarding any direct, indirect, accidental, consecutive or non-consecutive damage that could have been subjected, for some or all, by partial or total non-respect, voluntary or involuntary, of recommendations, conditions and prerequisites indicated hereafter.


Sauermann provides the TrackLog data loggers, the gateway and the cloud service, where the data from the instruments is stored. To guarantee the good performance of the system, the connection between all its components must have a good quality. For instance, the data loggers must have enough LoRa<sup>®</sup> signal strength between each data logger and the gateway, and the gateway must have a good connection to Internet to be able to load the data into the cloud. Sauermann is not responsible for the quality of these connections. For suggestions and troubleshooting on how to have a good connection see chapter 11 Device state.

The TrackLog solution is supplied with the corresponding gateway that provides the necessary coverage for a standard application. However, due to specific conditions, such as facility's geometry, walls, distance between measuring spots and the gateway, or interferences created by other existing wireless networks or electric/electronic devices or installations, the instruments may not be able to have the minimum signal coverage across all the end user's facility. Therefore, Sauermann has no liability on the functioning of the TrackLog solution. Should such situation happen, Sauermann can propose the best solution according to each case.

## 1.2 Exclusions and warranty limitations

Sauermann guarantees that the application, which is made available for the customer or user entity through digital content such as a DVD or a downloaded link as indicated in our commercial documents, are in a state enabling its correct installation and operation. Within the limits of the law, this warranty is exclusive. Therefore, we do not guarantee the application operation after its availability to the customer or user entity of this digital support or downloaded link. There is no other explicit or implicit guarantee regarding the application merchantability and fitness for a particular purpose. The customer or user entity acknowledges accepting all the present guarantee limitations or exclusions.

## 1.3 Symbols used

For your safety and in order to avoid any damage of the device, please follow the procedure described in this user manual and read carefully the notes preceded by the following symbol: 

The following symbol will also be used in this user manual:  
Please read carefully the information notes indicated after this symbol.





## 2. APPLICATION PRESENTATION

**TrackLog App** is an application which allows measurements data storage from you Data Loggers up to 3 years and data consultation up to 2 years.

Two versions of the application are available:

- A web Application to work on a computer with a web browser
- A mobile Application for smartphones and tablets

### 2.1 Web application

The web application is “dematerialised” and only available through a portal. It is accessible with an identification and password and usable after an account creation via a Cloud subscription offer.

This portal allows the user to manage the alarms, recover, consult and export measured and stored data on the Cloud.

**TrackLog Web** application proposes to manage sites and areas where your devices are located, and user profiles management with an access rights system. These functions are available only on the web version of the application.

### 2.2 Mobile application

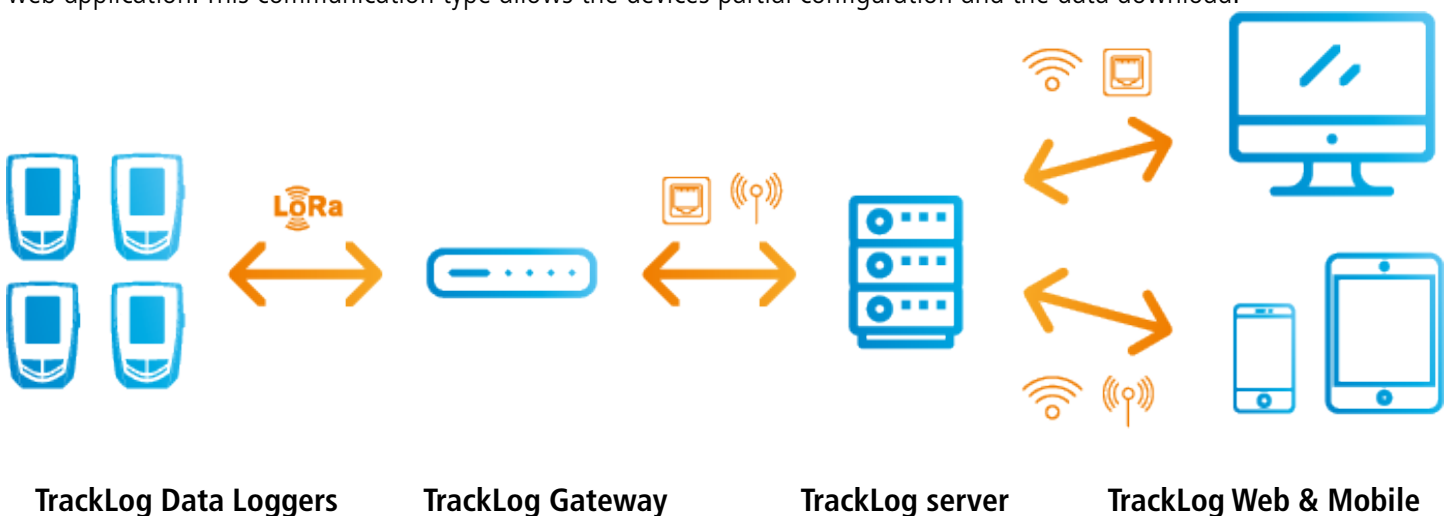
The application is available for iOS and Android. It provides the same functionalities as the web portal according to the alarms, data recovering, analyse and export management. However, the sites, areas and users management is only available on the web application.

A notifications system allows to monitor in real time your Data Loggers alarms states directly from your mobile.

### 2.3 Operating principle

The communication between the device and the computer is carried out with an USB cable thanks to a micro-USB female connector. This communication type allows the devices complete configuration and update.

The radio LoRa® communication is carried out between the gateway and the TrackLog. It allows a communication with smartphones and tablets working with Android and iOS via the mobile application and with Windows® computers via the web application. This communication type allows the devices partial configuration and the data download.



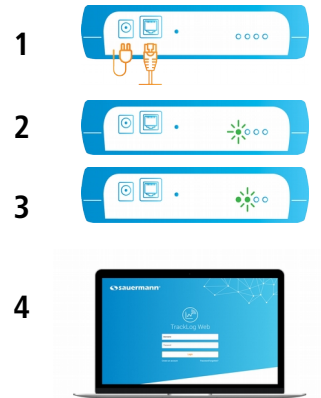
The Bluetooth® low consumption radio communication allows to communicate with smartphones and tablets working with Android and iOS. This communication type allows the complete configuration of devices and the data download.

## 2.4 Connection to LoRa® network

When delivered, to connect TrackLog to LoRa® network, it is necessary to follow this procedure:

### 2.4.1 Gateway

1. Connect the gateway to the mains and connect the Ethernet jack.
2. The LED flashes when it is connected to the electricity grid.
3. The fixed LED indicates that the Gateway is connected to the LoRa® network.  
*This operation can take a few minutes. Please, wait...*
4. Log in to tracklog.inair.cloud <http://tracklog.inair.cloud> to set your TrackLog Data Loggers and launch a dataset.



### 2.4.2 Device

The **"Cloud"** icon on the TrackLog device flashes and **"Sync"** displays.

Then **"Sync"** disappears, the cloud becomes fix and **OK** displays when the TrackLog is successfully connected to the LoRa® network.



**OK** disappears after 5 seconds.



If the **"Cloud"** icon keeps flashing and **"Sync Err"** displays on screen, it is necessary to reattempt a connection to LoRa® network.

➤ Press TrackLog **OK** key.



**If the connection to LoRa® network does not work, please check that the 1700 port is open in UDP on the Ethernet network on which the gateway is plugged.**


## 3. APPLICATION INSTALLATION

### 3.1 *Minimum required configuration*

- **Web application:**  
Computer with an internet connection and an USB port (for devices configuration and update)  
Web browser: Chrome / Firefox / Edge / Safari (last stable release)
- **Mobile application:**  
Android 4.4, iOS 8

### 3.2 *Mobile application installation*



- Enter **"TrackLog Mobile"** in the search bar and validate.
- Download the application pressing  (a blue circular icon with a white signal tower and a line graph).
- Follow your mobile application indications.

### 3.3 *Web application*

The web application is "dematerialised" and only available through a portal. Therefore, no installation is necessary.

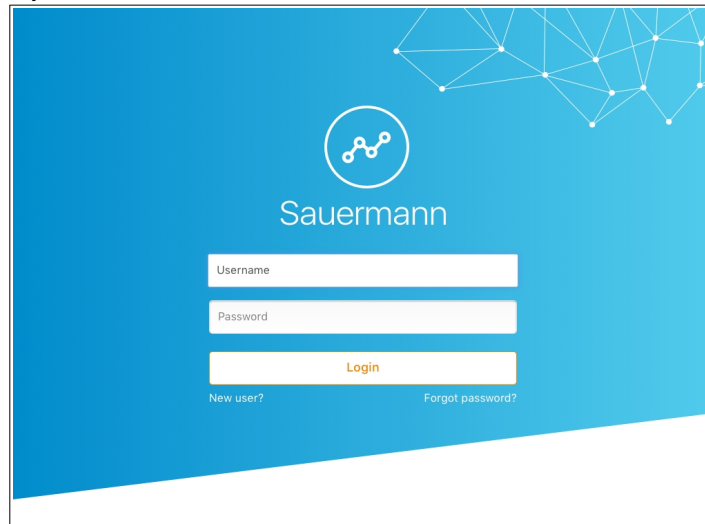
To access **TrackLog Web** application portal, see page 8.

## 4. START WITH THE APPLICATION


### 4.1 Launch the application

#### 4.1.1 Web application

- Check that your computer is connected to internet.
- Open the web browser.
- Go to the following Internet page: <http://tracklog.inair.cloud/>  
*The following identification page opens.*
- You can add the page in your favourite list.





#### 4.1.2 Mobile application

- Launch the application pressing 

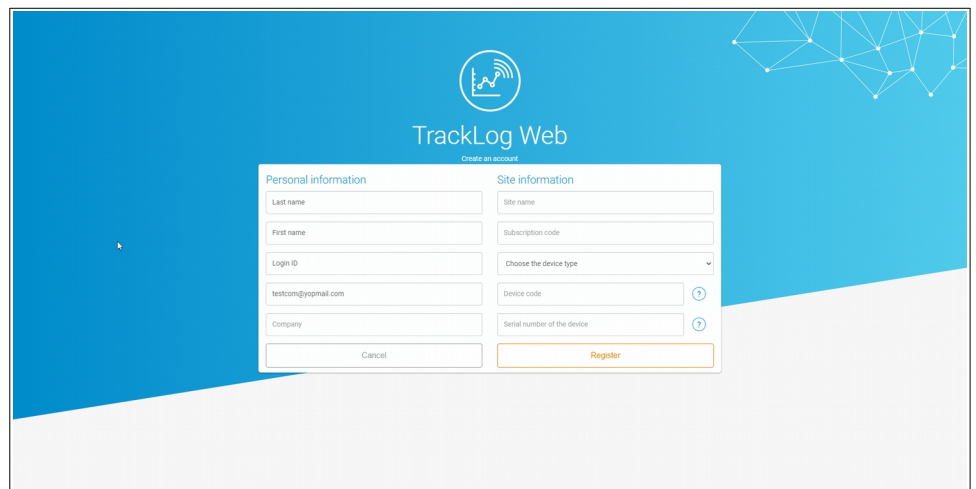
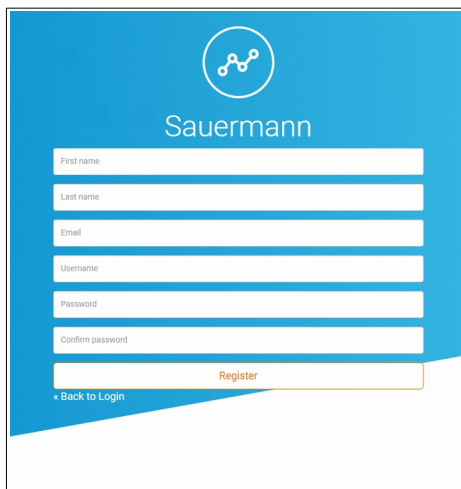
### 4.2 Create a user account

For the first use of the application, it is necessary to create a user account.

-  **The account creation is available only on the web version of the application.**
-  **A TrackLog device "in-hand" is necessary to create an account. The device code and its serial number will be needed to finalise the account creation.**

*From the identification page:*

- Click **"New user"**. A confirmation email has been sent to the provided email address. It contains a link to activate your account. **This link will expire in 72 hours.**



- Fill in the subscription code (the solution provider generates this subscription code after the subscription).

Then fill in the site information:

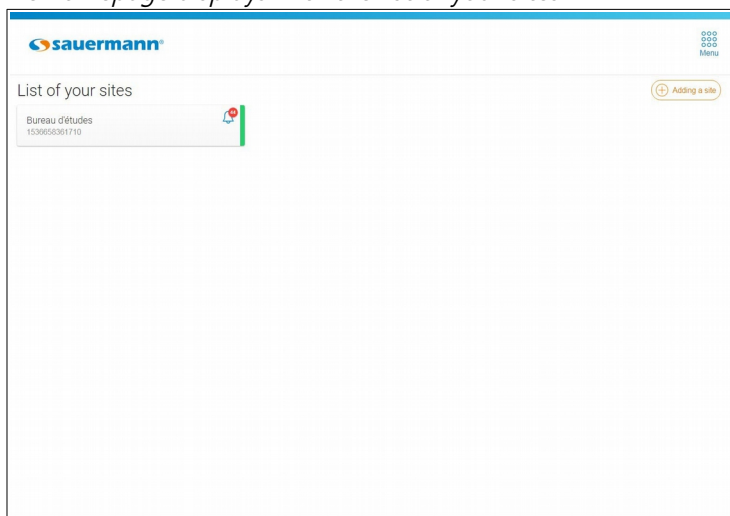
- Select a type of device to add.
- Enter a site name.
- Fill in the device code and its serial number: this information is on the label on the right side of the device.
- Click **"Register"**.  
*A confirmation e-mail is sent to the filled in e-mail address.*
- Click the link in the e-mail to finalise the registration.

