



LOG-AQUA

User Interface

<https://home.aqualabo.fr/>

User manual



LOG-AQUA USER INTERFACE



Before setting up your logger in the web interface, please proceed with the physical installation of your equipment (sensors, separators, etc.).

Refer to the *LOG-AQUA standalone and communicating Logger Manual*

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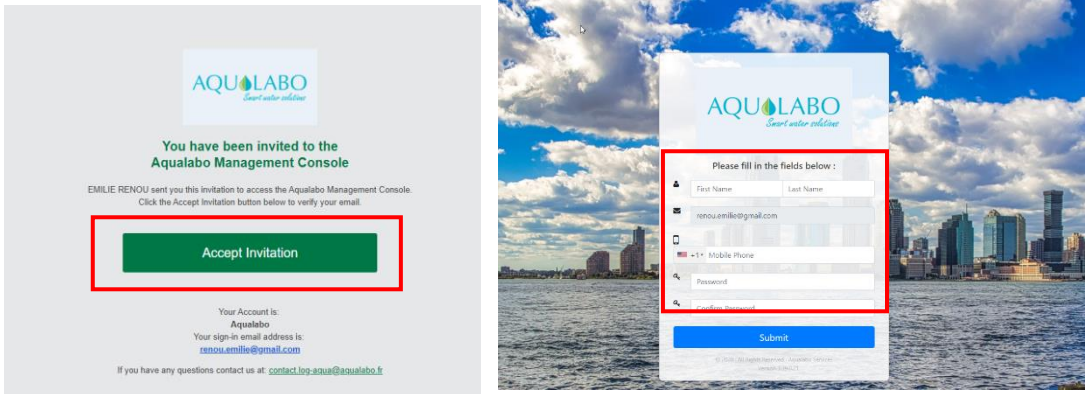
LOG-AQUA USER INTERFACE

1. Accessing the Configuration Web Interface <https://home.aqualabo.fr/>

You have received an email invitation from contact.log-aqua@aquamaro.r to log in to your account user interface.


If you have not received anything, check that the Email did not go to your SPAM.

Click on "Accept invitation". Enter your last name, first name, telephone number and password to log in.



2. Introduction to the Web Interface

Search for a logger if more than one device is connected to the same account



AQUALABO
3.40.2.5

Visualisation

Rapports

Appareils

Compte

API

Help

emilie.reno...

Saisir pour trouver les sites...

AQUALABO

New modules

4020016240 WA1111-EU-AL

4020016241 WA1111-EU-AL

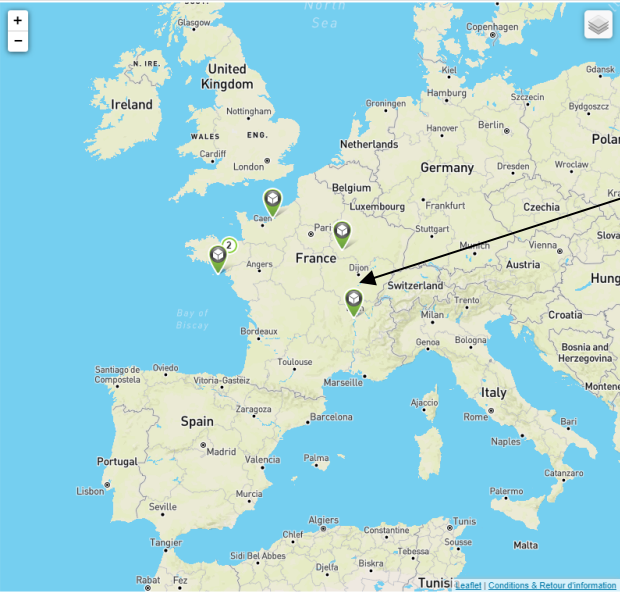
4020016242 WA1111-EU-AL

4020016243 WA1111-EU-AL

4020016244 WA1111-EU-AL

4020016246 WA1111-EU-AL

4020016247 WA1111-EU-AL



GPS location of the logger(s)
(Option to zoom in on the map)

Menus to view data, extract reports, set its alerts, and generate an API key....

Set its profile parameters

Select data for a logger by clicking on the small black arrow to the left.

LOG-AQUA USER INTERFACE

3. Setting the physical-chemical data parameters

1. Configure the engineering units

The values as they initially appear cannot be used; the raw values given by the sensor at the logger must be transformed into an engineering unit to obtain the correct final values.

Device menu → Select the serial number of the appropriate logger (the operation is to be performed for each of the loggers)

The list of parameters is displayed:

The screenshot shows the AQUALABO user interface. On the left, a sidebar menu has 'Appareils' highlighted with a red box. The main area displays a list of parameters for a specific logger (N/S: 3120015829 N/P: WA1111-EU-V2). The parameters listed are: Battery Life (11 % | 16 il y a une minute), Communication Status (NORMAL | 14 il y a une minute), Conductivity (250,000 uS/cm | 17 il y a une minute), Dissolved Oxygen (6,930 mg/L | 17 il y a une minute), GPS (0,8 htop | 29-09-2020 14:36:09), and Internal Humidity (7 % | 32 il y a une minute). The 'Conductivity' parameter is highlighted with a red box. On the right, there is a section for 'INTERVALLE DE TRANSMISSION' with three buttons: 'Normal' (1h), 'Événement' (30min), and 'Urgence' (10min). Below this is a section for 'GESTION DES SEQUENCES' with a table showing 'Capteur', 'Channel Type', 'Chann Numb', 'Séquence', 'Groupe d'échantillonnage', and 'Intervalle d'échantillonnage'.

Click on each of the parameters to be configured (as per the sensors connected to the logger). Important: There are at least two parameters for each sensor. Example for pH sensor: pH, Redox, Temperature, i.e. 3 parameters. Configure only the parameters connected to the logger (see parameter table on page 6).

Example with the conductivity parameter

Click the parameter in the list then the **Configuration and Thresholds** tab on the right-hand side

The screenshot shows the 'Conductivity' configuration page. On the left, the 'Conductivity' parameter is highlighted with a red box. The main area displays the configuration for the 'Conductivity' parameter. It includes a 'Site Name' (3120015829 WA1111-EU-V2), 'Type' (Conductivity (uS/cm)), and 'Status' (VISIBLE). Below this, there is a section for 'Échantillons' with a red box around the 'Configuration et Seuils' tab. The 'Configuration et Seuils' tab shows a 'Traitement des données' section with 'État: Active' and 'Reapply' button. Below this, there is a 'Source' section with 'Channel Type - SERIAL SINT32, Channel Number - 3'. The 'Filtre des valeurs brutes' section shows a range of [-2147483645, 2147483645]. The 'Convertir en unités techniques' section shows a 'Type' dropdown. The 'Limite de valeur finale' section shows a range of [-20, 250].

