

SenBox

Manual

Version: July 2019

www.sendot.nl

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1. Installation

You have chosen for one of the following SenBox models:

- A SenBox that is connected to the local network via an Ethernet cable and that is powered with an adapter.
- A SenBox that is connected to the local network via an Ethernet cable and that is powered via an Ethernet cable (Power Over Ethernet, POE)
- A SenBox with a 4G modem that is powered with two adapters.

1.1 Items

When you start using a SenBox, you need following items:

- SenBox
- Adaptors (when needed)
- Sendot sensors (max 6)
- Connection cables

1.2 Steps

You must follow the next steps to install the SenBox:

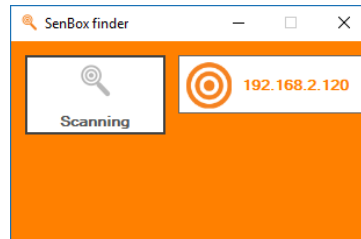
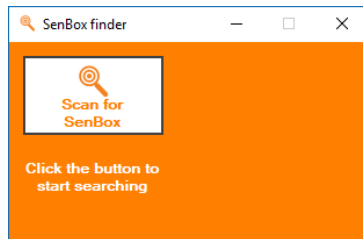
- Place or attach the SenBox nearby the measuring location
- Put the sensors in the desired position and connect the cables to the sensors
- Connect the adapters from the SenBox to a power station or, if the sensor is Power over Internet connect it to a suitable router or switch

Following steps apply for a SenBox with 4G modem:

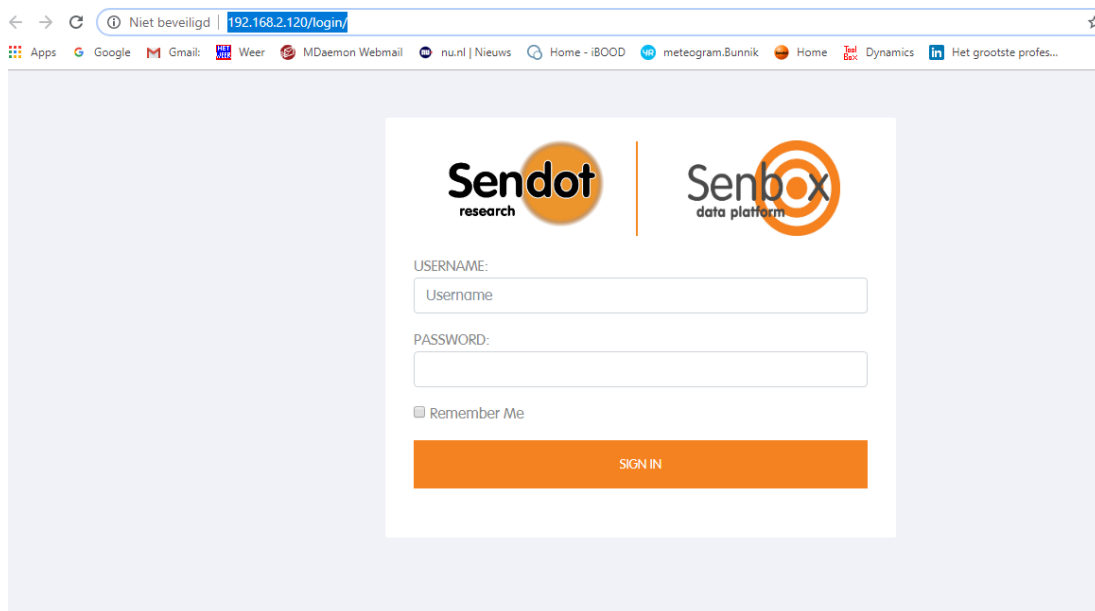
- SenBox starts up and connects to the internet within 10 minutes.
- On the SenBox a domain is listed (www.senbox--.nl). Use this address to view your data. We recommend to use Google Chrome as internet browser.
- You can log in. (see chapter 2)

Following steps apply for a Senbox connected to a local network:

- Download the SenBoxScanner program (for Windows or Android) from the website www.sendot.nl. This program searches for the IP address of the SenBox.
- Install the SenBoxScanner on your PC.
- Start SenBoxScanner to start searching the Senbox.



- Click on the IP address (in the example 192.168.2.120) to open the login screen in your web browser.