### 4.3 Connection to the Cloud

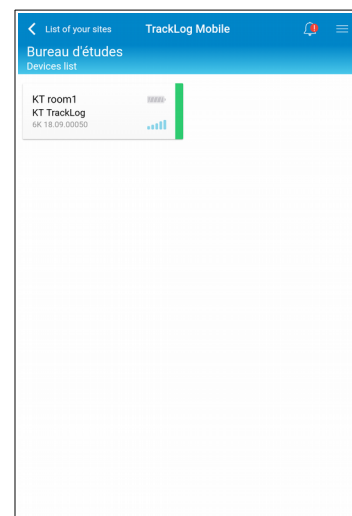
Once your user account created:

- Fill in your user name and password.
- Click **"Connection"**.

*The homepage displays with the list of your sites:*



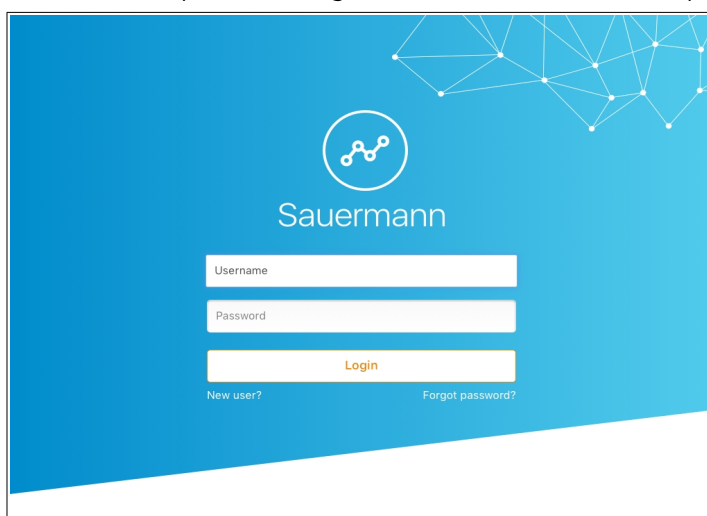
**Web application**



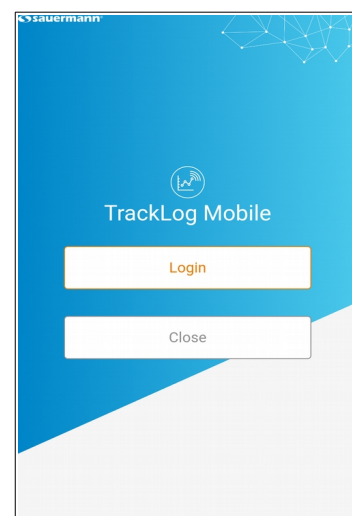
**Mobile application**

### 4.4 Forgotten ID or password

In case of user name or password forgotten, from the identification page:

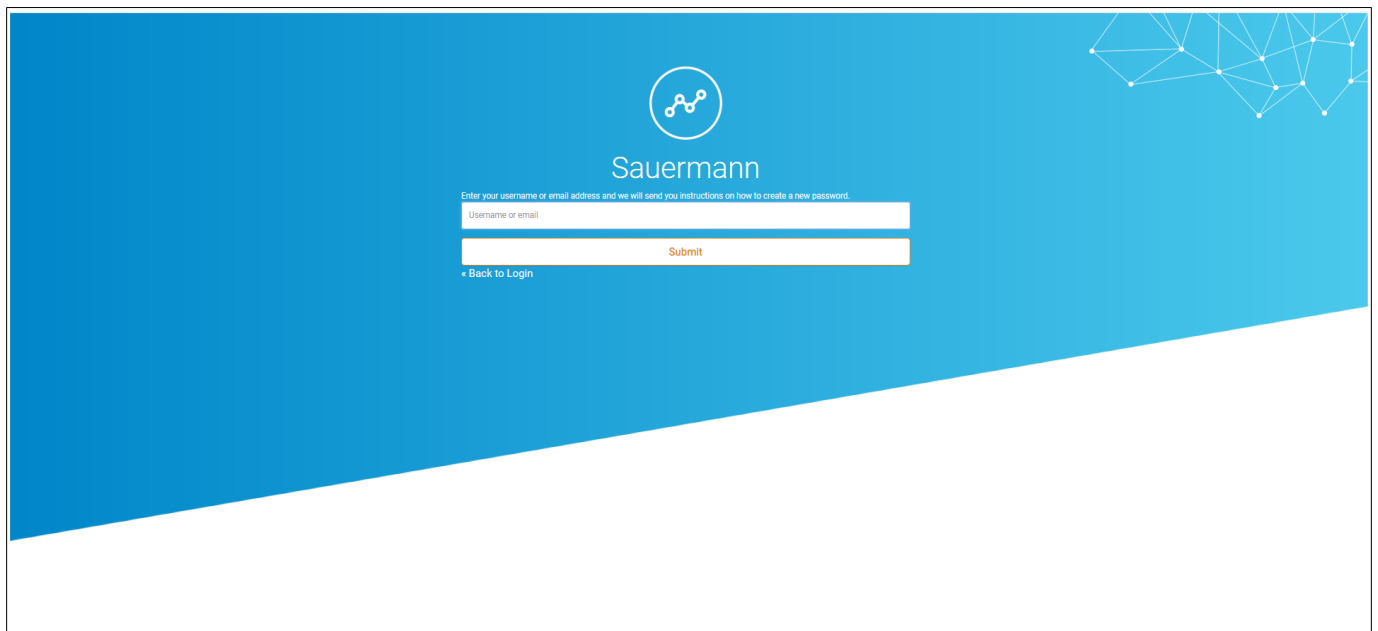


**Web application**



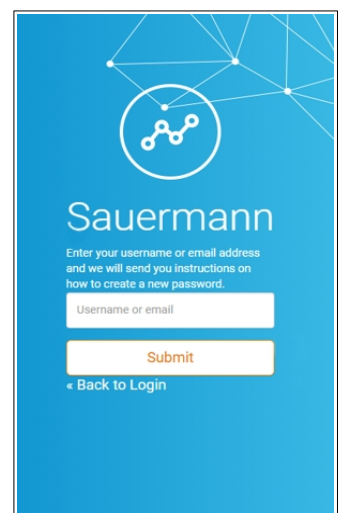
**Mobile application**

- Click **"Forgot password?"**.  
*The following page displays:*

The image shows a web application interface for a 'Forgot password' screen. The background is a solid blue color with a white geometric pattern of interconnected dots and lines in the top right corner. In the center, there is a white circular logo containing a stylized network diagram. Below the logo, the word 'Sauermann' is written in a white sans-serif font. Underneath the name, there is a line of small white text: 'Enter your username or email address and we will send you instructions on how to create a new password.' This is followed by a white rectangular input field with the placeholder text 'Username or email'. Below the input field is a white rectangular button with the word 'Submit' in orange. At the bottom left of the form area, there is a small white link that says '« Back to Login'.

***Web application***

- Fill in your e-mail address and click on **"Submit"**.  
*A recovery e-mail with your user name and a temporary password is sent to the filled e-mail address.*







The image shows a mobile application interface for a 'Forgot password' screen. The background is a solid blue color with a white geometric pattern of interconnected dots and lines in the top right corner. In the center, there is a white circular logo containing a stylized network diagram. Below the logo, the word 'Sauermann' is written in a white sans-serif font. Underneath the name, there is a line of small white text: 'Enter your username or email address and we will send you instructions on how to create a new password.' This is followed by a white rectangular input field with the placeholder text 'Username or email'. Below the input field is a white rectangular button with the word 'Submit' in orange. At the bottom left of the form area, there is a small white link that says '« Back to Login'.

***Mobile application***




### 5.1 Buttons

	Administration diary		Settings
	Event diary		Information
	Data exportation		Log out
	Data download		

#### Web application

	Main menu
	Back to the devices list
	Back to the sites list
	Add
	Modify
	Delete

#### Mobile application

	Main menu
	Back to homepage
	Back to previous screen

### 5.2 Settings

#### 5.2.1 Web application

From the web application, in the settings, it is possible to:

- Manage your account (see page 17)
- Manage the users (see page 15)
- Manage users profiles (see page 17)
- Manage subscriptions (see page 43)



**These functions are available only from the WEB version of the application.**

To access settings:

- Go to the menu clicking  then  **"Settings"**.

#### 5.2.2 Mobile application

From the mobile application, in settings it is possible to:

- Activate the automatic connection to the application (see page 31)
- Activate the notifications (see page 31)



**These functions are available only from the MOBILE version of the application.**




To access the settings:

- Go to the menu  then  **"Settings"**.




## 5.3 Application information

To access the application information:

Web application:

- Go to the menu clicking  then  **"Information"**.  
*The application version, operating system and browser displays on screen.*
- Click  to go back to the sites list.




Mobile application:

- Go to the menu clicking menu  then  **"Information"**.  
*The application version and licences are displayed.*
- Press **"Display the licences"** to get details.
- Press  to escape.

## 5.4 Download the user manual

To download the user manual:

Web application:

- Go to the menu clicking  then  **"Information"**.
- Click **"Download the manual"**.
- Click  to go back to the sites list.

Mobile application:

- Go to the menu  then  **"Information"**.
- Press **"Download the user manual"**.

## 5.5 Access the Customer service portal

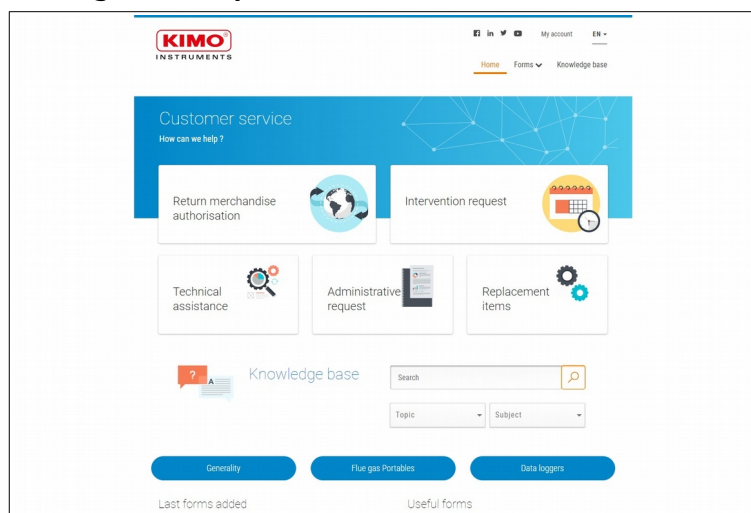
For any question on the device operation or system and before contacting a technician, please consult our [Customer service portal](#). It allows to search complementary information in our knowledge base from a specific theme or subject, consult the support sheets, FAQ...

Web application:

- Go to the menu clicking  then  **"Information"**.
- Press **"Access the TrackLog services portal"**.

Mobile application:

- Go to the menu  then  **"Informations"**.
- Press **"Access the TrackLog services portal"**.







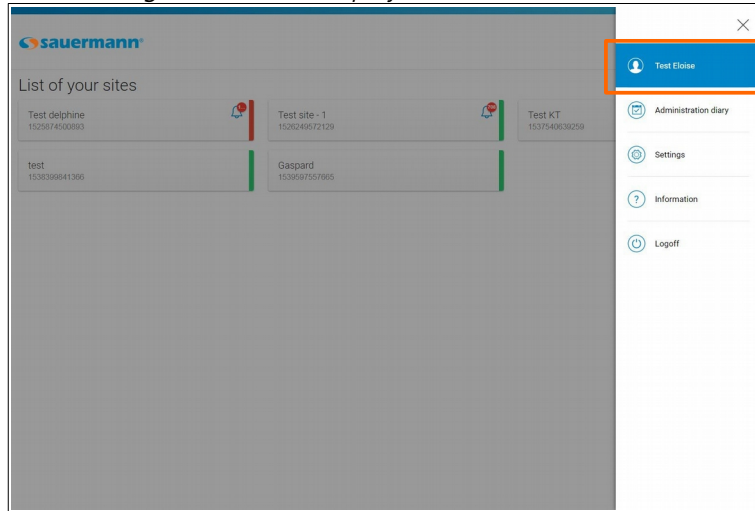
## 6. ACCOUNT MANAGEMENT

### 6.1 Identify the connected user

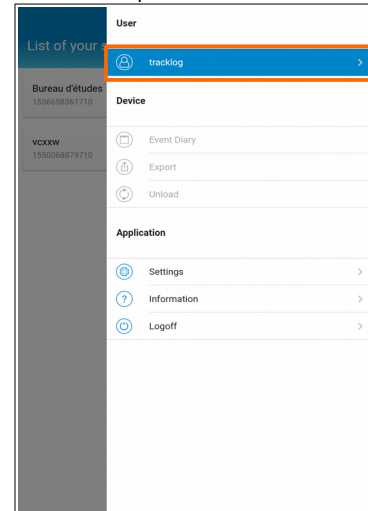
From the sites list:

- Web application: go to the menu clicking 
- Mobile application: go to the menu 

The following lateral menu displays. The current connected user is indicated on top of the menu:



*Web application*



*Mobile application*

- Click the user to access directly the account information.

### 6.2 Manage my account



These functions are available only from the WEB version of the application.

- Go to the menu clicking  then  "**Settings**".  
User information currently connected are displayed.

In "**Account information**":

- Fill in the fields: name, first name, e-mail, telephone, company.
- Click the flag in front of the "**Telephone**" field to select the country.