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The three fields shown in red above are to be parameterized:

Source : Channel Type - SERIAL SINT32, Channel Number - 3

Filtre des valeurs brutes ⓘ

Filtre de valeurs brutes

[-2147483648; 2147483648] ✎

➔

Convertir en unités techniques ⓘ

Type

Linear Transformation

Arguments

$final = \frac{1}{1000} raw$ ✎

➔

Limite de valeur finale ⓘ

Plage de valeurs finale

[-20; 250] ✎

Refer to the table below to fill in the various fields according to the sensor(s) connected to the logger:

Sensors	Parameters	Unit	Raw values	Engineering unit	Final values
NTU	Turbidity	NTU	-2147483648; 2147483648	1/1000	-20 ; 4000
	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
	TSS	mg/L	-2147483648; 2147483648	1/1000	-10 ; 4500
OPTOD	Dissolved oxygen	mg/L	-2147483648; 2147483648	1/10000	-1 ; 20
	Dissolved oxygen	% sat	-2147483648; 2147483648	1/100	0;200
	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
C4E	Conductivity	μS/cm	-2147483648; 2147483648	1/1000	-20 ; 200000
	Salinity	g/kg	-2147483648; 2147483648	1/1000	0 ; 60
	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
	TDS	ppm	-2147483648; 2147483648	1/1000	-10 ; 133000
PH/Redox	pH	pH	-1 ; 20000	1/1000	0 ; 14
	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
	ORP	mV	-2147483648; 2147483648	1/1000	-1000 ; 1000
EHAN	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
	ORP	mV	-2147483648; 2147483648	1/1000	-1000 ; 1000
MESS/VB5	Temperature	°C	-2147483648; 2147483648	1/1000	-10 ; 50
	TSS	g/L	-2147483648; 2147483648	1/1000	-10 ; 60
	Sludge Blanket	%	-2147483648; 2147483648	1/1000	-1 ; 100
	Turbidity	FAU	-2147483648; 2147483648	1/1000	-10 ; 5000

In case of STACSENSE sensor connected to the LOG-AQUA, don't configure engineering units for the parameters of this sensor. Let them configured as when receiving the logger.

Click on "Update the samples" and then Confirm.

Carry out the operation on all the required parameters.

Let the first values appear and check that they are consistent with the type of medium, measuring ranges of each sensor, etc.

- Do not hesitate to use the magnet to force data transfer to the server (leave it on the logo in front of the logger for approximately 5 seconds) to immediately view the data

If this is not the case:

- Check each setting to configure (an oversight?)
- Check that the cables are connected correctly.
- Check that the sensor has been properly calibrated to average 1 (particularly when using your own sensors)

LOG-AQUA USER INTERFACE

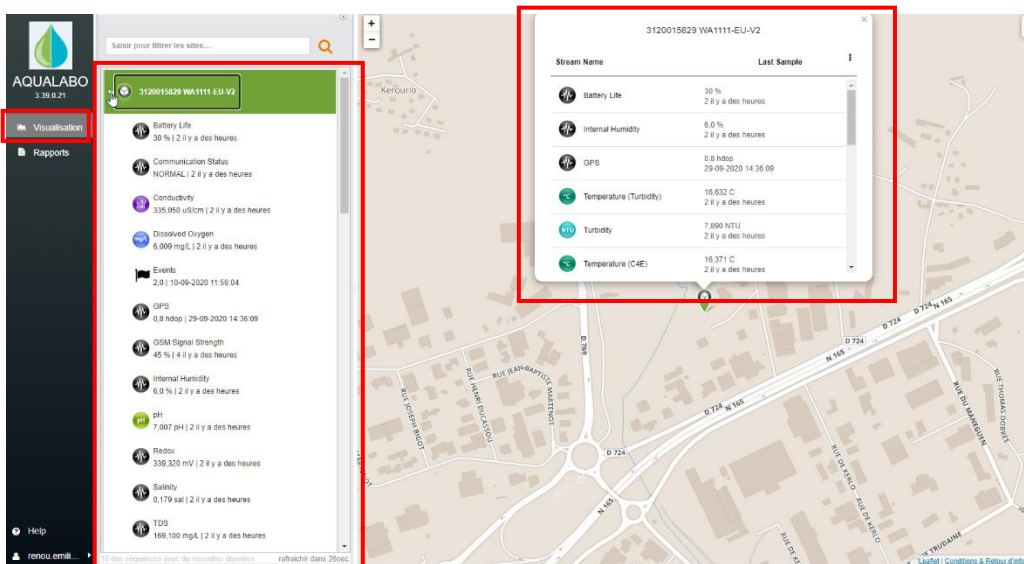
2. View its data

Select the **Visualization** menu

By clicking the black arrow to the left of each device, a drop-down menu will appear on the screen.

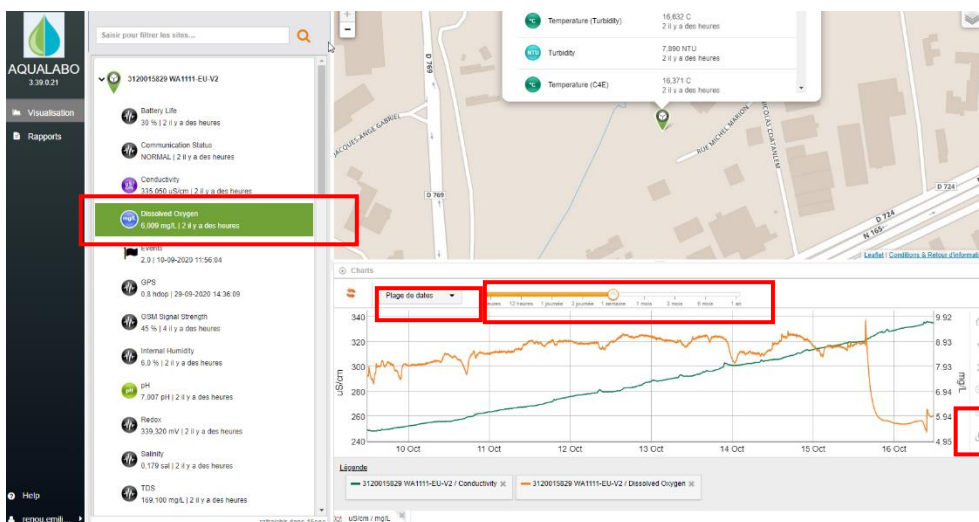
The list of physical-chemical parameters, last sample, last transmission, battery level and latest alerts are displayed.