2. Login



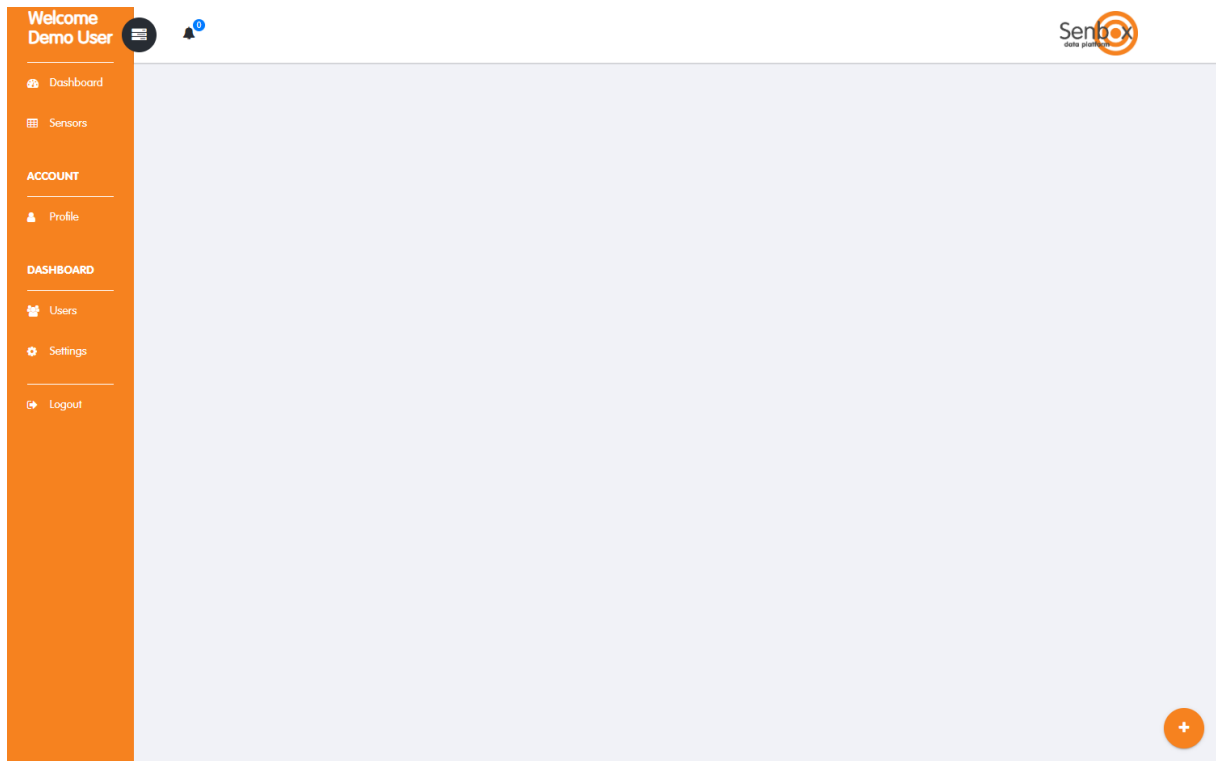
The screenshot shows a login interface with the following elements:

- Logos for **Sendot research** and **Senbox data platform** at the top.
- A label **USERNAME:** above a text input field containing the placeholder text "Username".
- A label **PASSWORD:** above an empty password input field.
- A checkbox labeled **Remember Me**.
- An orange **SIGN IN** button at the bottom.

If the system is used for the first time, you can log in with following username [user] and password [s3nb0x!]. The person doing this has admin rights and the ability to create other users.

When you open the Senbox web page, a login screen is displayed. Here you can log in with your received username and password from your administrator.

3. Dashboard



After a successful login, the overview page or dashboard will be visible. On the left side of the screen you will find the navigation menu. From here you can navigate to other sections, such as creating graphs and managing your profile. In the large gray area your own created graphs will be displayed. When you first log in, no graphs are created yet. In the screen below a demo chart is shown.



Dashboard

Sensors

ACCOUNT

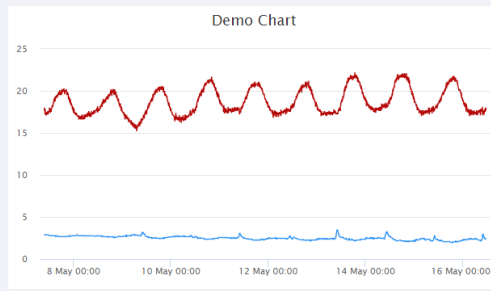
Profile

DASHBOARD

Users

Settings

Logout



4. Creating a chart or graph

To create a graph/chart, click on the [+] symbol on the bottom right corner of the dashboard. The screen shown below will pop up.

Create Chart ✕

Chartname:
Enter Chart Title

Show old data from sensor(s):
No

Sensors:
Nothing selected

Share Chart

Public graph

Private graph

(Can select users to share with manually)

Create Chart

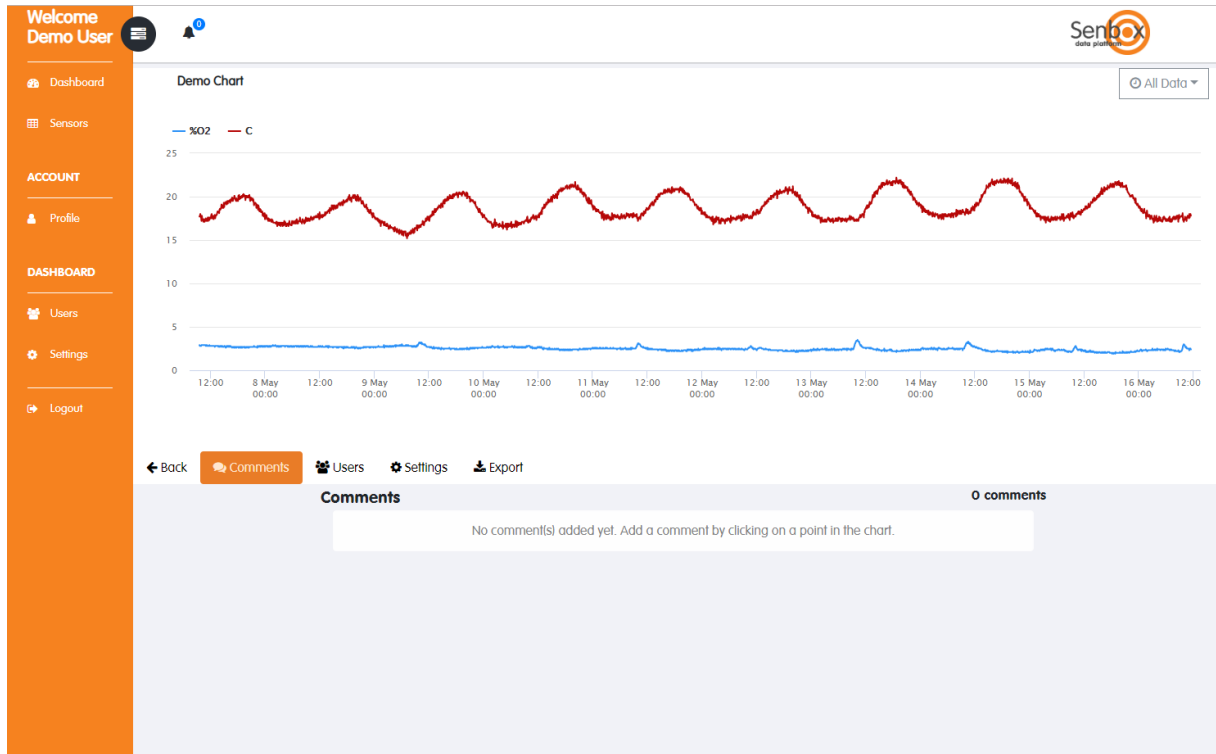
- Chart name: Fill out the name of the chart/graph
- Show old data from sensor(s): Indicate whether you would like to integrate historical sensor data.
- Sensors: Select one or multiple source sensors for this chart
- Share Chart: Choose the privacy settings of the chart
 - [Private graph] only visible for yourself. At a later stage you are still able to give people rights to see the chart.
 - [Public graph] visible for others.