The "**User name**" field can not be modified. It corresponds to the chosen user name during the account creation (see page 8).

In "**Notification settings**":

- Tick "**E-mail notifications**" box to receive alerts by mail.
- Tick "**SMS alerts**" box to receive alerts by SMS.  
The "**Receive threshold alarms**" and "**Receive technical alarms**" boxes are automatically ticked.



The SMS option is activated with your subscription offer.



Only "**Administrator**" and users created from this account can tick the "**SMS alerts**" box.

Home

Sites

Devices

Menu

Settings

My account

Users

Profiles

Subscription

My account

Account Information

Login ID

xxxxxx

Last name

xxxxxx

First name

xxxxxx

E-mail address

xxxxxx

Telephone

xxxxxx

Company

xxxxxx

Password management

Password validity

Password validity duration for different sites (in days)

60

Notification settings

Email notifications

☐ Receive alarms on thresholds

☒ Receive technical alarms


SMS alerting

☒ Receive alarms on thresholds

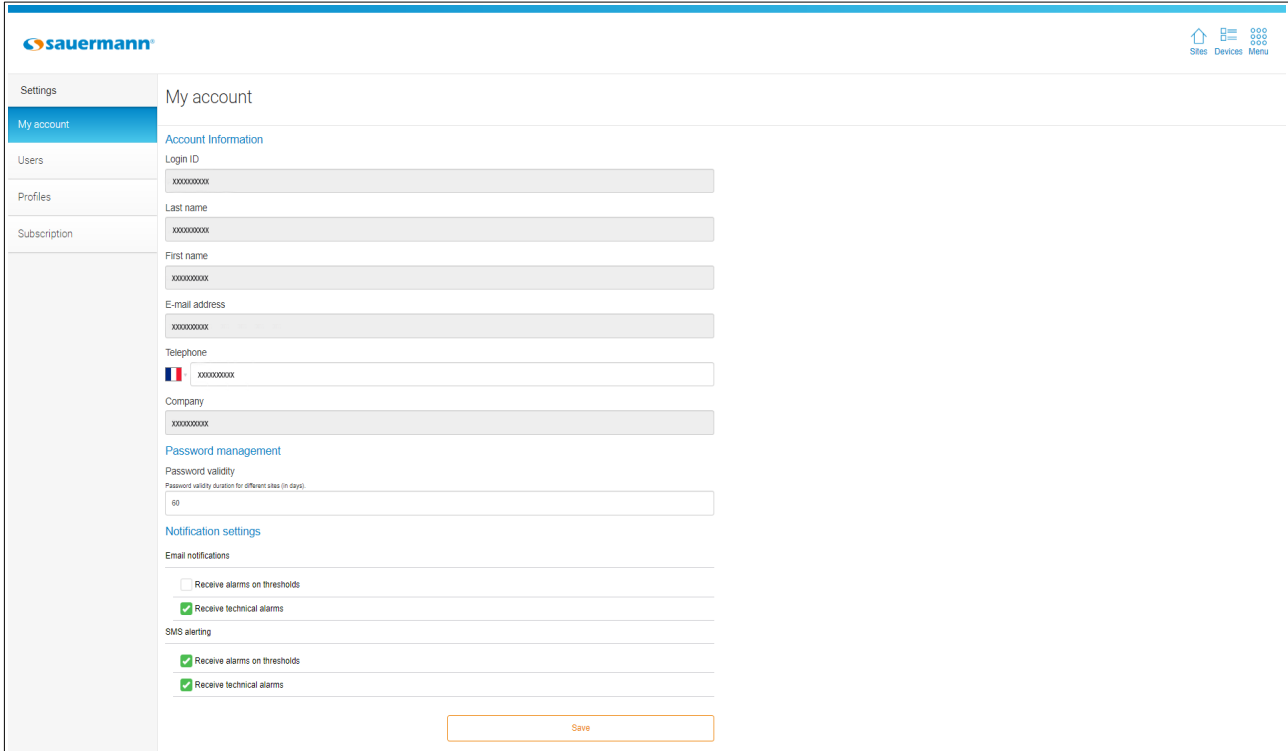
☒ Receive technical alarms

Save

## 7. USERS MANAGEMENT

 These functions are available only from the WEB version of the application, from an "Administrator" account or if the rights have been attributed on a user account (see table page 18)

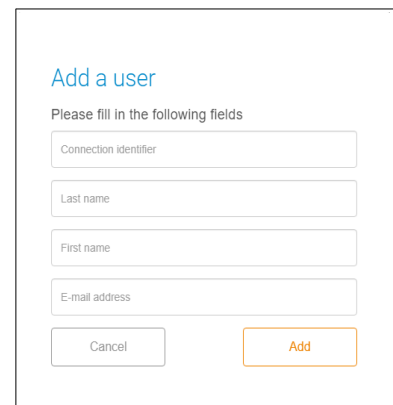
- Go to the menu clicking  then  "Settings".  
*The following screen displays:*



### 7.1 Add a user

From the "Settings" page:

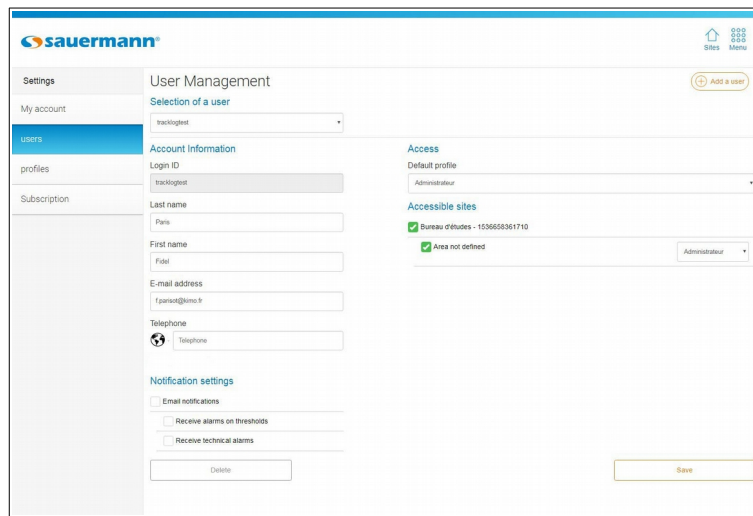
- Click "Users".
- Click "+ Add a user" on top left of the window.  
*The following window opens.*
- Fill in the fields: connection user name, name, first name, & e-mail.
- Click "Add".  
*The added user appears in the user list.*



## 7.2 Modify a user

From the **"Users management"**:

- In the scrolling list, select the user to modify.  
*The following window opens:*



The screenshot shows the 'User Management' interface for 'sauermann'. On the left is a sidebar with 'Users' selected. The main area is titled 'Selection of a user' and shows details for user 'tracklogtest'. The details are organized into sections: 'Account Information' (Login ID, Last name, First name, Ficti, E-mail address, Telephone), 'Access' (Default profile, Accessible sites), and 'Notification settings' (Email notifications, Receive alarms on thresholds, Receive technical alarms). There are 'Delete' and 'Save' buttons at the bottom.


- In the **"Account information"**, modify if needed the name, first name, e-mail address. Modify the telephone (only for subscription offers with the SMS option activated).
- In **"Alerts management"**, tick **"E-mail alerts"** box, then the boxes to receive the threshold alarms and/or the technical alarms by e-mail.
- In the **"Access"** part, assign a **"Default profile"** to this user. Users profiles are detailed page 17.
- In **"Accessible sites"**, select the sites or areas that will be accessible for this user by ticking the corresponding boxes. The sites or areas management is detailed page 20.
- Once the modifications completed, click **"Save"**.

## 7.3 Delete a user

From the **"Users management"** page:



- In the scrolling list, select the user to delete.  
*The user details displays.*
- Click **"Delete"**.  
*A confirmation message displays.*
- Confirm deletion clicking **"OK"**.

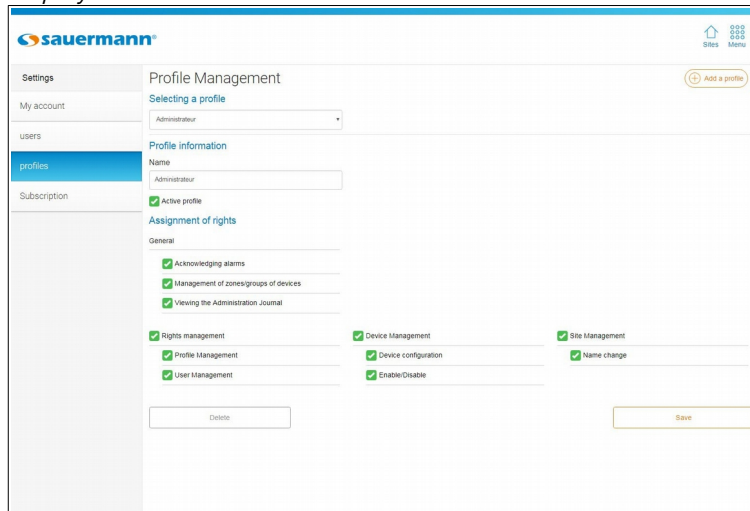
## 8. USERS PROFILES MANAGEMENT

 These functions are available only from the WEB version of the application, from an "Administrator" account or if the rights have been attributed on a user account (see table page 18)

Profiles creation and assignment creates users groups. This allows to assign access rights according to the users profiles. Therefore, only some sites or areas can be available by parts of the users. It is the same for the authorized actions type.

To access the profiles management:

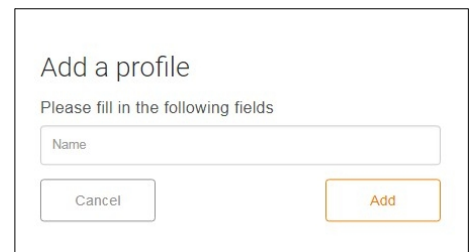
- Go to the menu clicking  then  "Settings".  
*The following screen is displayed:*
- Click "Profiles".  
*The following screen displays:*



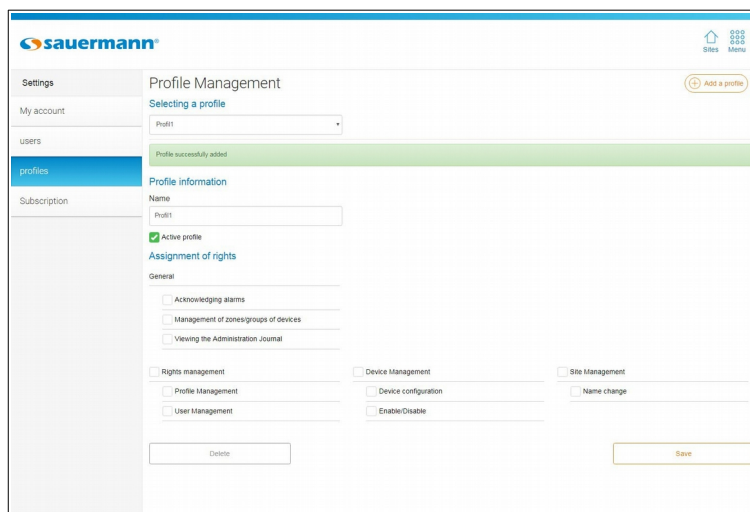
### 8.1 Add a user profile

From the "Profiles management" screen:

- Click "+ Add a profile" on top right of the page to add a profile.  
*The following page displays.*
- Fill in a profile name.
- Click "Add".



*The profile is added in the profiles name. The profile configuration page displays:*



## 8.2 Set a user profile

From the **"Profiles management"** page:

- In the scrolling list, select the profile to set.  
*The profile details displays.*

It is then possible to:

- Modify the profile name.
- Activate or deactivate the profile ticking or unticking **"Active profile"** box.
- Modify the profile rights by ticking or unticking the required boxes:
  - Rights management: profiles and users management
  - Devices management: devices configuration, activation/deactivation
  - Sites management: name modification
  - General: alarms acknowledgement, areas/devices groups management, administration diary consultation.

- Click **"Save"**.

## 8.3 Default rights according to the users profiles

	Administrator	Operator	Consultation and acknowledgement	Consultation
<b>General</b>				
Alarms acknowledgement	+	+	+	-
Areas/devices groups management	+	+	-	-
Administration diary consultation	+	+	-	-
<b>Rights management</b>				
Profiles management	+	-	-	-
Users management	+	-	-	-
<b>Devices management</b>				
Devices configuration	+	+	-	-
Activation/Deactivation	+	+	-	-
<b>Sites management</b>				
Name modification	+	-	-	-

## 8.4 Delete a user profile

From the **"Profiles management"** page:

- In the scrolling list, select the profiles to delete.
- Click **"Delete"**.  
*A confirmation message displays.*
- Confirm deletion clicking **"OK"**.



**It is not possible to delete a profile assigned to a user.**

## 9. SITES AND AREAS MANAGEMENT



These functions are available only from the WEB version of the application.

The sites can be divided in several areas and the areas allow to create devices groups.

### 9.1 Sites management

A site name is chosen during the account creation (see page 8). It is possible to add a site or modify an existing site.

#### 9.1.1 Add a site



It is compulsory to link one site to one TrackLog device identification. The identification number of the software is therefore usable one time for a site creation. It is necessary to use a different identification for each new site to add.

To add a site:

- From the homepage displaying your sites list, click **"Add a site"**.