All of the settings recommended by AQUALABO are displayed by default, even if not all the sensors are connected. Only take into account the parameters of the sensors connected to the logger. This means any sensor in the PONSEL range can be connected.



Click on the desired setting.

- The value of the last sample and last transmission are displayed. The data graph is to the right.
- You can select the date range as desired by using the cursor or by setting specific dates via the Customized Date Interval/Range menu
- Extract the graph in PNG format using the download link button in the lower right-hand corner



LOG-AQUA USER INTERFACE

3. Configuring alert thresholds

Example of threshold configuration with the conductivity setting

Devices menu → Select the serial number of the logger to be configured → Selection of the parameter on which one or more thresholds have to be configured → **Configuration and Thresholds** tab

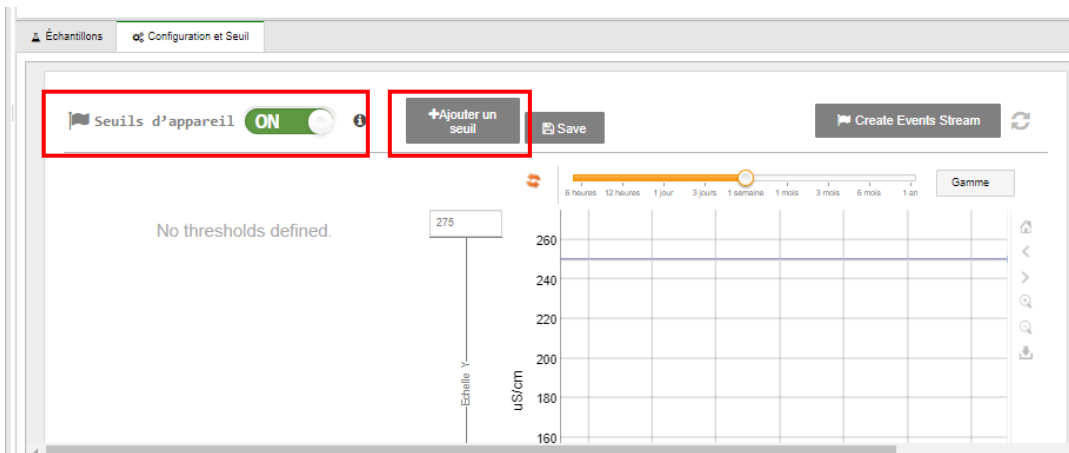
The screenshot shows the LOG-AQUA user interface. On the left, the 'Appareils' (Devices) menu is highlighted. In the center, a list of parameters is shown, with 'Conductivity' (250,000 uS/cm) selected and highlighted with a red box. On the right, the 'Conductivity' configuration page is displayed. It shows the 'Configuration et Seuil' (Configuration and Threshold) tab selected, with a red box around the 'Configuration et Seuil' button. The page displays the 'Traitement des données' (Data Processing) section, which includes 'Filtre des valeurs brutes' (Raw value filter), 'Convertir en unités techniques' (Convert to technical units), and 'Limite de valeur finale' (Final value limit).

Move the cursor down to the right and **click the Device thresholds OFF button**

The screenshot shows the LOG-AQUA user interface. On the left, the 'Appareils' (Devices) menu is highlighted. In the center, a list of parameters is shown, with 'Conductivity' (250,000 uS/cm) selected and highlighted with a red box. On the right, the 'Conductivity' configuration page is displayed. It shows the 'Configuration et Seuil' (Configuration and Threshold) tab selected, with a red box around the 'Configuration et Seuil' button. The page displays the 'Seuils d'appareil' (Device thresholds) section, which includes a red box around the 'OFF' button. Below the button, the text 'Faites glisser le curseur sur activer les seuils' (Slide the cursor to activate the thresholds) is visible.

LOG-AQUA USER INTERFACE

The button changes to green "ON". Click **Add a threshold**



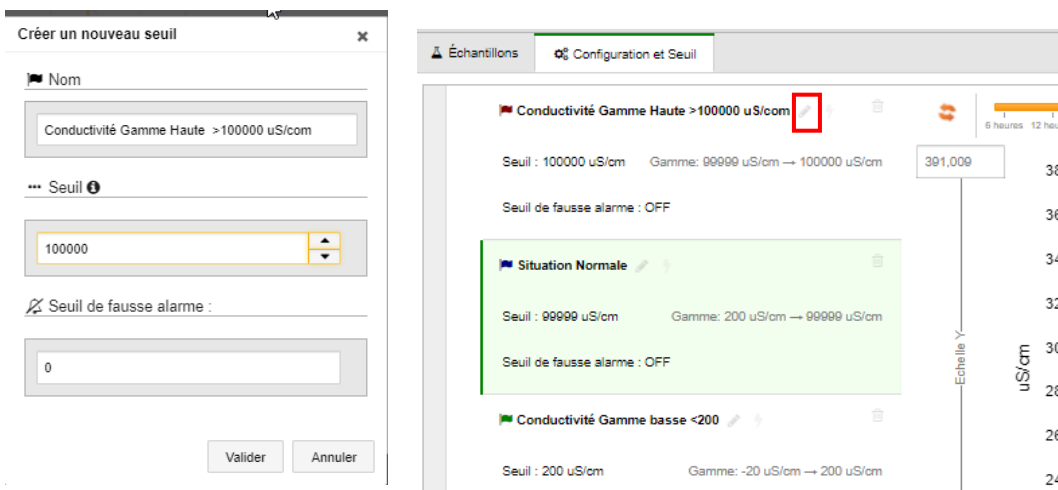
Specify the **threshold name** and **threshold value** from which an alert will be generated. **Confirm**.

Example here of a high threshold of 100,000 $\mu\text{S/cm}$.

Create a low/high threshold based on your application.

The configurations are displayed in the interface (see below to the right).

More broadly, the logger manages alert intervals.



Also create the "normal" situation, especially when there is a high and low threshold, to make reading easier and faster. Here, it is between 200 and 99,999 $\mu\text{S/cm}$.

You can change a threshold by moving the mouse and clicking on the small pencil.

LOG-AQUA USER INTERFACE

Assign the group of users to receive alerts when a threshold is exceeded.

Run the mouse over it and click on the small lightning bolt representing the threshold to be configured

Aqualabo has pre-parameterized the user group mentioned in the previous questionnaire.

If you wish to modify it or create a new one, refer to item No. 4 on page 13.



The following window will appear.