When you filled out and selected all fields, please click on [Create Chart] to actually create and display the graph.

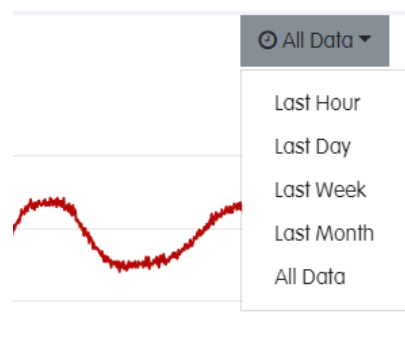
Remark: When you created a chart for the first time with a freshly installed SenBox, a graph will only be shown after two measurements.

5. Chart Screen

The graphs you have created will automatically appear in the dashboard. Enlarge the graph by clicking it. Only the graph will be visible on the screen, as shown in the display below:



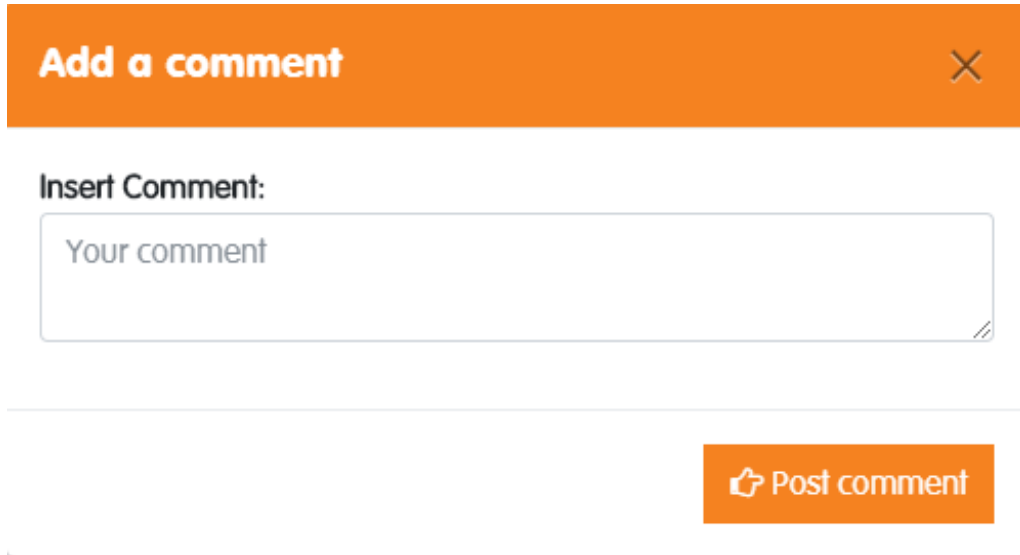
As owner of the graph you have the possibility to change the time period in the [all data] section.



At the bottom of the graph you see other graph functionalities which you can change, like the possibility to add comments.