The following page displays:



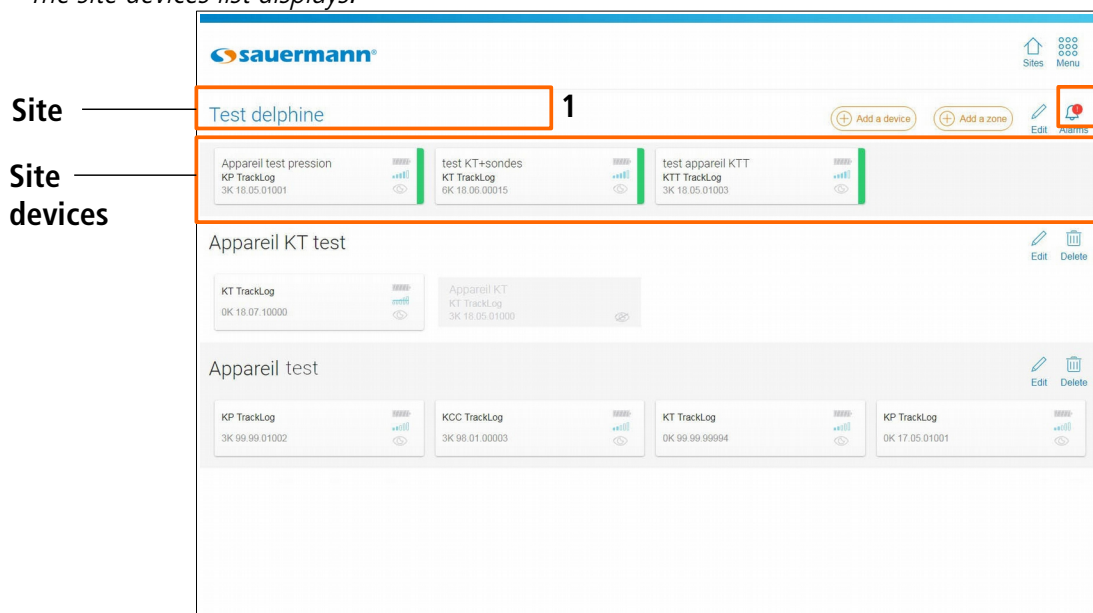
- Fill in a name for the site to add.
- Click **"Add"**.


#### 9.1.2 Modify a site

To modify a site name:

- From the homepage displaying your sites list, select the site to modify.

The site devices list displays:



- Click  in front of the site to modify (1).

The following page displays:

- Modify the site name.
- Click **"Save"**.





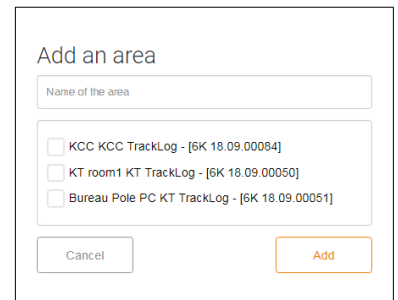
## 9.2 Areas management

From the homepage displaying your sites list, it is possible to define areas or devices groups.

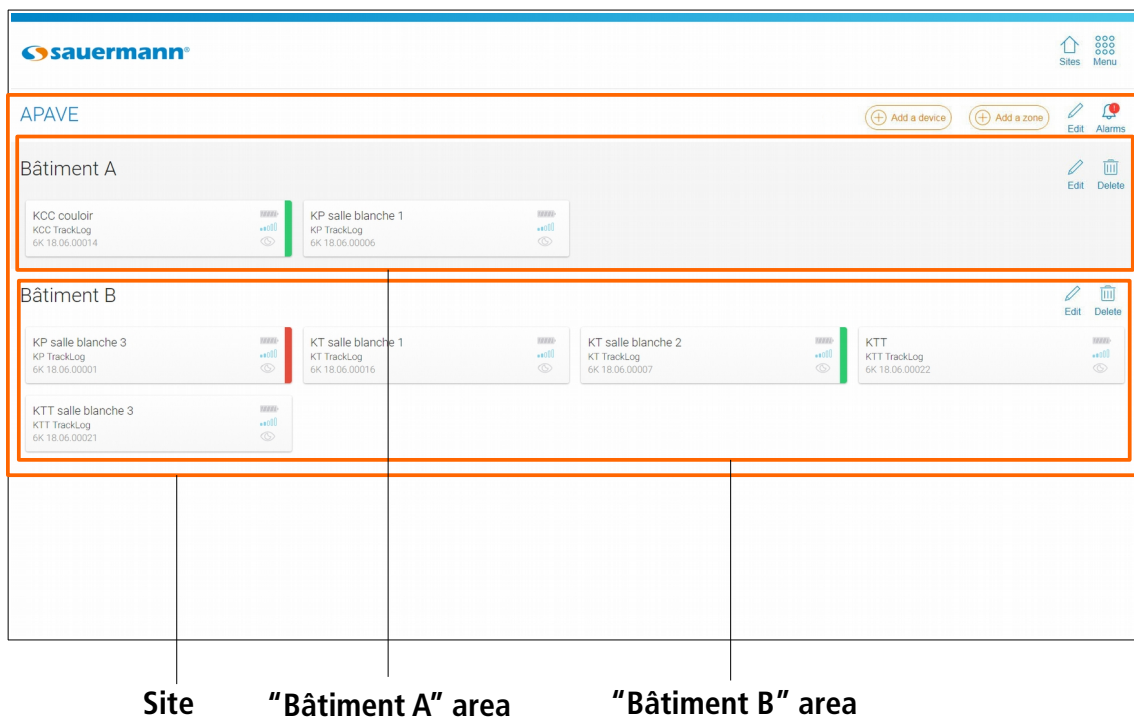
### 9.2.1 Add an area

To define areas:

- Click the site in which areas definition is required.  
*The devices list displays.*
- Click **" + Add an area "** button.  
*The following page displays.*
- Define an area name then select the devices in the list to add them to this area.
- Click **"Add"**.




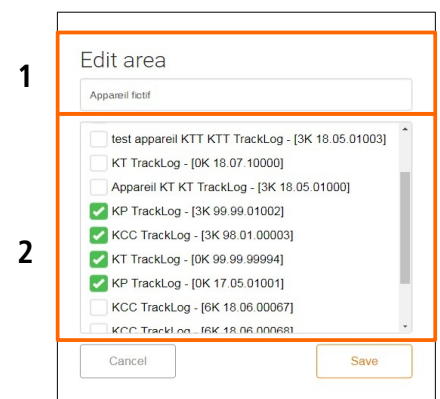
*Selected devices are added to the created area:*



### 9.2.2 Move a device to another area


To move a device to another area:

- Click  in front of the target area.  
*The following page displays:*
- The first field **(1)** indicates the name of the target area. In the devices list **(2)**, tick the devices to move.
- Click **"Save"**.  
*Devices are moved to the indicated area.*



### 9.2.3 Delete an area

To delete an area:

- Click  in front of the area to delete.  
*A confirmation message displays.*
- Click **"OK"** to confirm the area deletion.

## 10. CONFIGURE A TRACKLOG

Two configuration types are available:

- Simplified: this configuration is carried out with the mobile (Bluetooth®) and web (LoRa®) application
- Complete: this configuration is carried out with the mobile (Bluetooth®) and web (USB) application

The simplified configuration is only available during a recording dataset. Therefore, it is compulsory to use the Data Logger complete configuration via Bluetooth® or USB, before carrying out a simplified configuration.

### 10.1 Complete configuration

#### 10.1.1 In USB with the web application



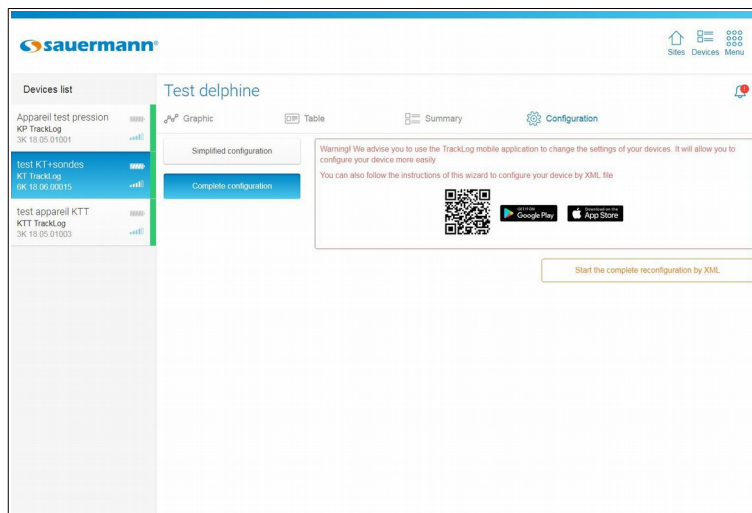
A TrackLog must already be assigned to a site and/or an area.

- Click the device to set.  
*The following page displays:*



- Click **"Configuration"** then **"Complete configuration"**.

- The following page displays.



- Click **“Launch an XML complete reconfiguration”**.  
The following window displays, with the type of device fields already filled:

- Click **“Next”**.  
The following window opens:

- Click **“XML configuration”** line.  
➤ Connect the TrackLog in USB on your computer.  
A code of 4 digits displays on the TrackLog screen.

- Fill in the **"Configuration code"** field, then click **"Next"**.

The following window opens:

The left screenshot shows the 'Device configuration' window. It includes a 'Device' section with fields for Name (KTT TrackLog), Serial number (6K 18 06 00020), and Version (1.00 B160). Below this is a 'Load a configuration' button. The 'Display' section has checkboxes for 'Enabled' (checked) and 'Protected'. The 'LEDs' section has checkboxes for 'alarms' (checked) and 'Operation' (checked). The 'Campaign' section has fields for 'Name' (TrackLog) and 'comments'. The right screenshot shows the 'intervals' section with 'Recording interval' and 'Measurement interval' both set to 2 minutes. The 'Configuration' section includes 'Registration mode' (Instantly) and 'Start type' (Immediate). The 'Channel configuration' section lists four channels: Channel 1 - Voie 1 [°F] Thermocouple K, Channel 2 - Voie 2 [°F], Channel 3 - Voie 3 [°F] Thermocouple K, and Channel 4 - Voie 4 [°F]. The 'Save the configuration as a template' checkbox is unchecked. Orange boxes and numbers 1 through 7 highlight these sections: 1 (Display), 2 (LEDs), 3 (Campaign), 4 (intervals), 5 (Configuration), 6 (Channel configuration), and 7 (Save the configuration as a template).

From the n°3 window of the set up assistant, it is possible to:

1. Set the display:
  - Tick **"Activated"** box to activate the device display screen.
  - Tick **"Protected"** box to block the display of measured values on the device.
2. Activate the LEDs:
  - Tick **"Alarm"** box to activate the LED during an alarm.
  - Tick **"Operating"** box to activate the LEDs.
3. Specify dataset information:
  - Fill in a dataset name.
  - Add a comment.
4. Set the intervals:
  - Set the recording interval in minute or hour.
  - Set the measurement interval in minute or hour.



**The estimated battery life is automatically updated.**

5. Set the dataset start and stop:
  - Select the required recording mode:
    - ➔ **Instantaneous:** values are recorded at a defined recording interval
    - ➔ **Minimum:** configuration of this mode requires 2 intervals; one measurement interval and one recording interval. The recorded value will be the minimum measured by the data logger according to the defined intervals.  
Example: recording interval = 10 minutes  
Measurement interval = 1 minute

The device performs a measurement every minute but only records the minimum value found over the period of 10 minutes.

1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 min.	9 min.	10 min.
26.5°C	26.5°C	26.4°C	26.5°C	26.5°C	26.6°C	26.7°C	26.7°C	26.5°C	26.6°C

10 measurements: Recording of the minimum measured: **26.4°C**

➔ **Maximum:** same principle as minimum mode but the maximum value is recorded.

➔ **Average:** same principle as minimum and maximum modes but the recorded value is the average of all the measurements during the recording interval defined.

➤ Select the type of start:

➔ **Date:** set a start according to a defined date and time. Set the required date and time.

➔ **Immediate:** the dataset starts at the end of the device configuration.

➔ Button: once the configuration validated, the **"REC"** icon on the device flashes. The device is waiting for the measurements record start. To launch the measurement dataset, carry out a long press on the device **OK** key. The **"REC"** icon becomes fix: dataset started.

➤ Tick **"Stop by button"** box to stop the measurement dataset at any time by carrying out a long press on the device **OK** key.

#### 6. Set the channels:

➤ Click the required channel line to set.

*The line is developed.*

➤ Tick **"Record"** box to record this channel.

➤ Tick **"Display"** box to display the channel on the device.

➤ Name the channel (optional).

➤ Select the probe type if needed.

➤ Select the measurement unit if needed.

➤ Tick **"Activate threshold"** box to activate and define the alarms.

➤ Fill in a high and low threshold.

➤ Set the alarms thresholds time-delay.

#### 7. Save the configuration as model:

➤ Tick **"Save the configuration as model"** box on top of the n°3 window of the assistant set up, then name the configuration to save it and reuse it later.

When all the parameters are set:

➤ Click **"Next"**.

*A confXXXX.xml file is created and saved on the computer in the default download folder.*

*(XXXX replaced by the code displayed on the device screen).*

➤ Go to the default download folder and copy the XML file.

➤ Go to the TrackLog folder, recognized as removable storage by the computer.

➤ Paste the file on the TrackLog root.

➤ Once the XML file copied in the TrackLog, click **"Next"** in the following window.

*The following window is displayed.*

➤ Name the TrackLog.

➤ Select the required area for the device.

- Click **"Finished"**.  
The **"conf OK"** confirmation message is displayed on the device screen.




Once the configuration confirmed, delete the XML file from your download folder: it can not be reusable.

### 10.1.2 With the mobile application in Bluetooth®



A TrackLog is already assigned to a site and/or an area.