- Click *Immediately*
- Select the Event or Emergency transmission interval. This will send a transmission every 30 or 10 min depending on the status chosen. The initial transmission will return to normal once the threshold has returned to "normal situation"
- Indicate the frequency of acquisition for sensors during events (alerts): e.g. every 2 minutes
- Select the **user group for the account to receive alerts** from the drop-down menu
- Select the alert type. Click on "Add". If SMS + Email alert, do this twice.
- Confirm

Repeat the operation on each of the thresholds to be configured for this setting.

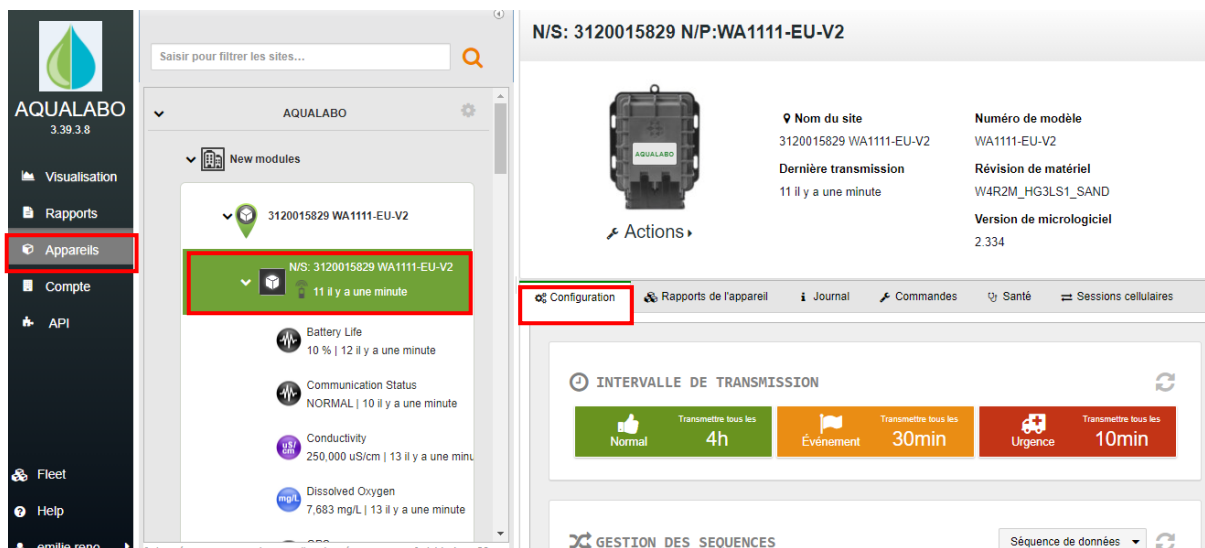
We recommend that you do not send SMS or Email messages for the "normal" situation so as not to receive them in an untimely way.

Set the other thresholds to the desired parameters.

LOG-AQUA USER INTERFACE

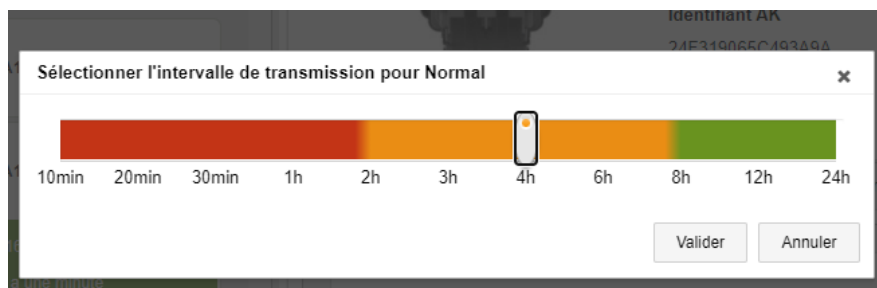
4. Configuring the interval of transmission to the server

Device menu → Select the appropriate logger and then click on the **serial number**. A window will open to the right. Click the **Configuration** tab .



Click on the first **Normal** green button and select the desired transmission interval on the page.

Important: Once implemented, changes can still be made but you will have to wait for the next transmission before the change becomes effective. Otherwise, the transmission will have to be forced using the magnet (leave approximately 5 seconds). The intervals can also be changed if events (alerts) occur and in an emergency.



Repeat the operation on the other loggers in your account if you have more than one.

LOG-AQUA USER INTERFACE

5. Configuring the frequency of acquisition of digital sensors

In the same menu, scroll down to access the acquisition frequencies for each parameter.

Move the mouse next to the time indicated on the desired menu to reveal the pencil.

The screenshot shows the LOG-AQUA user interface. On the left is a sidebar with navigation options: Visualisation, Rapports, Appareils, Compte, API, Fleet, and Help. The main area displays the configuration for a specific device, 'N/S: 4020016237 N/P:WA1111-EU-AL'. Below the device information, there is a table titled 'Gestion des séquences'. The table has columns: Capteur, Channel Type, Chann Numbre, Séquence, Groupe d'échantillonnage, and Intervalle d'échantillonnage. The 'Intervalle d'échantillonnage' column is highlighted with a red box, showing a value of '2 min.' and a pencil icon for editing. The table lists several sequences, including 'Temperature (Turbidity)' and 'Turbidity', all with an interval of '2 min.'.

Click it to edit. Indicate the interval desired by the customer. Please note that the time indicated is in seconds! The default frequency is 2 minutes. In the event of a change, it will only be effective at the next transmission. Otherwise, run the magnet over the front panel of the logger to force the transmission.

The screenshot shows a dialog box titled 'Mettre à jour l'intervalle d'échantillonnage pour Groupe 3'. The dialog box contains a text input field with the value '120' and a red box around it. Below the input field is a yellow information box with text explaining the modification. At the bottom are 'Valider' and 'Annuler' buttons.

Paramétrer l'intervalle d'échantillonnage en secondes :

120

Modifier l'intervalle d'échantillonnage pour le groupe d'échantillons 3
Cette modification aura un effet sur les séquences suivantes :
Temperature (Turbidity), Turbidity, Temperature (C4E), Conductivity, Salinity, TDS, Temperature (OPTOD), Dissolved Oxygen, Temperature (ORP), ORP Redox, Temperature (Mes5), Sludge Blanket, Suspended Solid, Turbidity (Mes5)