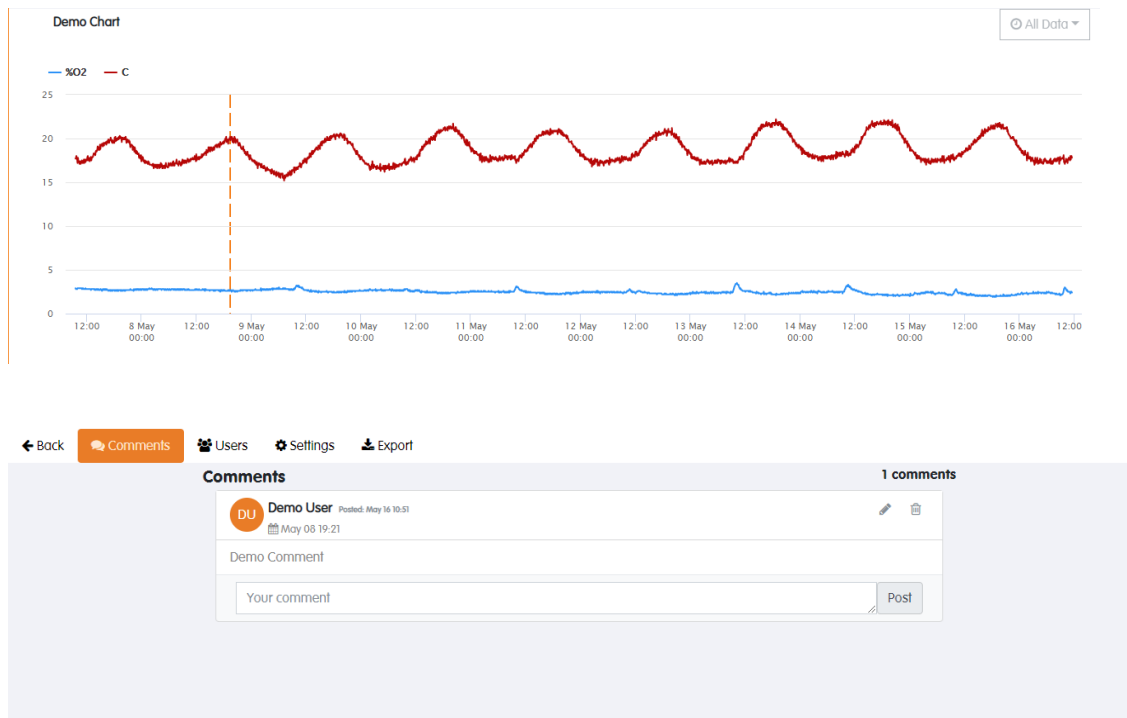
5.1 Comments

You are able to add comments in the graphs. Do this by clicking a specific point in the graph, after which a pop up will appear:



The image shows a pop-up window with an orange header containing the text "Add a comment" and a close button (X). Below the header, the text "Insert Comment:" is followed by a text input field containing the placeholder "Your comment". At the bottom right of the input field is a small icon of a pencil. Below the input field is a horizontal line, and at the bottom right of the entire pop-up is an orange button with a white comment icon and the text "Post comment".

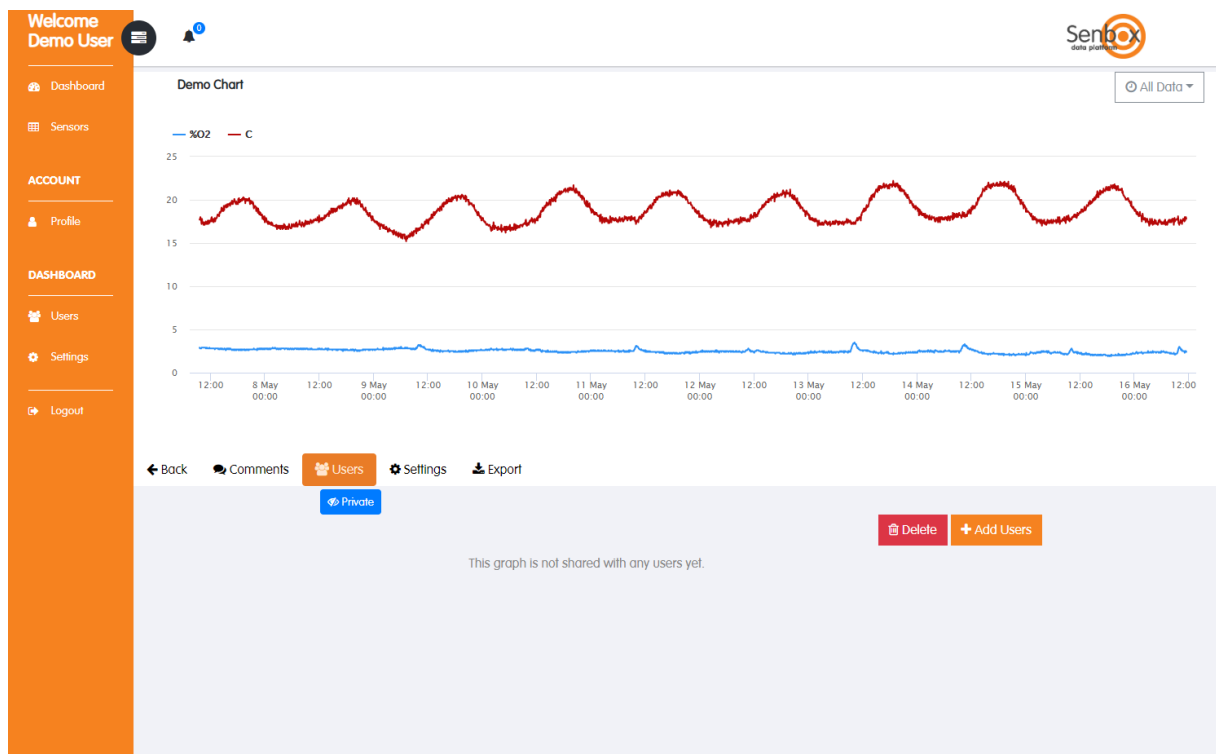
Add your message and click on [Post comment]. In the graph a red vertical marker will be visible with related comment below.



Other users can respond to the comment. After posting the comment, you still are able to edit or delete it.

5.2 Users

In the [Users] section below the graph, you see whether it is a private or public chart. You can change the status by clicking on the blue button. If your graph is [Private], a list of people who are able to see the graph is displayed. You can add people by clicking on [Add Users] or delete people by selecting the specific user and then click on [Delete].



5.3 Settings

When clicking the [Settings] tab, the screen shown below will pop up. Here you can change the main settings of the graph such as name, historical data and source sensors. When you want to delete the graph, you can do it here as well. When you delete the graph you will not delete the underlying data.