- From the devices list press  then **"Configuration"**.  
Your devices list is displayed.
- Select the device to set.  
The following message is displayed.
- Press **"Complete configuration"** button.  
The following page displays:

- Device details: device type, serial number and version number reminder.
  - To download a configuration previously saved: see page 25.
  - Add a designation for the device (optional).
- Set the display:
  - Tick **"Activated"** box to activate the device display screen.
  - Tick **"Protected"** box to block the display of measured values on the device.
- Activate the LEDs:
  - Tick **"Alarm"** box to activate the LED during an alarm.
  - Tick **"Operating"** box to activate the LEDs.
- Specify dataset information:
  - Name the dataset.
  - Add a comment.



5. Set the thresholds:
  - Set the recording interval in minute or hour.
  - Set the measurement interval in minute or hour.



**The estimated battery life is automatically updated.**

6. Set the dataset start and stop:
  - Select the required recording mode:
    - ➔ **Instantaneous:** values are recorded at a defined recording interval
    - ➔ **Minimum:** configuration of this mode requires 2 intervals; one measurement interval and one recording interval. The recorded value will be the minimum measured by the data logger according to the defined intervals.  
Example: recording interval = 10 minutes  
Measurement interval = 1 minute  
The device performs a measurement every minute but only records the minimum value found over the period of 10 minutes.

1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 min.	9 min.	10 min.
26.5°C	26.5°C	26.4°C	26.5°C	26.5°C	26.6°C	26.7°C	26.7°C	26.5°C	26.6°C

10 measurements: Recording of the minimum measured: **26.4°C**

- ➔ **Maximum:** same principle as minimum mode but the maximum value is recorded.
  - ➔ **Average:** same principle as minimum and maximum modes but the recorded value is the average of all the measurements during the recording interval defined.
- Select the type of start:
    - ➔ **Date:** set a start according to a defined date and time. Set the required date and time.
    - ➔ **Immediate:** the dataset starts at the end of the TrackLog configuration.
    - ➔ **Button:** once the configuration validated, the **"REC"** icon on the device flashes. The device is waiting for the measurements record start. To launch the measurement dataset, carry out a long press on the device **OK** key. The **"REC"** icon becomes fix: dataset started.
  - Tick **"Stop by button"** box to stop the measurement dataset at any time by carrying out a long press on the device **OK** key.
  - Tick **"Stop the dataset"** box to stop the recording dataset.
7. Set the channels:
    - Click the required channel line to set.  
*The line is developed.*
    - Tick **"Record"** box to record this channel.
    - Tick **"Display"** box to display the channel on the device.
    - Name the channel (optional).
    - Select the probe type if needed.
    - Select the measurement unit if needed.
    - Tick **"Activate threshold"** box to activate and define the alarms.
    - Fill in a high and low threshold.
    - Set the alarms thresholds time-delay.
  8. Save the configuration as model:
    - Tick **"Save"**.
    - Name the configuration to save it.
    - To reuse it later, press **"Download a configuration"** on top of the configuration menu.


- Select the required configuration and validate.

When all parameters are set:

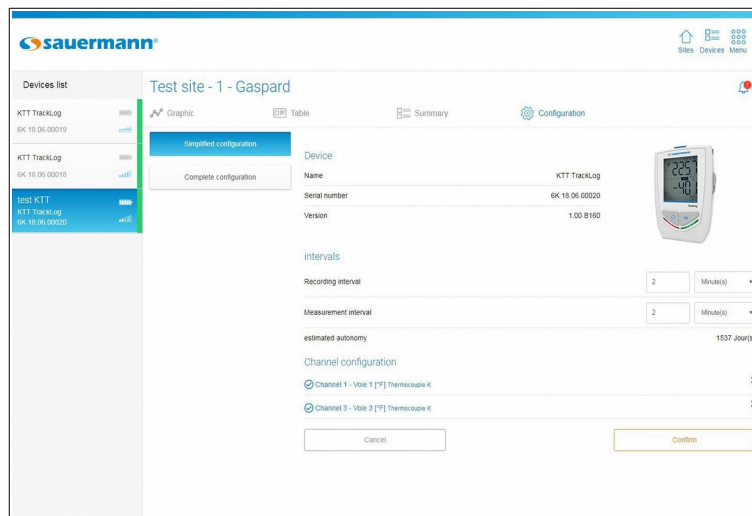
- Press **"OK"**.

## 10.2 Simplified configuration

### 10.2.1 With the web application with the LoRa® network

 **A TrackLog must already be assigned to a site and/or an area and a complete configuration already carried out.**

- Click the device to set from the devices list available in an area.
  - Click **"Configuration"**.
- The following page displays.*




The screenshot shows the 'Configuration' page for a device named 'KTT TrackLog'. The page has a sidebar with 'Devices list' and 'Test site - 1 - Gaspard'. The main content area has tabs for 'Graphic', 'Table', 'Summary', and 'Configuration'. Under 'Configuration', there are two options: 'Simplified configuration' (selected) and 'Complete configuration'. The 'Simplified configuration' section shows fields for 'Name' (KTT TrackLog), 'Serial number' (6K 18 06 00020), and 'Version' (1.00 B160). There are also fields for 'Recording interval' (2 minutes) and 'Measurement interval' (2 minutes). The 'estimated autonomy' is 1537 hours. Under 'Channel configuration', there are two channels: 'Channel 1 - Voie 1 [°F] Thermocouple K' and 'Channel 2 - Voie 2 [°F] Thermocouple K'. At the bottom, there are 'Cancel' and 'Confirm' buttons.

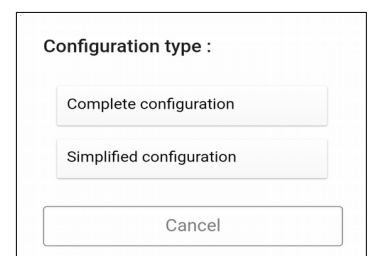
- Carry out the required modifications.
  - Click **"Validate"**.
- The following window opens.*  
*Modifications are sent to the TrackLog via the LoRa® network.*

 **The simplified configuration carried out via LoRa® network will be taken into account after the next communication from the device to the Cloud.**

### 10.2.2 With the mobile application with Bluetooth®

 **A TrackLog is already assigned to a site and/or an area.**

- From the devices list, press  then **"Configuration"**.
- The devices list displays.*
- Select the device to set.
- The following message displays.*
- Press **"Simplified configuration"**.
- The following window displays.*



The screenshot shows a dialog box titled 'Configuration type :'. It has two buttons: 'Complete configuration' and 'Simplified configuration'. At the bottom, there is a 'Cancel' button.



1. Device details: device type, serial number and version number reminder.

2. Set the thresholds:

- Set the recording interval in minute or hour.
- Set the measurement interval in minute or hour.



**The estimated battery life is automatically updated.**

3. Set the channels:

- Click the required channel line to set.  
*The line is developed.*
- Tick **"Activate threshold"** box to activate and define the alarms.
- Fill in a high and low threshold.
- Press **"OK"**.

When all the parameters are set:

- Press **"OK"**.


×

Configuration

1

Device

Device	KT TrackLog
Serial nu...	6K 18.09.00050
Version	1.00 B205



2

intervals

Recording interval	1	Minute(s) ▾
Measurement interval	1	Minute(s) ▾
estimated autonomy	1440 day(s)	

3

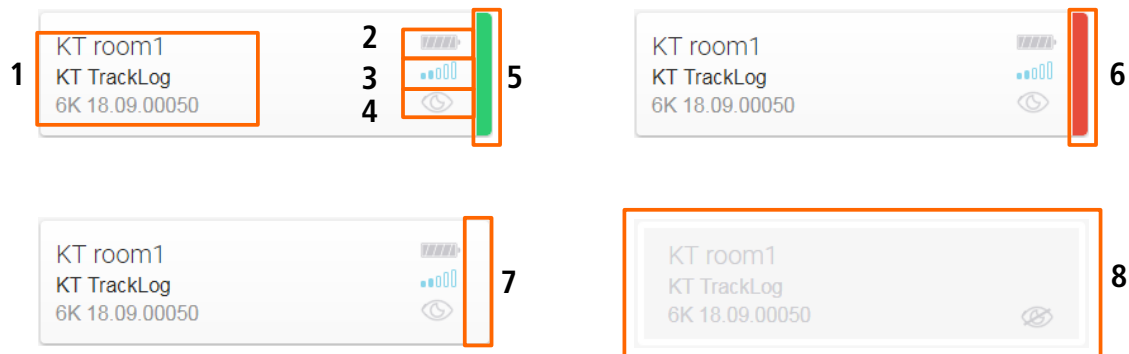
Channel configuration

Channel int1 - Voie 1 - [°C]

Cancel


OK

## 11.1 Web application



1. Device name and serial number
2. Battery state
3. Radio-frequency signal power
4. Activate or deactivate the device: allows to activate or deactivate the measurements and alarms send to the Cloud.

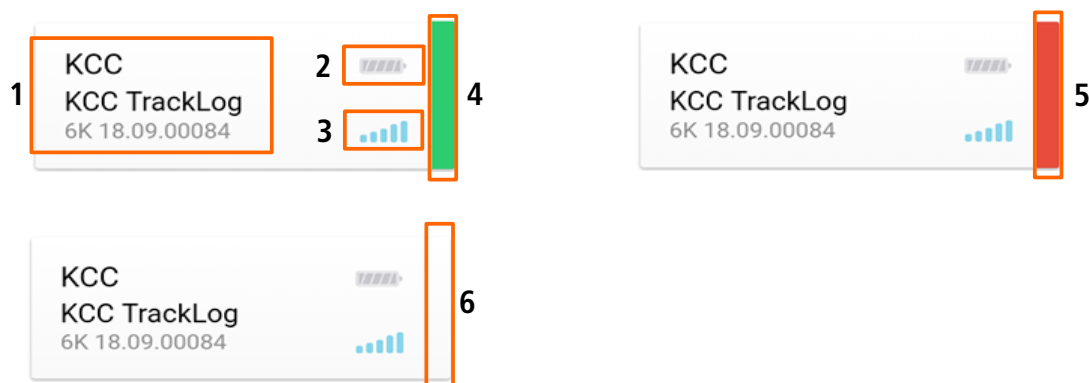
**This function is available only on the WEB version of the application. It must be activated via the users profiles management. For more details, please see page 18.**

- To deactivate a device, click   
*The deactivated device becomes grey (8), it is no more visible by the other users. The measurements data are no more sent to the Cloud. Data history keeps available.*

5. Green: no alarm
6. Red: at least one current alarm
7. No colour: no alarm thresholds set
8. Deactivated device example

## 11.2 Mobile application



The device state is indicated thanks to the following colours:



1. Device name and serial number
2. Battery state
3. Radio-frequency signal power
4. Green: no alarm
5. Red: at least one current alarm
6. No colour: no alarm threshold set

## 12. MOBILE APPLICATION SETTINGS

To access the mobile application settings:

- Go to  menu then  **"Settings"**.

*The following screen displays.*

### 12.1 Automatic connection

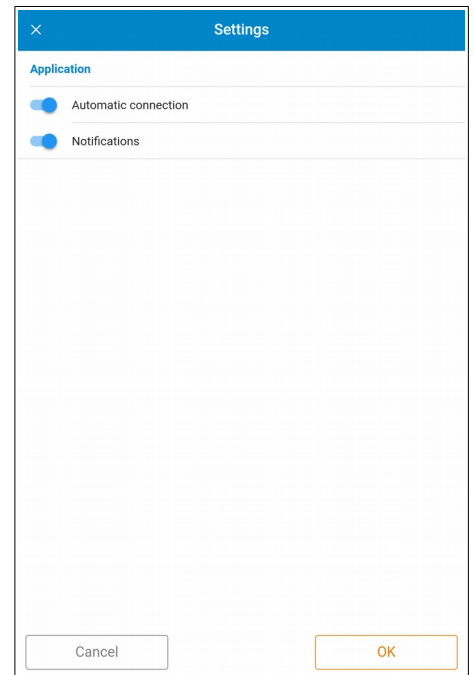
Activate this function to directly display the sites list when launching the application, without asking identification or password.

- Activate or deactivate the automatic connection to the mobile application.
- Press **"OK"**.

### 12.2 Notifications

This function allows to display in real-time the notifications when the mobile application is closed. For example, a notification is sent when a device is in alarm state.

- Activate or deactivate notifications.
- Press **"Validate"**.  
*A confirmation message displays.*
- Press **"OK"**.