Valider Annuler

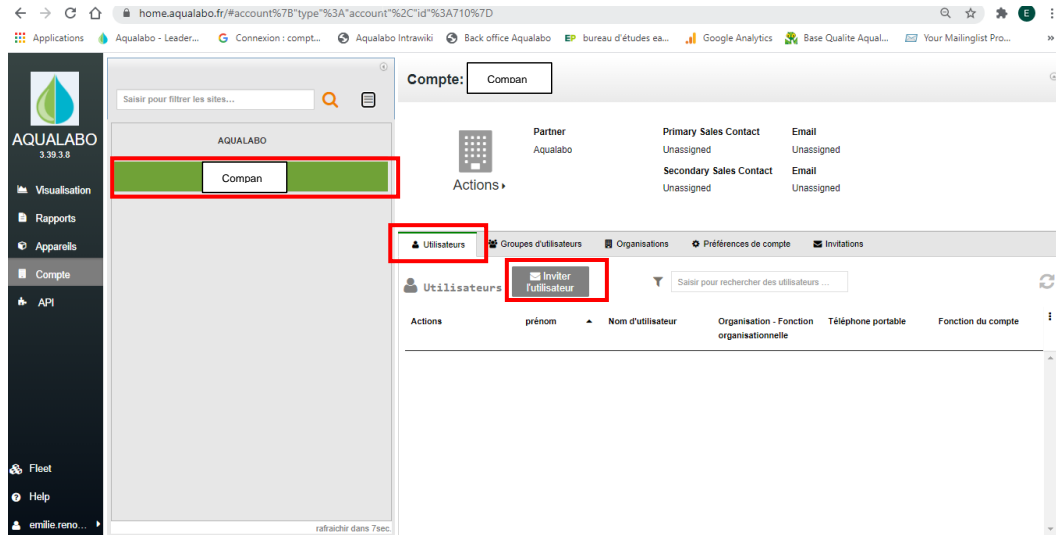
LOG-AQUA USER INTERFACE

4. Managing user groups and statuses

1. Creating a new user

Aqualabo has created your account and registered the users listed in the earlier questionnaire.

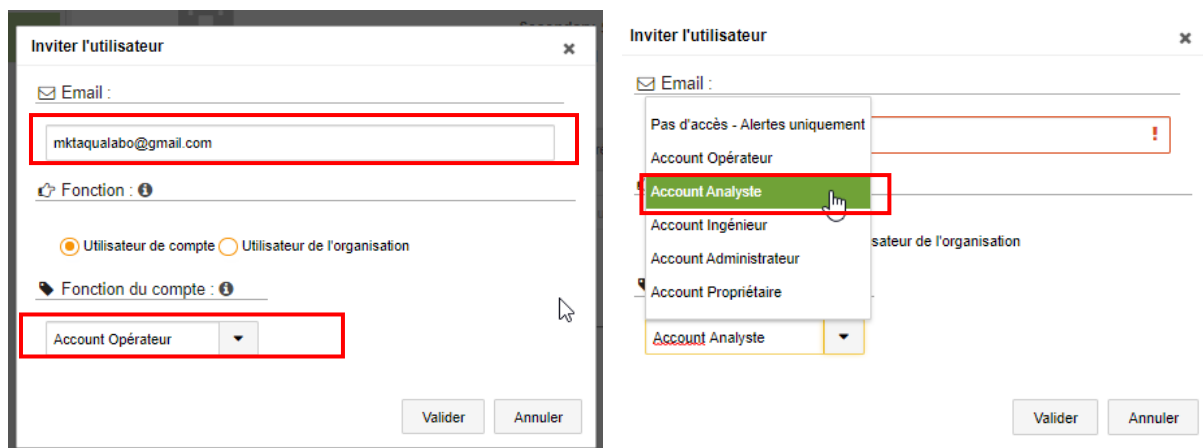
To create a new user for the account, click the **Users** tab and then **Invite User**



Enter the user's email address in the Email box and then select the account function in Account function. Choose the Status:

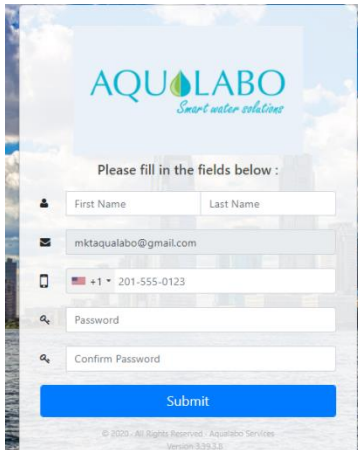
- No access: The user only receives Email and/or SMS alerts
- Analyst: The user only has access to the following menus: View + Report + Reception of alerts by SMS and Email.
- Engineer: The user only has access to the following menus: View + Report + Device + Reception of alerts via SMS and Email.
- Administrator: The user has access to all menus except Account
- Owner: The user has access to all menus

Repeat the operation as many times as there are desired users. They will automatically receive an Email inviting them to sign in to their account





LOG-AQUA USER INTERFACE

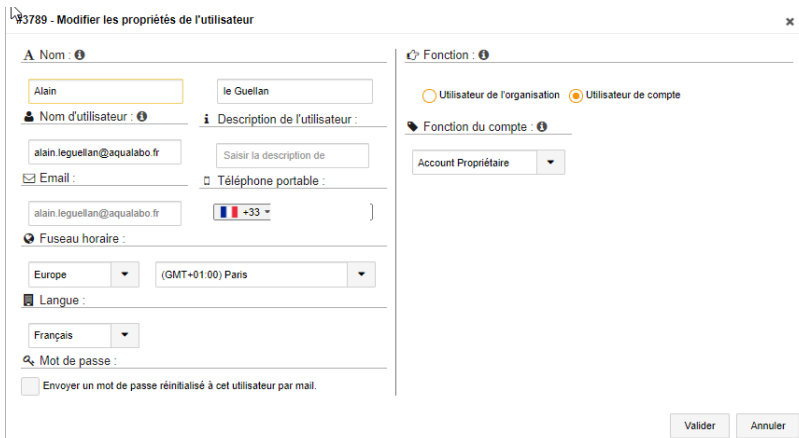
Users receive the invitation by Email and must validate their access via the form below. They must indicate their last name, first name, telephone number and log-in details. They will then access the data from the logger(s).



The login form for AQUALABO features the company logo at the top. Below it, a prompt asks users to fill in fields for First Name, Last Name, Email (pre-filled with mktaqualabo@gmail.com), Phone Number (pre-filled with +1 201-555-0123), Password, and Confirm Password. A blue Submit button is at the bottom. Footer text includes copyright information for AQUALABO Services and version 3.0.3.0.

Once users have validated their access, you can access all the users' information, and fill in the missing information with the little pencil if necessary.