Settings



Chartname

Demo Chart

Show old data from sensor(s):

Yes

Selected Sensor(s)

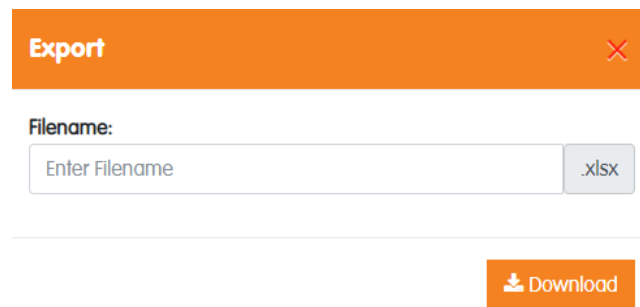
Oxygen + Temp.

 Save changes

 Delete chart

5.4 Export

Clicking on expert the screen shown below will be visible:



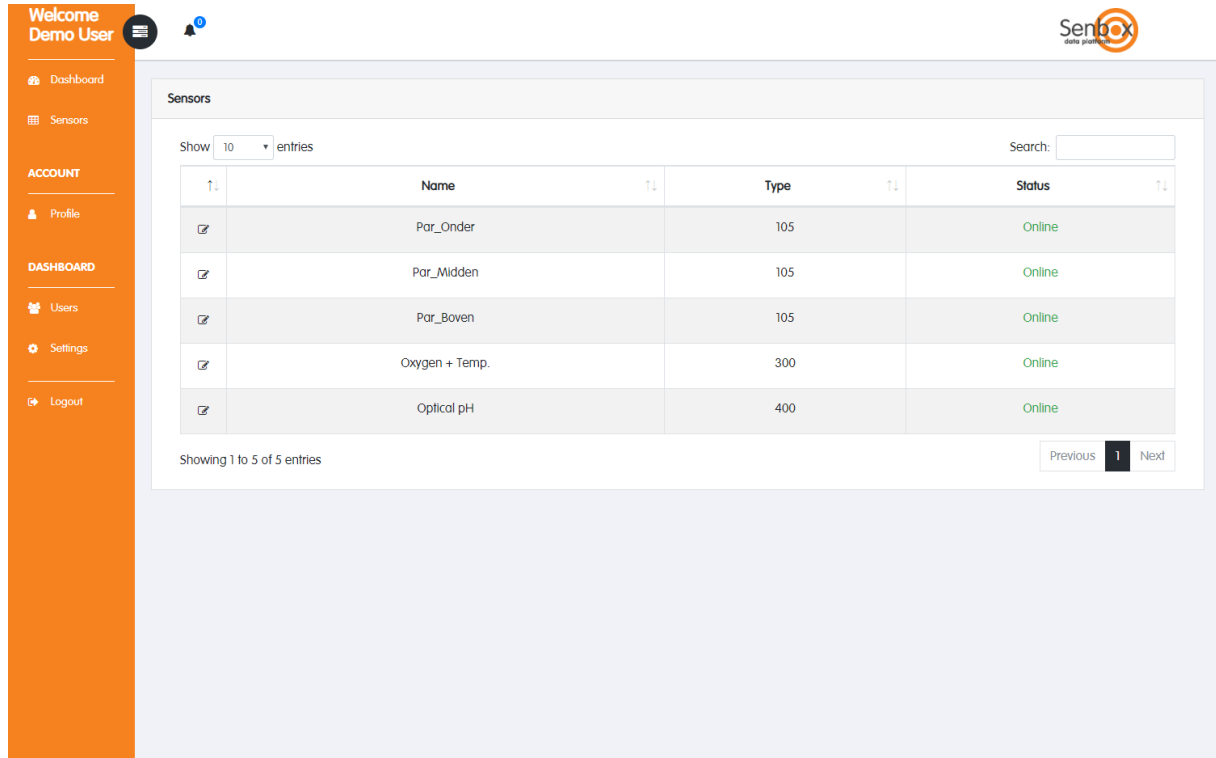
The image shows a modal dialog box titled "Export" with a close button (X) in the top right corner. Below the title, there is a label "Filename:" followed by a text input field containing the placeholder text "Enter Filename". To the right of the input field is a small button labeled ".xlsx". Below the input field, there is a horizontal line, and then an orange button with a download icon and the text "Download".

Here you can export the raw data of the graph. Fill out a filename and click on [Download] to generate the export (excel) file. The generated excel file contains the data from the graph.

Note: you will only get the chart data. So when you select last hour, you will only get the data from the last hour in the export file.

6. Sensors

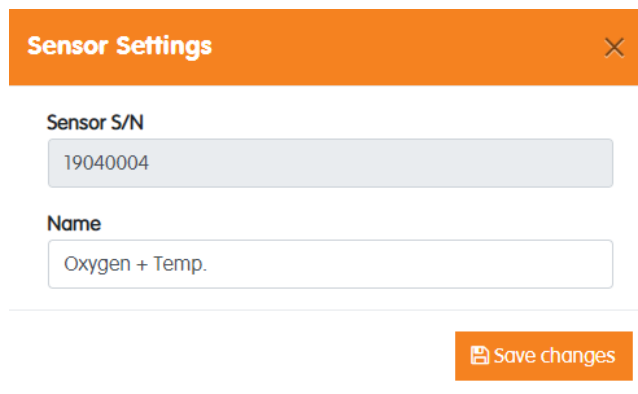
To view all connected sensors, click on [Sensors] in the menu.