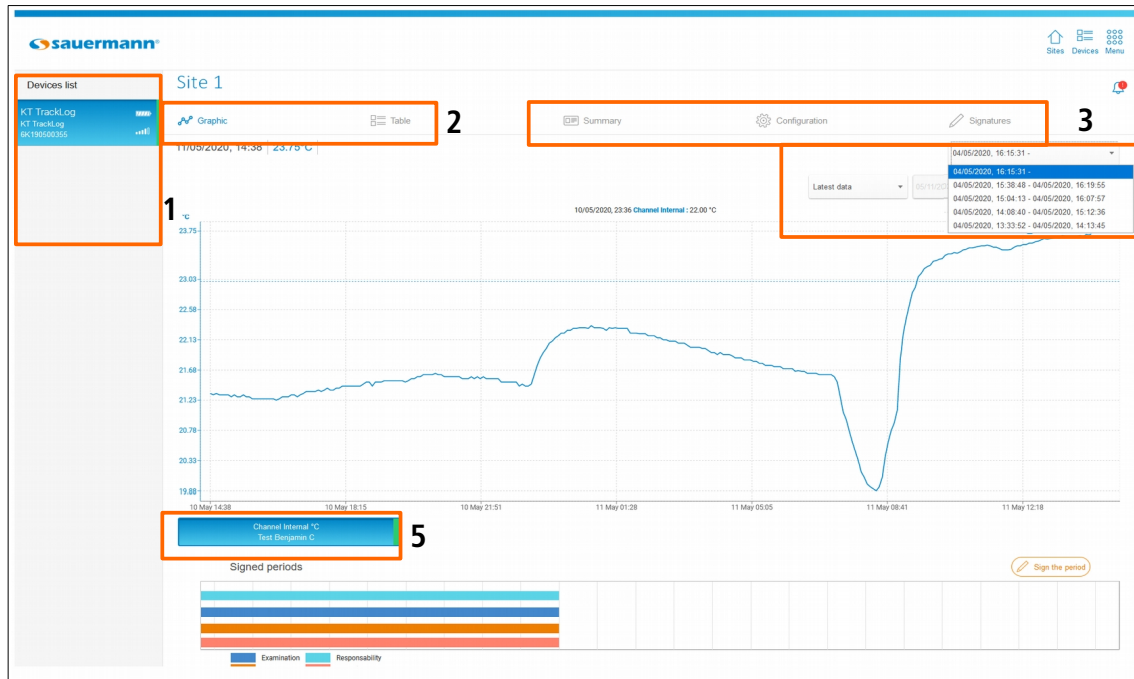
## 13. DATA MANAGEMENT

### 13.1 Visualise data

To visualise data measured by a device:

- From the homepage screen displaying the list of your sites, click the required site.
- Click the required device.

The following screen displays:



Web application

1. On the web application are displayed on the left the devices list for the area. Select a device to display details.
2. Select the required display to visualise data:

- Graph
- Table: data or statistics

3. Access the summary:

- Device information and configuration details
- Channels details

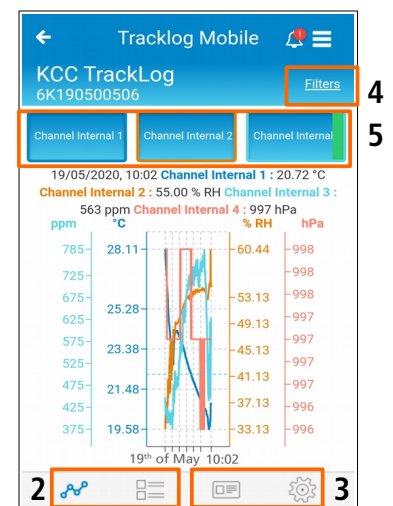
Select a configuration dataset.

4. Select a date:

- Last data
- Today
- Since yesterday
- 7 last days
- 30 last days

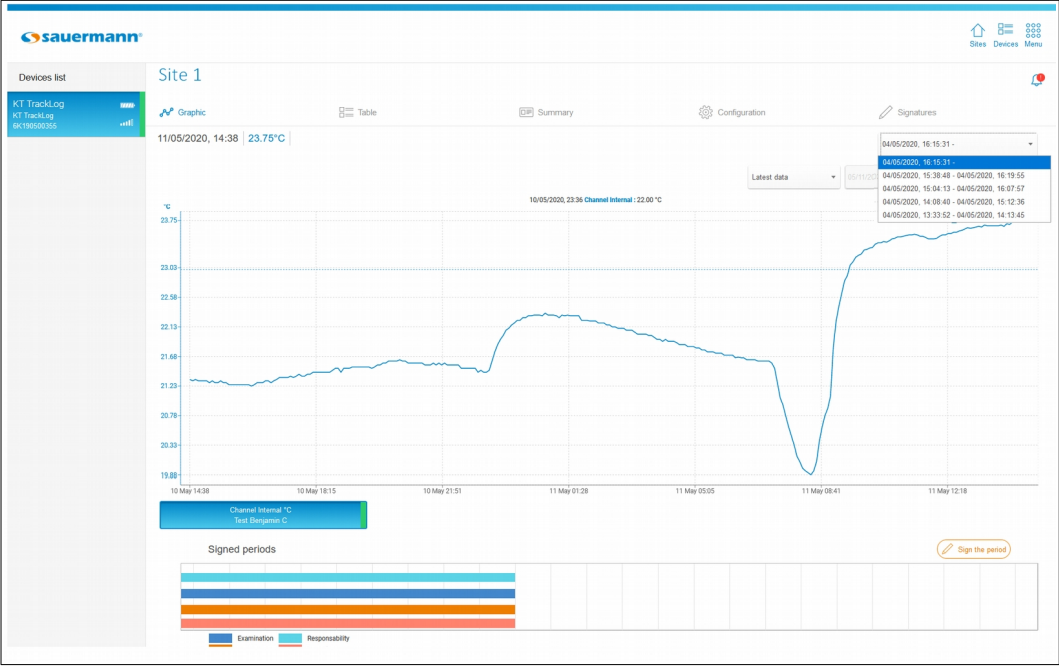
Between two dates: fill in the starting date then the ending date with the calendar or the keypad (on the mobile application, time between the two dates must be limited to 7 days).

5. Select the channels to display on the graph.



Mobile application

Web application:



“Graph” view

The 'Data table' view displays a table of temperature data. The table has columns for 'Values', 'Date', and 'Channel Internal [°C] Test Benjamin C'. A dropdown menu on the right shows a list of time intervals.

Values	Date	Channel Internal [°C] Test Benjamin C
	11/05/2020, 14:38	23.75
	11/05/2020, 14:57	23.75
	11/05/2020, 14:56	23.73
	11/05/2020, 14:55	23.78
	11/05/2020, 14:54	23.75
	11/05/2020, 14:53	23.75
	11/05/2020, 14:52	23.73
	11/05/2020, 14:51	23.73
	11/05/2020, 14:50	23.79
	11/05/2020, 14:49	23.75
	11/05/2020, 14:48	23.75
	11/05/2020, 14:47	23.75
	11/05/2020, 14:46	23.73
	11/05/2020, 14:45	23.73
	11/05/2020, 14:44	23.73

“Data table” view

The 'Statistics table' view displays a table of statistical data. The table has columns for 'Statistics' and 'Channel Internal [°C] Test Benjamin C'. A dropdown menu on the right shows a list of time intervals.

Statistics	Channel Internal [°C] Test Benjamin C
Minimum	19.88
Maximum	23.79
Average	22.088
Standard deviation	0.919
MKT	22.134

“Statistics table” view

[Sites](#)
[Devices](#)
[Menu](#)

Devices list

KTT TrackLog	6K 18.06.00019	
KTT TrackLog	6K 18.06.00018	
test KTT	KTT TrackLog	6K 18.06.00020

Test site - 1 - Gaspard

[Graphic](#)
[Table](#)
[Summary](#)
[Configuration](#)

Device

Channels

Device

Designation

Serial number

Version

Registration type

Recording interval

Measurement interval

KTT TrackLog

test KTT

6K 18.06.00020

1.00 B160

Instant

2 min.

2 min.

“Device summary” view

[Sites](#)
[Devices](#)
[Menu](#)

Devices list

KTT TrackLog	6K 18.06.00019	
KTT TrackLog	6K 18.06.00018	
test KTT	KTT TrackLog	6K 18.06.00020

Test site - 1 - Gaspard

[Graphic](#)
[Table](#)
[Summary](#)
[Configuration](#)

Device

Channels

Channel 1 - Voie 1 [°F]

Probe type

Alarm state

High threshold

Low threshold

Channel 3 - Voie 3 [°F]

Probe type

Alarm state

Thermocouple K

Normal

82.4 °F

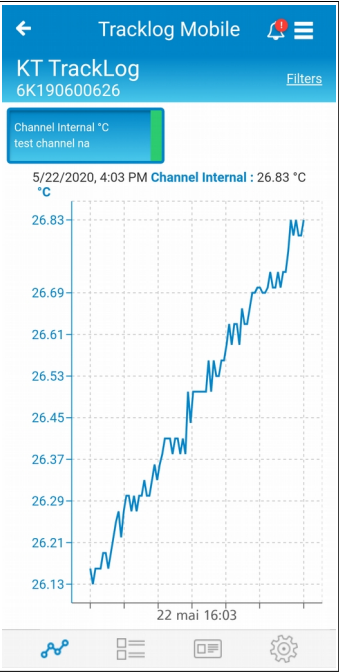
67.5 °F

Thermocouple K

No configured alarms

“Channels summary” view

Mobile application:



“Graph” view

The 'Data table' view shows a list of temperature readings. The table has two columns: 'Date' and 'Channel Int...'. The data is as follows:

Date	Channel Int...
5/22/2020, 4:04 PM	26.83
5/22/2020, 4:03 PM	26.83
5/22/2020, 4:02 PM	26.80
5/22/2020, 4:01 PM	26.80
5/22/2020, 4:00 PM	26.83
5/22/2020, 3:59 PM	26.80
5/22/2020, 3:58 PM	26.83
5/22/2020, 3:57 PM	26.77
5/22/2020, 3:56 PM	26.73
5/22/2020, 3:55 PM	26.73
5/22/2020, 3:54 PM	26.70
5/22/2020, 3:53 PM	26.73
5/22/2020, 3:52 PM	26.70

“Data table” view

The 'Statistics table' view shows summary statistics for the temperature data. The table has two columns: 'Statistics' and 'Channel Inter...'. The data is as follows:

Statistics	Channel Inter...
Minimum	26.13
Maximum	26.83
Average	26.486
Standard deviation	0.205
MKT	26.488

“Statistics table” view

The 'Device summary' view shows details about the device. The table has two columns: 'Device' and 'Channels'. The data is as follows:

Device	Channels
KT TrackLog	
Designation	KT TrackLog
Serial number	6K190600626
Version	1.03 B395
Registration type	Instant
Recording interval	1 min.
Measurement interval	1 min.
Comment	5678

“Device summary” view

The 'Channels summary' view shows details about the channels. The table has two columns: 'Probe type' and 'Internal temperature'. The data is as follows:

Probe type	Internal temperature
Alarm state	Active
High threshold	27.00 °C
Low threshold	22.00 °C


“Channels summary” view

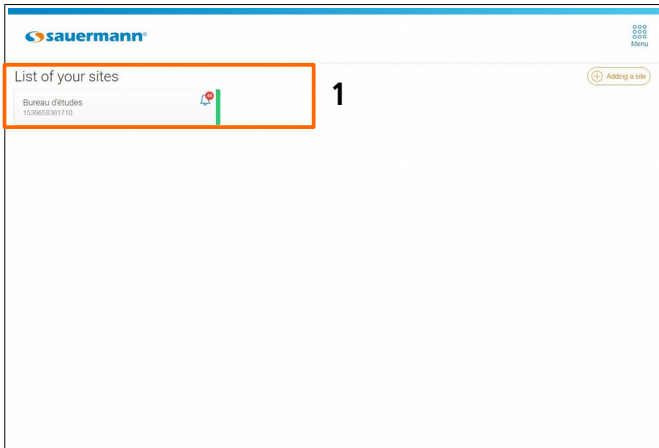


## 13.2 Alarms management

A colour mark and an icon report the devices in state of alarm:

1. Green: no alarm
2. Red and alarm icon: alarms not acknowledged
3. No colour: no alarm thresholds set

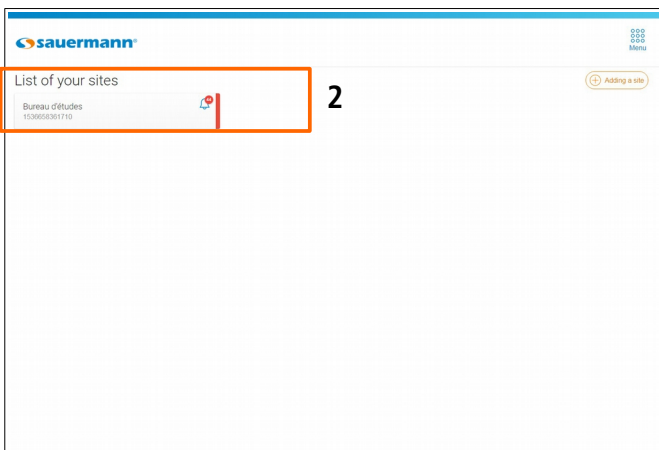
The colour mark and the icon appear on the concerned site from the homepage, and on the concerned device. On the web application, the number close to the alarm icon indicates the number of unacknowledged alarms. 