Utilisateurs						
Inviter l'utilisateur						
Saisir pour rechercher des utilisateurs ...						
Actions	prénom	Nom d'utilisateur	Organisation - Fonction organisationnelle	Téléphone portable	Fonction du compte	
	Alain	le Guellan	alain.leguellan@aqualabo.fr	+33	Account Propriétaire	
	EMILIE	RENOU	emilie.renou@aqualabo.fr	+33	Partenaire	

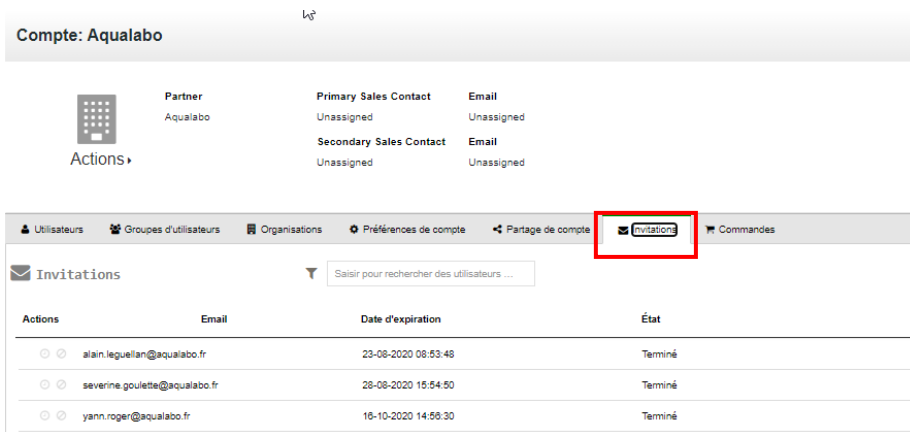


This form allows editing user details for 'Alain le Guellan'. It includes fields for Name (First and Last), Username (alain.leguellan@aqualabo.fr), Email, and Mobile Phone (+33). There are also dropdowns for Timezone (Europe) and Language (Français). A 'Fonction' section has radio buttons for 'Utilisateur de l'organisation' and 'Utilisateur de compte', and a dropdown for 'Fonction du compte' (Account Propriétaire). A 'Mot de passe' field and a checkbox for password reset are at the bottom. Validation and Cancel buttons are on the right.

The various invitations sent can be tracked in the **Invitations** tab

The "Pending" status means that users have not yet validated their access.

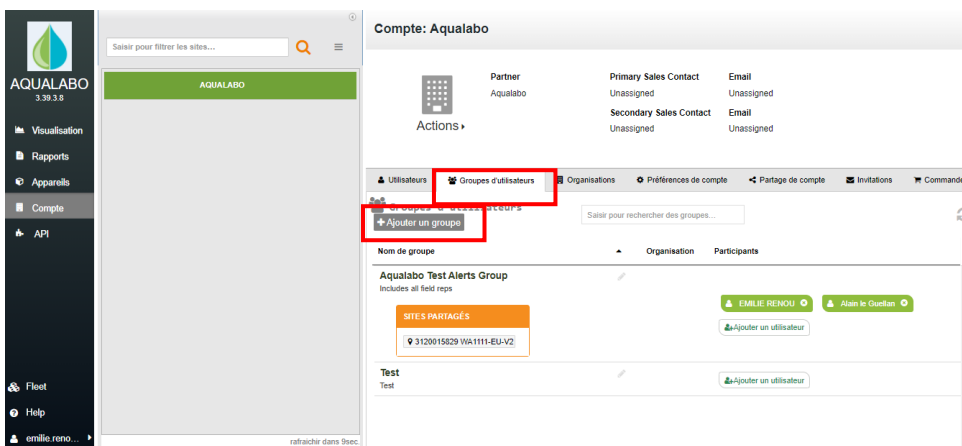
LOG-AQUA USER INTERFACE



2. Creating a new user group for alerts

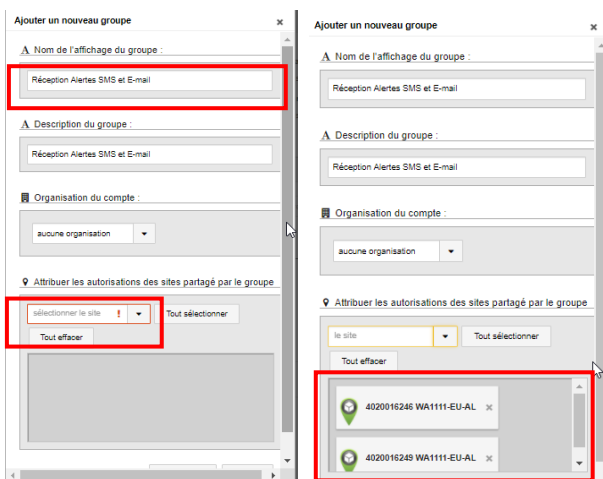
Account Menu → User Group tab → Add a group

Aqualabo has pre-configured a group of users according to the previously completed questionnaire. However, you can edit it or create a new one



Specify the user group name and description, and choose the logger(s) from the drop-down list.

You can have a different alert group per logger (if you have more than one in your account) depending on your application.



LOG-AQUA USER INTERFACE

Return to the user groups page. The group has been created in orange with the selected logger(s). Click **Add a user**.

Aqualabo Test Alerts Group

Includes all field reps

SITES PARTAGÉS

3120015829 WA1111-EU-V2

EMILIE RENOU

Alain le Guellan

Ajouter un utilisateur

Test

Test

Ajouter un utilisateur

Select the desired user from the drop-down menu. Confirm.

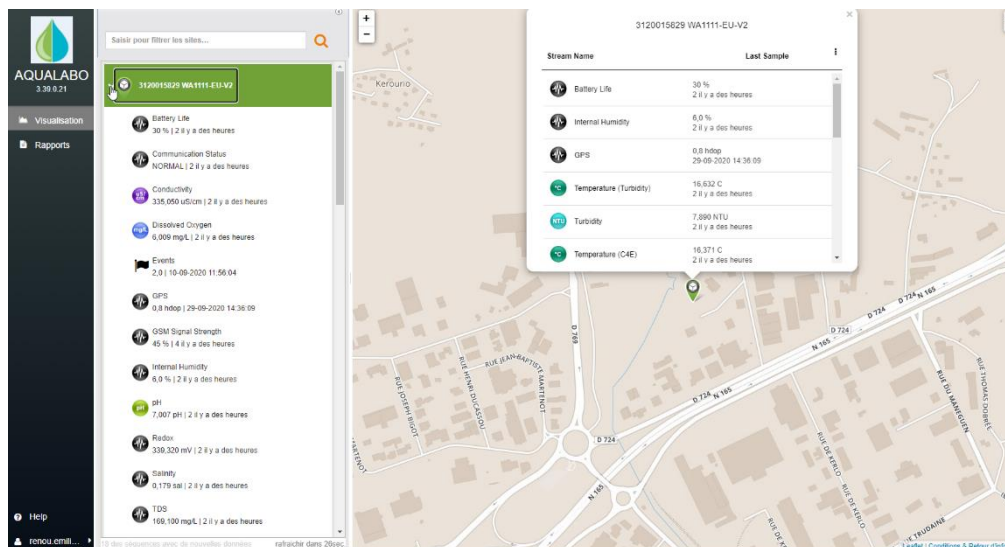
Repeat the same operation for the desired number of users in this group (see Customer Questionnaire). It is not mandatory for all users to receive alerts.