The screenshot shows the 'Sensors' page in the application. The left sidebar contains navigation options: 'Dashboard', 'Sensors', 'ACCOUNT' (Profile), and 'DASHBOARD' (Users, Settings, Logout). The main content area displays a table of sensors with columns for Name, Type, and Status. The table lists five sensors: Par_Onder, Par_Midden, Par_Boven, Oxygen + Temp., and Optical pH, all with a status of 'Online'. The table includes a search bar, a 'Show 10 entries' dropdown, and pagination controls (Previous, 1, Next). The bottom of the table indicates 'Showing 1 to 5 of 5 entries'.

	Name	Type	Status
<input type="checkbox"/>	Par_Onder	105	Online
<input type="checkbox"/>	Par_Midden	105	Online
<input type="checkbox"/>	Par_Boven	105	Online
<input type="checkbox"/>	Oxygen + Temp.	300	Online
<input type="checkbox"/>	Optical pH	400	Online

To change sensor setting please click on the edit symbol [✎]. The pop up screen shown below will appear. Here you see the serial number of the Sensor and your chosen sensor name. This name can be changed.



The 'Sensor Settings' pop-up screen displays two input fields: 'Sensor S/N' with the value '19040004' and 'Name' with the value 'Oxygen + Temp.'. A 'Save changes' button is located at the bottom right of the form.

Sensor Settings ✕

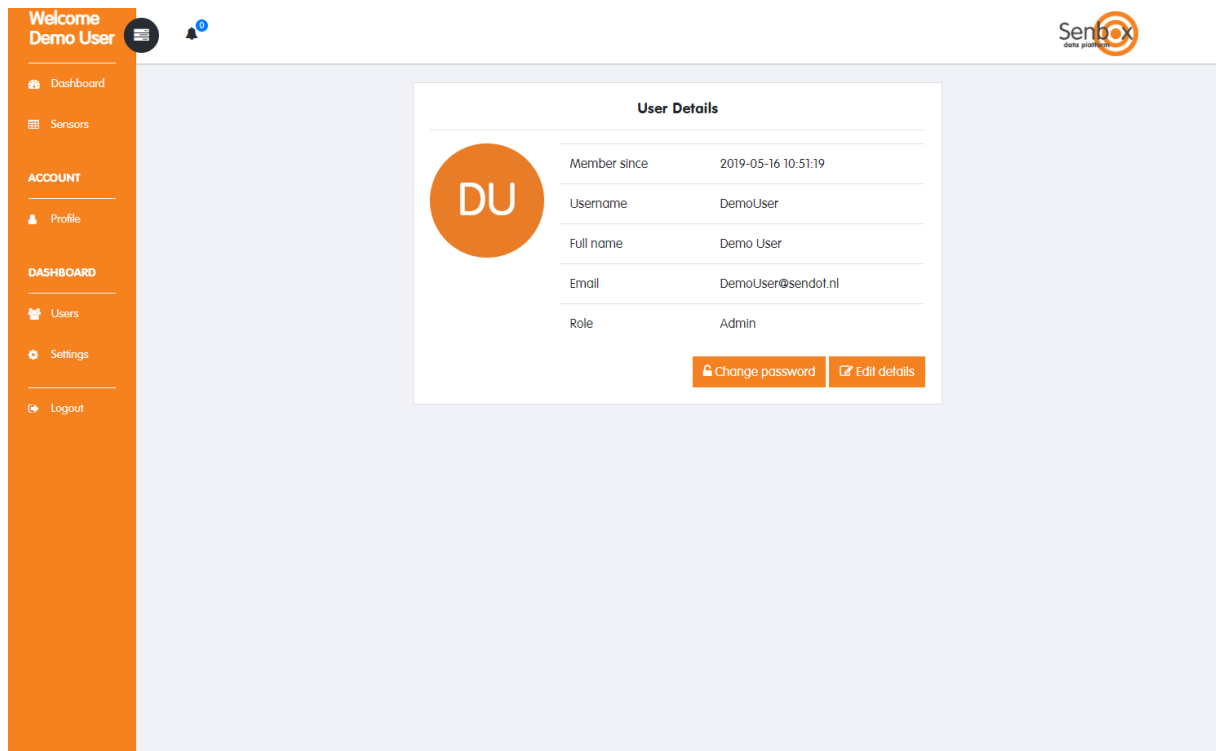
Sensor S/N
19040004

Name
Oxygen + Temp.

Save changes

7. Profile

To see and change your account settings, go to [Profile] in the main menu.



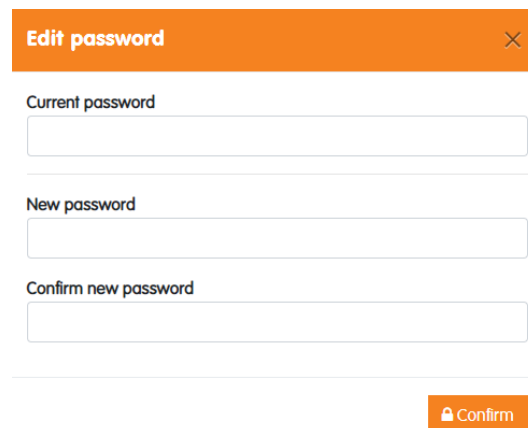
The screenshot shows the user profile page. On the left is an orange sidebar with a menu. The top of the sidebar says "Welcome Demo User" and includes a notification bell icon with a "0". The menu items are: Dashboard, Sensors, ACCOUNT (with a sub-menu for Profile), DASHBOARD (with sub-menus for Users, Settings, and Logout). The main content area is titled "User Details" and features a circular profile picture with the initials "DU". Below the profile picture is a table of user information:

User Details	
Member since	2019-05-16 10:51:19
Username	DemoUser
Full name	Demo User
Email	DemoUser@sendot.nl
Role	Admin

At the bottom right of the "User Details" box are two buttons: "Change password" and "Edit details". The Sendbox logo is in the top right corner.