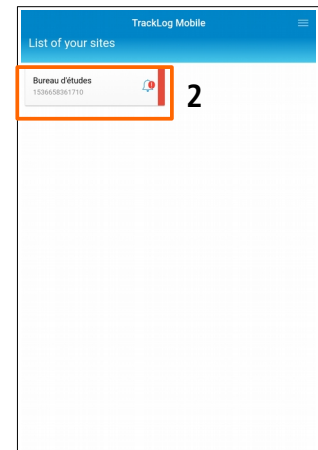
Web application



Mobile application



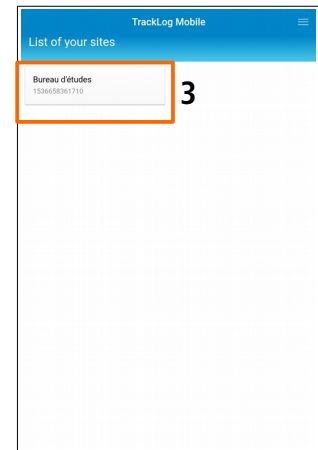
Web application



Mobile application




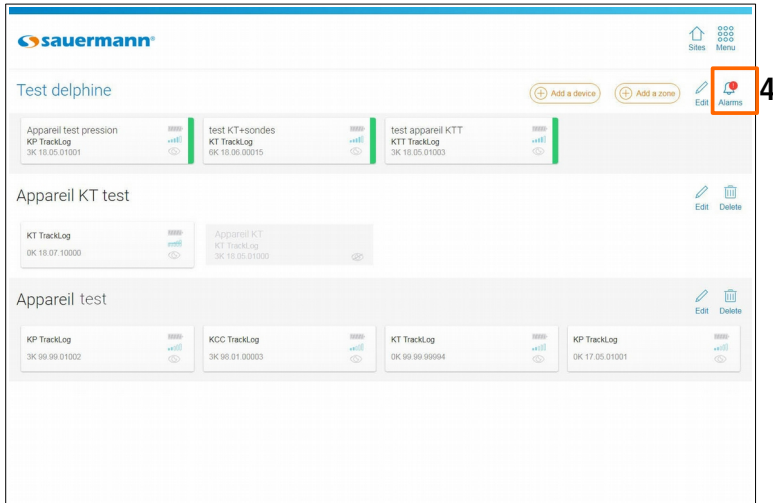
Web application



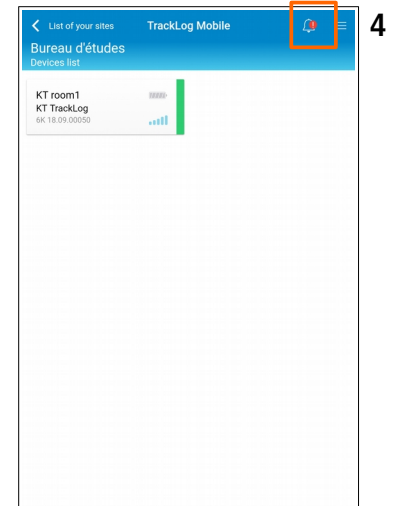
Mobile application



- Select the required site.  
*The areas list displays.*
- Click  (4) to display the alarms details.

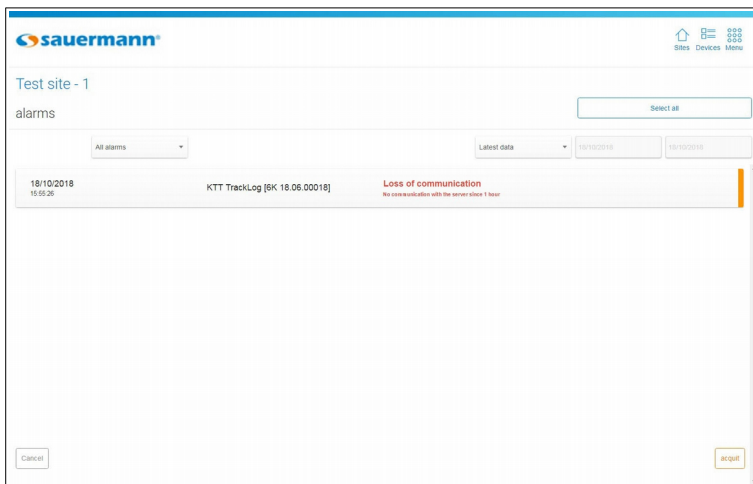


**Web application**

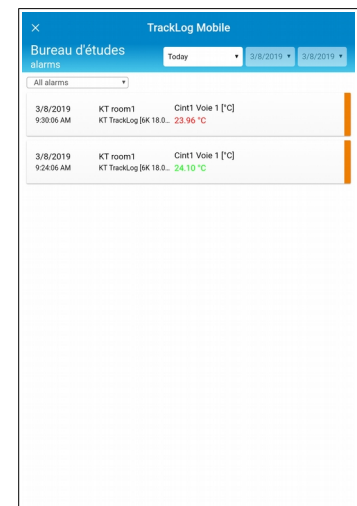


**Mobile application**

*The following page displays:*



**Web application**



**Mobile application**

- It is possible to display:
  - All the alarms
  - The acknowledged alarms
  - The unacknowledged alarms

The application displays by default the last data: the latest data are displayed to the head of the list.

- It is possible to select a date:
  - Today
  - Since yesterday
  - 7 last days
  - 30 last days
  - Between two dates: fill in the starting date then the ending date with the calendar or the keypad (on the mobile application, time between the two dates must be limited to 7 days).

The unacknowledged alarms are marked in orange:

18/10/2018 15:55:26	KTT TrackLog [6K 18.06.00018]	<b>Loss of communication</b> No communication with the server since 1 hour	
18/10/2018 15:55:26	KTT TrackLog [6K 18.06.00018]	<b>Loss of communication</b> No communication with the server since 1 hour	test com

Unacknowledged alarms

Acknowledged alarms





To acknowledge an alarm:

- Click the line of the alarm to acknowledge.
- Click **"Acknowledge"**.

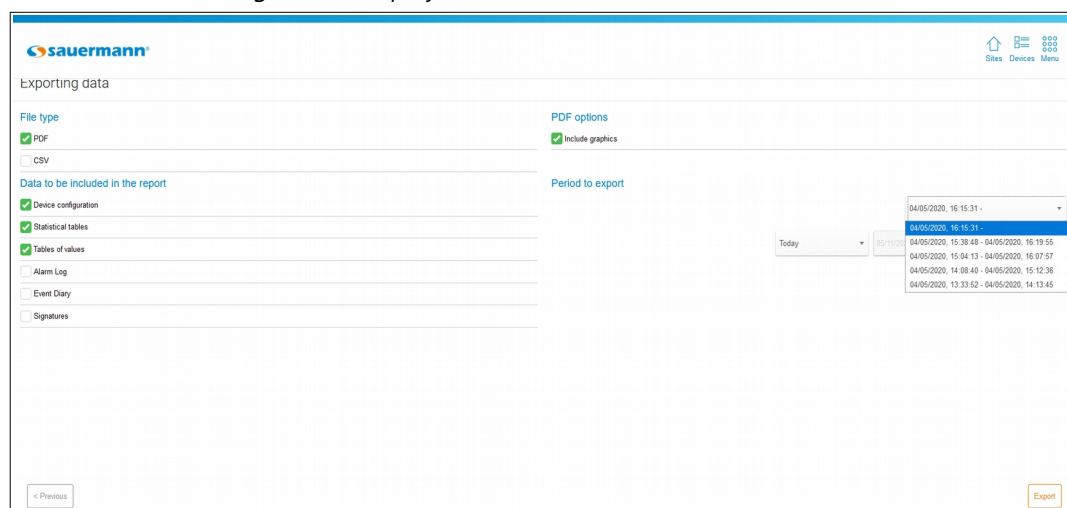
## 13.3 Export data

It is possible to export the measured data in CSV format (table), or the whole dataset report in PDF format. This function will allow you to integrate easily tables and measurement reports to your documents which summarises information about performed measurements.

To export data:

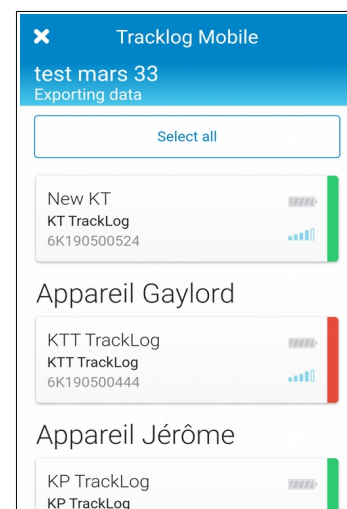
- Web application: go to the menu clicking  then  **"Export"**.
- Mobile application: go to  then  **"Export"**.

The following screen displays.



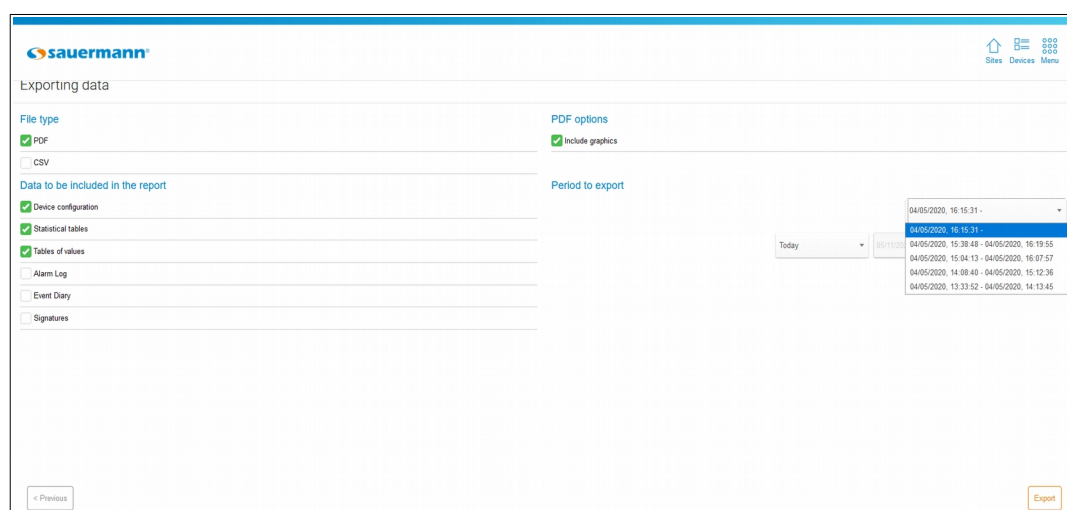
The screenshot shows the 'Exporting data' screen in the web application. It features a 'File type' section with 'PDF' selected and 'CSV' unselected. Under 'Data to be included in the report', 'Device configuration', 'Statistical tables', and 'Tables of values' are checked, while 'Alarm Log', 'Event Diary', and 'Signatures' are unchecked. The 'PDF options' section has 'Include graphics' checked. The 'Period to export' section shows a date range from '04/05/2020, 16:15:31' to '04/05/2020, 15:39:49'. There are 'Previous' and 'Export' buttons at the bottom.

Web application – Export screen for one instrument



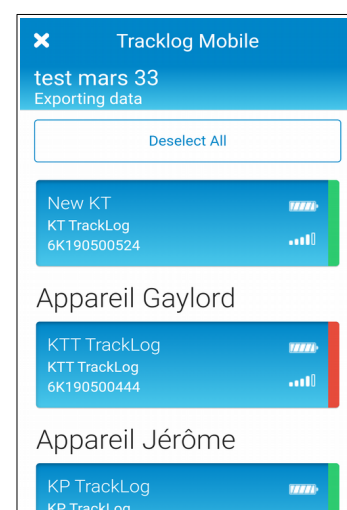
The screenshot shows the 'Tracklog Mobile' app interface for 'test mars 33'. It has a 'Select all' button and a list of instruments: 'New KT KT TrackLog 6K190500524', 'Appareil Gaylord KTT TrackLog 6K190500444', 'Appareil Jérôme KP TrackLog 6K190500444', and 'KP TrackLog 6K190500444'. Each instrument entry has a progress bar.

Mobile application



This screenshot is identical to the one above, showing the 'Exporting data' screen in the web application with the same settings and date range.

Web application – Export screen for several instruments



The screenshot shows the 'Tracklog Mobile' app interface for 'test mars 33' with a 'Deselect All' button. The list of instruments is the same as in the previous mobile app screenshot.

Mobile application

- In **"Type of file"**, select the CSV format (table) or PDF.
- In **"Data to integrate to the report"**, select the elements to integrate to the document:
  - Devices configuration
  - Statistics table
  - Values table
  - Alarms diary
  - Events diary
- If the PDF format is selected, in **"PDF Options"** it is possible to include graphs.
- If only one device has been selected, it is mandatory to select the configuration dataset according to the period you want to export. Once the right configuration dataset is selected, proceed to the following step.
- If several devices have been selected, it is only possible to download the data recorded with the latest configuration set up in the devices.
- In **"Period to export"**, select the dates and data to export:
  - Today
  - Since yesterday
  - 7 last days
  - 30 last days (web application)
  - Between two dates: fill in the starting date then the ending date with the calendar or the keypad (on the mobile application, time between the two dates must be limited to 7 days).
- Click **"Following"** (web application) or **"OK"** (mobile application).
- Select the Data Logger from which the data must be downloaded.
- Click **"Export"**.
- Via the web application: the dataset report is saved automatically in the **"Downloads"** folder of your computer.
- Via the mobile application:  
*The following confirmation message displays.*
- Press **"OK"** to share and validate the measurements report.


#### Share the report

Do you want to share the report?