Remember to return to the configured thresholds to change the alert user group if necessary if the group has changed.

LOG-AQUA USER INTERFACE

5. Viewing the GPS position of a logger

For this to be taken into account and to update correctly, we recommend **leaving the logger in the open air and in clear skies for 10 minutes**




You can also manually enter GPS coordinates if needed.

Devices menu → Select the logger serial number in the part to the right of the menu

Manually enter the GPS coordinates (latitude and longitude) in the box provided.

Site:

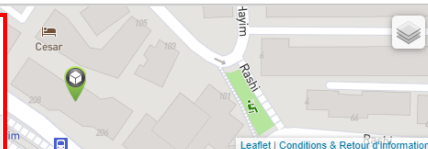


Organisation	Non attribué	Longitude	35.2072441
Latitude	31.7881427	meilleur HDOP	1.8

Actions ▶

Emplacement

Emplacement Faites glisser ou entrez les coordonnées pour modifier l'emplacement ...



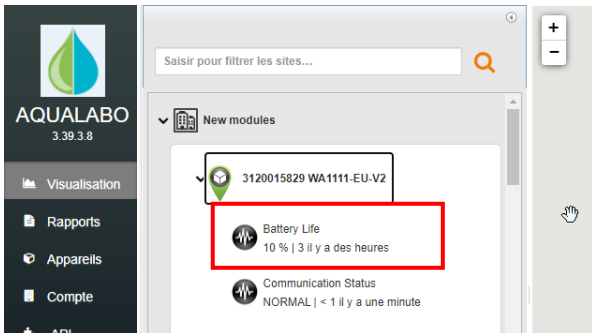
LOG-AQUA USER INTERFACE

6. Checking the condition of the battery in the logger

Check the condition of the logger battery with the user interface

Viewing Menu → Select the serial number of the logger in the list

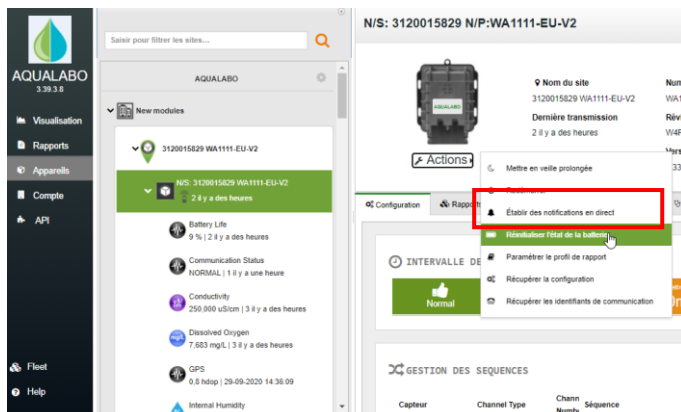
Then check the **Battery Life** setting



Change the battery if necessary (See *Instructions for changing the LOG-AQUA lithium battery* available on our website).

We advise planning a change when there is only 15% of battery life left because the energy drain is not linear.

Once changed, select the **Devices** menu → Select the serial number of the logger from the **Reset Battery Status** list → to reset it to 100% in the interface

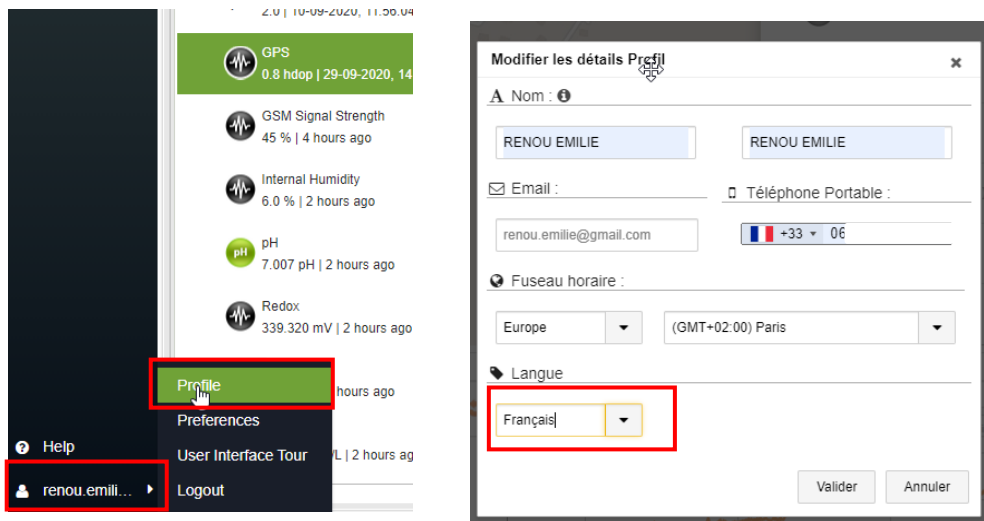


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7. Edit your Profile / Change the interface language

Click on your profile name in the lower left corner / Select Profile / Edit Profile

You can change your name, enter your Email address, phone number, and change the language using the drop-down menu.

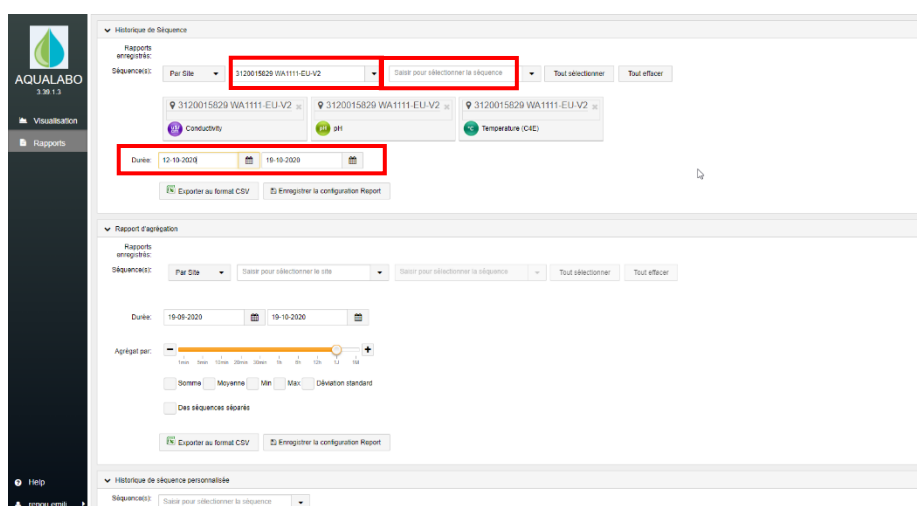


8. Retrieving reports

Select the **Reports** menu

In Sequence History, you can select a device and the desired settings from the drop-down menus, as well as the date ranges.