7.1 Change Password

To change your password, click on [Change password]. Enter your current password and then your new password twice. Click on [Confirm] to change it.



The "Edit password" form is shown in a modal window with an orange header and a close button. It contains three input fields:

- Current password
- New password
- Confirm new password

At the bottom right of the form is a "Confirm" button.

7.2 Edit Details


To change your personal details, click on [Edit details]. Here you can change main account details such as name and email address.

Edit Details ✕

Username

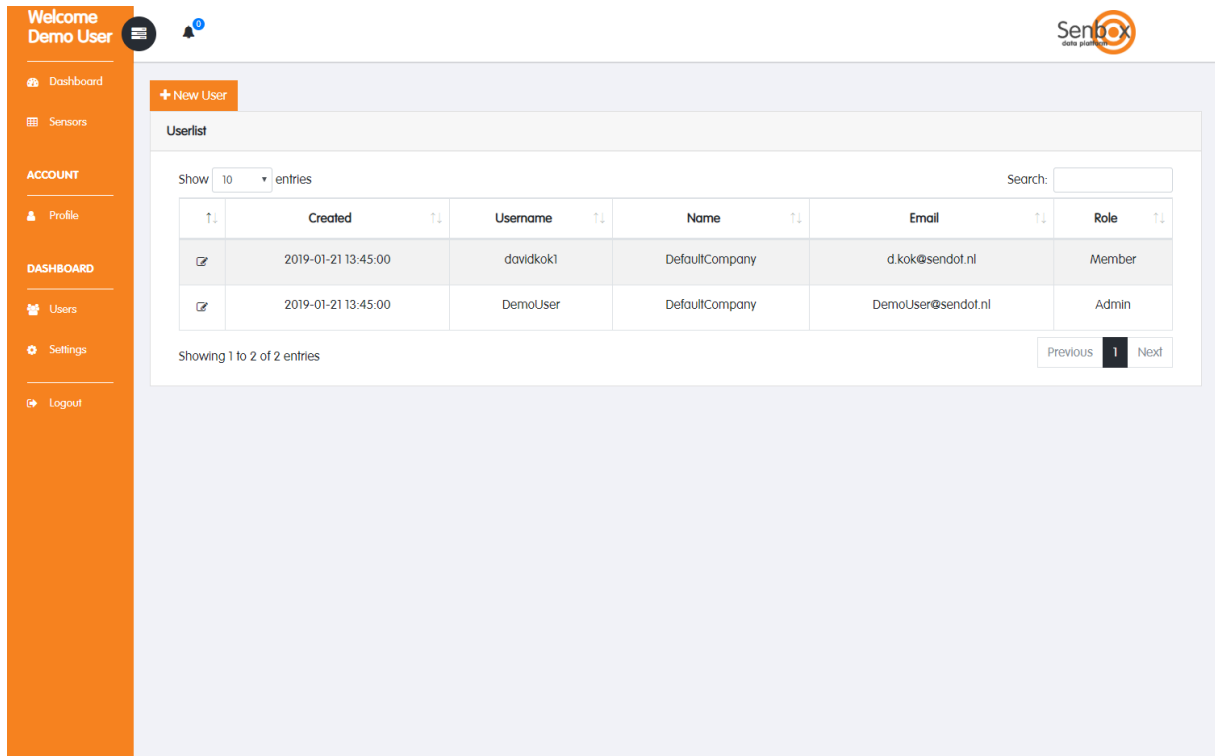
First name **Last name**

Email

 Save changes

8. Users

In the [Users] Menu an administrator can view and manage all users that are active in the system. You can edit user settings and add new users.

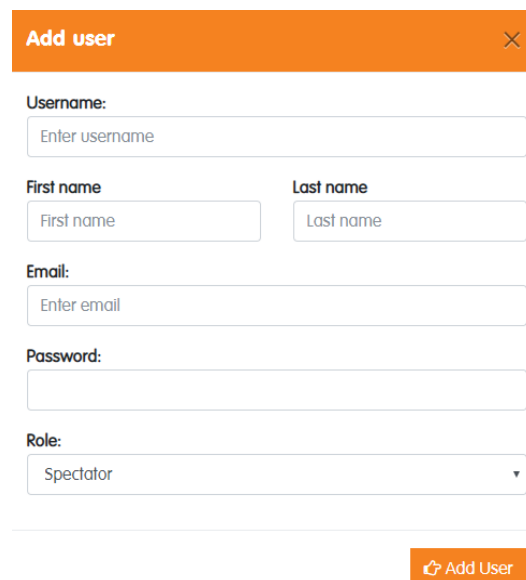


The screenshot shows the Sendbox user management interface. On the left is an orange sidebar with navigation options: Dashboard, Sensors, ACCOUNT (Profile), and DASHBOARD (Users, Settings, Logout). The main content area is titled 'Userlist' and features a '+ New User' button. Below the button is a search bar and a table with columns: Created, Username, Name, Email, and Role. The table contains two entries: 'davidkok1' (Member) and 'DemoUser' (Admin). A pagination bar at the bottom indicates 'Showing 1 to 2 of 2 entries' and includes 'Previous', '1', and 'Next' buttons.