Annuler

OK

Example of PDF report:



Test site - 1  
1526249072129

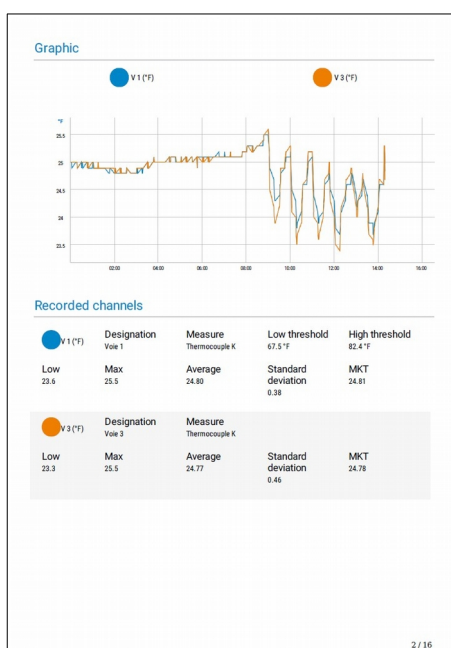
Device

Designation test KTT	Device number 323831397736880d	Soft version 1.00 B160
Device type KTT TrackLog	Serial number 6K 18.06.00020	

Configuration

Type of measure moment	Recording interval 2 minutes	Number of points 335
Departure date 18/10/2018 00:01	End date 18/10/2018 16:35	
Comment -		

1 / 15







**statements**

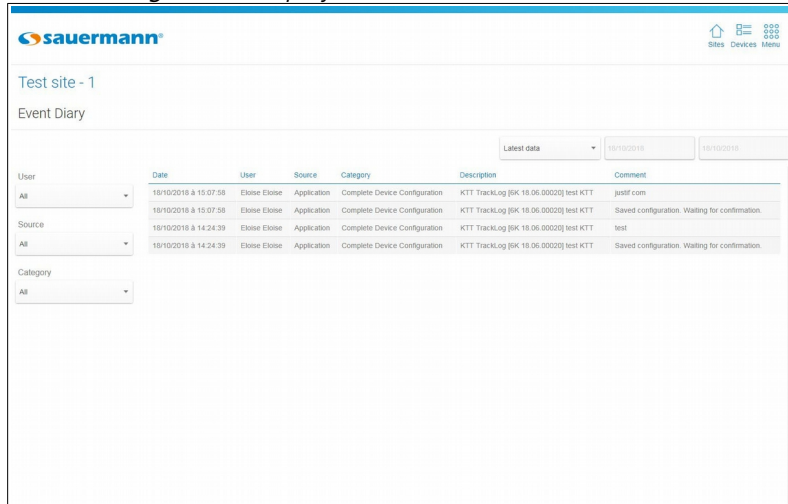
		V1 (°F)	V3 (°F)
<b>Statistics</b>			
Low	23.6	23.3	
Max	25.5	25.5	
Average	24.80	24.77	
Standard deviation	0.38	0.46	
MKT	24.81	24.78	
<b>Index</b>	<b>Date</b>	<b>V1 (°F)</b>	<b>V3 (°F)</b>
1	18/10/2018 00:01	25.0	25.0
2	18/10/2018 00:02	25.0	25.0
3	18/10/2018 00:03	25.0	25.0
4	18/10/2018 00:04	25.0	25.0
5	18/10/2018 00:05	24.8	25.0
6	18/10/2018 00:16	25.0	25.0
7	18/10/2018 00:17	25.0	25.0
8	18/10/2018 00:18	25.0	25.0
9	18/10/2018 00:19	25.0	25.0
10	18/10/2018 00:20	24.8	24.8
11	18/10/2018 00:31	25.0	25.0
12	18/10/2018 00:32	24.8	25.0
13	18/10/2018 00:33	25.0	25.0
14	18/10/2018 00:34	25.0	25.0
15	18/10/2018 00:35	24.8	25.0

## 14. EVENTS DIARY

To access the events diary, select a site by clicking on it. From the devices list:

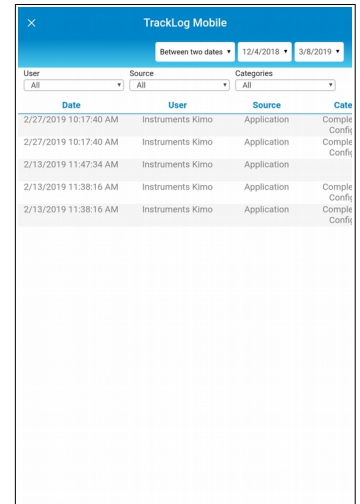
- Web application: go to the menu clicking  then  "Events diary".
- Mobile application: go to the menu  then  "Events diary".

The following screen displays:



Date	User	Source	Category	Description	Comment
18/10/2018 à 15:07:58	Eloise Eloise	Application	Complete Device Configuration	KTT TrackLog [JK 18.06.00020] test KTT	just com
18/10/2018 à 15:07:58	Eloise Eloise	Application	Complete Device Configuration	KTT TrackLog [JK 18.06.00020] test KTT	Saved configuration. Waiting for confirmation.
18/10/2018 à 14:24:39	Eloise Eloise	Application	Complete Device Configuration	KTT TrackLog [JK 18.06.00020] test KTT	test
18/10/2018 à 14:24:39	Eloise Eloise	Application	Complete Device Configuration	KTT TrackLog [JK 18.06.00020] test KTT	Saved configuration. Waiting for confirmation.

Web application



Date	User	Source	Category
2/27/2019 10:17:40 AM	Instruments Kimo	Application	Comple Conf
2/27/2019 10:17:40 AM	Instruments Kimo	Application	Comple Conf
2/13/2019 11:47:34 AM	Instruments Kimo	Application	Comple Conf
2/13/2019 11:38:16 AM	Instruments Kimo	Application	Comple Conf
2/13/2019 11:38:16 AM	Instruments Kimo	Application	Comple Conf

Mobile application

The events table indicates the actions list carried out on the application with the date and time, the user, the category, the description and eventually a comment.

It is possible to display events:

- **By date:** select:
  - Last data (the latest data are displayed to the head of the list)
  - Today
  - Since yesterday
  - 7 last days
  - 30 last days
  - Between 2 dates: fill in the starting date then the ending date with the calendar or the keypad (on the mobile application, time between the two dates must be limited to 7 days).
- **By user:** select the user in the scrolling list. Users correspond to the application user.
- **By source:** select the source in the scrolling list.
- **By category:** select the event category in the scrolling list.

## 15. ADMINISTRATION DIARY



The administration diary allows to consult accounts log in and log out, specifies which user name was connected and sites creation or deletion in this account.

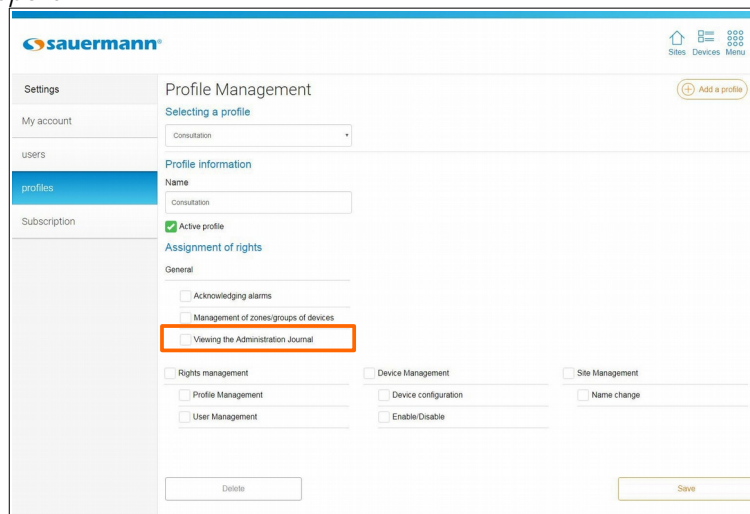


The administration diary access is available via the WEB application.

### 15.1 Allow the administration diary access

To consult the administration diary, an access must be given to the user. From the sites list:

- Click **"Menu"**  then  **"Settings"**.
- Click **"Profiles"**.
- In the scrolling menu, select the required user profile.  
*The following page opens.*



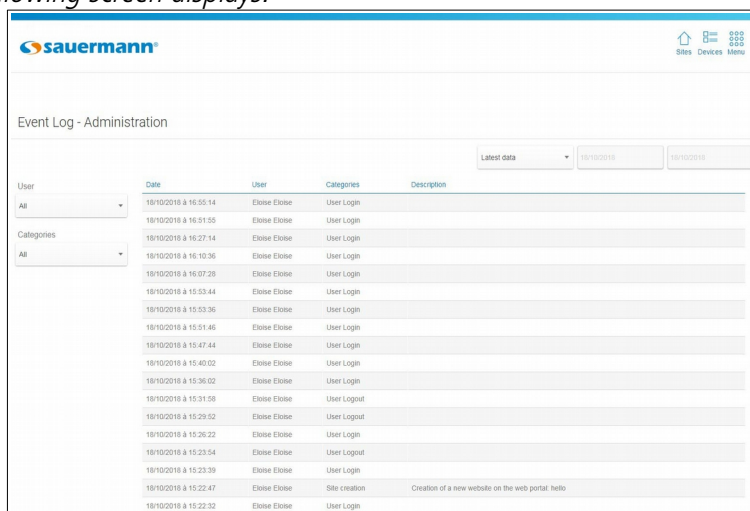
The screenshot shows the 'Profile Management' page. Under 'Assignment of rights', the 'General' section is expanded. The checkbox 'Viewing the Administration Journal' is highlighted with a red box. Other checkboxes include 'Acknowledging alarms', 'Management of zones/groups of devices', 'Rights management', 'Device Management', 'Site Management', 'Profile Management', 'Device configuration', 'Name change', and 'User Management'.

- In **"Assignment of rights"**, **"General"** part, tick the **"Administration diary consultation"** box.
- Click **"Save"**.

### 15.2 Consult the administration diary

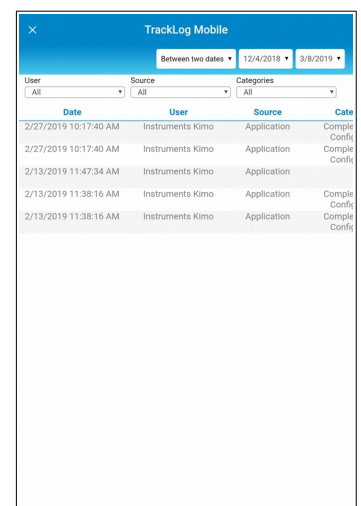
To access the administration diary, from the **"List of sites"** page:

- Go to the menu clicking  then click  **"Administration"**.  
*The following screen displays:*



The screenshot shows the 'Event Log - Administration' page. It features a table with the following columns: User, Date, User, Categories, and Description. The table lists various user login and logout events. The 'User' column has a dropdown menu set to 'All'. The 'Categories' column has a dropdown menu set to 'All'. The 'Date' column has a date range selector set to 'Latest data'.

Web application



The screenshot shows the 'TrackLog Mobile' application. It displays a table with the following columns: Date, User, Source, and Cate. The table lists various user login and logout events. The 'User' column has a dropdown menu set to 'All'. The 'Categories' column has a dropdown menu set to 'All'. The 'Date' column has a date range selector set to 'Between two dates'.

Mobile application

It is possible to display events:

- **By user:** display events concerning all the users or select a user.
- **By category:** select the events category in the scrolling list:
  - All categories
  - User connection
  - Site creation
  - User disconnection
  - Site deletion
- **By date:** select:
  - Last data (the latest data are displayed to the head of the list)
  - Today
  - Since yesterday
  - 7 last days
  - 30 last days
  - Between 2 dates: fill in the starting date then the ending date with the calendar or the keypad (on the mobile application, time between the two dates must be limited to 7 days).

## 16. DEVICE UPDATE

To carry out the device update:

- Plug the device in USB on the computer:
  1. Plug the male USB connector of the cable to an USB connection on your computer\*.
  2. Open the USB cap on the right side of the Data Logger.
  3. Connect the male micro-USB connector of the cable to the female micro-USB connector of the device.



*The device is displayed on the computer as a removable storage.*

- Copy the update file supplied by Sauermann.
- Paste the update file on the device, on the storage root.

*Please wait 10 to 15 seconds without unplugging the device until the percentage is displayed.*



**The device can be unplugged once the update starts.**



**Please wait until the end of the update (100% is displayed) before using again the device.**

\* The computer must be in compliance with the IEC60950 standard.

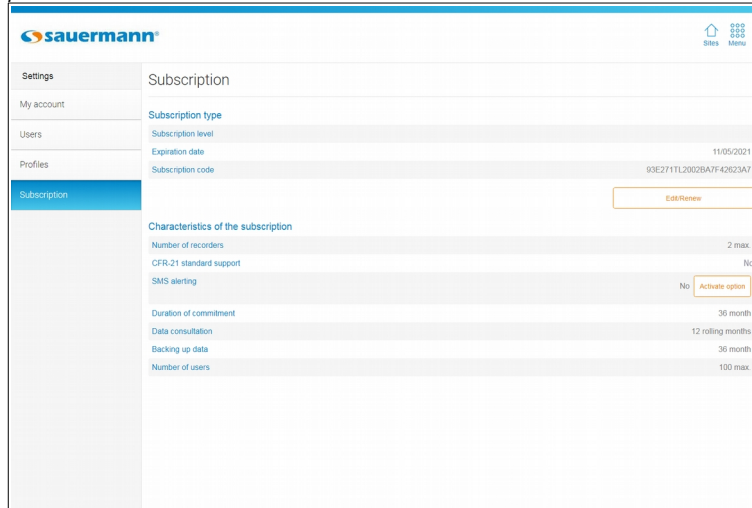


## 17. MANAGE SUBSCRIPTIONS

It is possible to recover information about Cloud subscription offer from the **"Settings"** page.

- Click **"Menu"**  then  **"Settings"**.
- Click **"Subscription"**.

*The following page opens:*



This page indicates the following elements about the subscription offer:

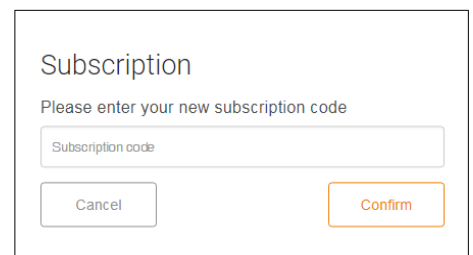
- The subscription level
- The expiration date of the subscription offer
- The subscription date

It also indicates the following elements about the subscription details:

- The maximum number of Data Loggers that can be connected
- The remaining number of SMS for SMS alerts
- The time commitment
- The data consultation time
- The data saving time
- The maximum number of users

### 17.1 Modify or renew your subscription

- Contact Sauermann to obtain a new code.
- Click **"Modify/Renew"**.  
*The following window opens.*
- Fill in the code supplied by Sauermann.
- Click **"Validate"**.



### 17.2 Order a pack of SMS

- Click **"Order"**.  
*The following window opens, indicating the way to contact an operator and order a pack of SMS.*