Created	Username	Name	Email	Role
2019-01-21 13:45:00	davidkok1	DefaultCompany	d.kok@sendot.nl	Member
2019-01-21 13:45:00	DemoUser	DefaultCompany	DemoUser@sendot.nl	Admin

8.1 New User


To create a new user, click on [New User]. You will see the following screen:

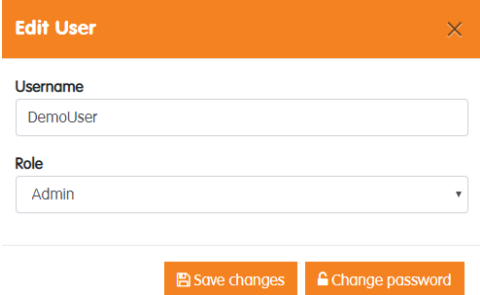


The 'Add user' form is displayed in an orange modal window. It includes the following fields: a 'Username' text input, 'First name' and 'Last name' text inputs, an 'Email' text input, a 'Password' text input, and a 'Role' dropdown menu currently set to 'Spectator'. An 'Add User' button is located at the bottom right of the form.

Here you can fill out all data for a new user. Please note, when you generate a new user no automatic mail is sent to the e-mail address of the user. You will have to transfer their credentials yourself.

8.2 Edit User

Click the edit symbol to [] to change user settings: name and role. The screen shown below will pop up:



Edit User ×

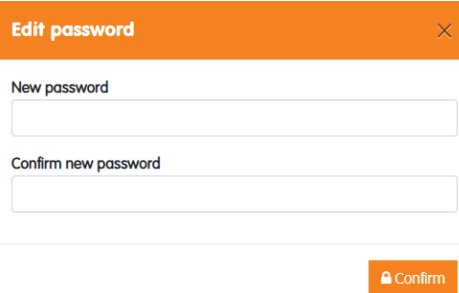
Username
DemoUser

Role
Admin

Save changes Change password

8.3 Change password

To change the password of a user, use the [Change password] button.



Edit password ×

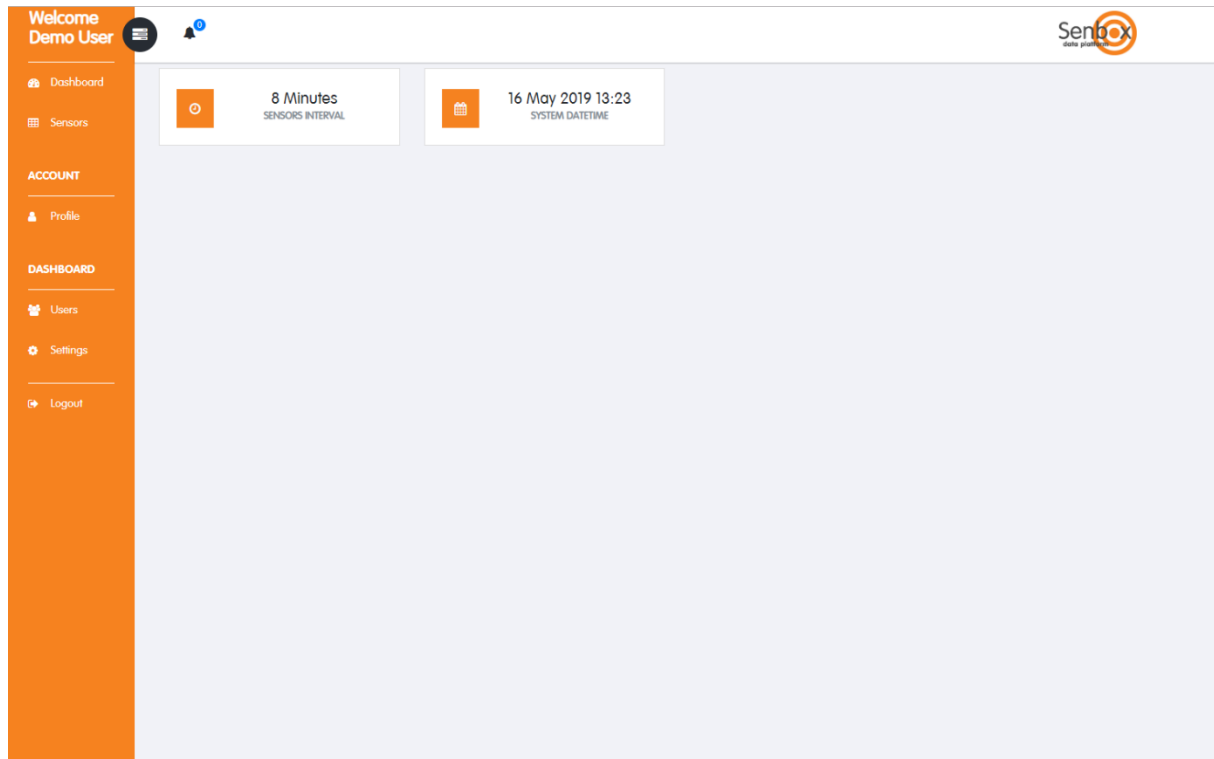
New password

Confirm new password

Confirm

9. Settings

For detailed information about the SenBox system, please click [Settings] in the menu.



9.1 Sensors Interval

If you click on the [Sensors Interval] button a screen will appear where you can set the measurement interval for the sensors (in minutes).

Change Interval ✕

Interval (minutes):


Save

9.2 System Date Time

By clicking the [System Date Time] button, you can manually change date and time.

Set system time ✕

Time:

 Save

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