Click "Export to CSV format". You can also save the report configuration so that you do not have to reselect everything each time.

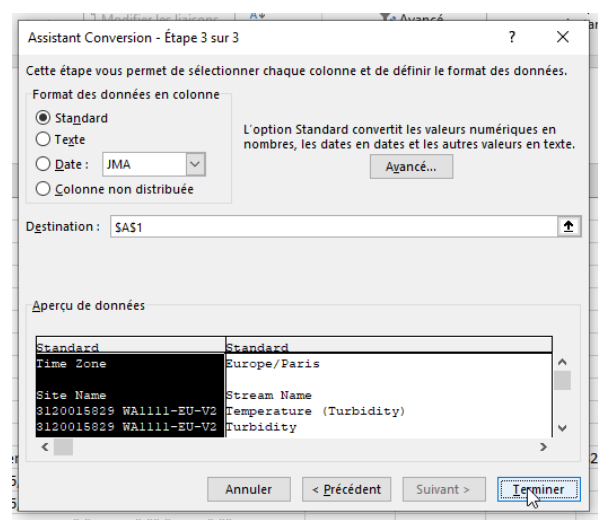


Open the downloaded .csv file. It should look like the screenshot below.

To convert this file and put the data into a column, select **column A**.

LOG-AQUA USER INTERFACE

In the next window, do not touch anything, just click **Finish**



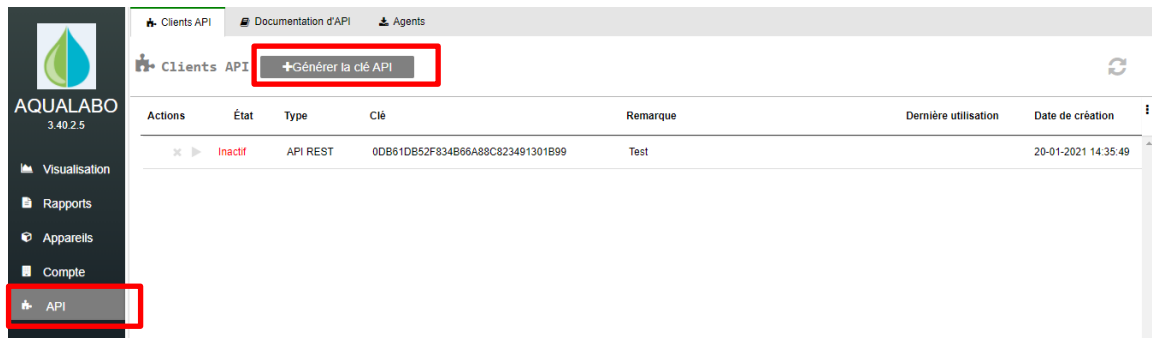
You then get a file that you can rework in **Excel** as desired, by saving it as an .xls or .xlsx file

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Time Zone	Europe/Paris											
2													
3	Site Name	Stream Name											
4	3120015829 WA1111-Temperature (Turbidity)												
5	3120015829 WA1111-Turbidity												
6	3120015829 WA1111-Conductivity												
7	3120015829 WA1111-Temperature (OPTOD)												
8	3120015829 WA1111-pH												
9	3120015829 WA1111-Dissolved Oxygen												
10	3120015829 WA1111-Temperature (pH/EH)												
11													
12	Datetime	Datetime(UTDate)	Time	3120015829 \ 3120015829 \ 3120015829 \ 3120015829 \ 3120015829 \ 3120015829 \ 3120015829 WA1111-EU-V2 / Temperature									
13	09/09/2020 05:59 2020-09-09 0	09/09/2020	05:59:39				6,161.400	22.081		4.003			
14	09/09/2020 09:38 2020-09-09 0	09/09/2020	09:38:24				6,212.900	21.552		3.923			
15	09/09/2020 09:46 2020-09-09 0	09/09/2020	09:46:24				6,207.200	21.525		3.901			
16	09/09/2020 09:50 2020-09-09 0	09/09/2020	09:50:03						7.133		2.145		
17	09/09/2020 09:50 2020-09-09 0	09/09/2020	09:50:25				0.161	21.109		9.836			
18	09/09/2020 09:54 2020-09-09 0	09/09/2020	09:54:03						7.032				
19	09/09/2020 09:54 2020-09-09 0	09/09/2020	09:54:25				365.800	20.989		9.420			
20	09/09/2020 13:59 2020-09-09 1	09/09/2020	13:59:58						6.902		-2.203		
21	09/09/2020 14:00 2020-09-09 1	09/09/2020	14:00:03	22.423	10.488	362.880	22.273			5.844			
22	09/09/2020 14:01 2020-09-09 1	09/09/2020	14:01:58						6.903		-2.206		
23	09/09/2020 14:02 2020-09-09 1	09/09/2020	14:02:03				364.580	22.278		7.226			
24	09/09/2020 14:04 2020-09-09 1	09/09/2020	14:04:03			12.479	365.820	22.302		7.618			
25	09/09/2020 14:18 2020-09-09 1	09/09/2020	14:18:20				366.070	22.495		8.141			
26	09/09/2020 14:25 2020-09-09 1	09/09/2020	14:25:41				366.350	22.580		8.198			
27	09/09/2020 14:37 2020-09-09 1	09/09/2020	14:37:41				366.150	22.745		8.185			
28	09/09/2020 14:49 2020-09-09 1	09/09/2020	14:49:41				365.900	22.912		8.195			
29	09/09/2020 15:25 2020-09-09 1	09/09/2020	15:25:41					23.404		8.409			
30	09/09/2020 15:29 2020-09-09 1	09/09/2020	15:29:41				363.690	23.483		8.418			
31	09/09/2020 15:31 2020-09-09 1	09/09/2020	15:31:41					23.512		9.485			
32	09/09/2020 15:32 2020-09-09 1	09/09/2020	15:32:43						6.888				
33	09/09/2020 15:32 2020-09-09 1	09/09/2020	15:32:51				366.900	23.538		9.645			
34	09/09/2020 15:56 2020-09-09 1	09/09/2020	15:56:04						6.888		2.386		

LOG-AQUA USER INTERFACE

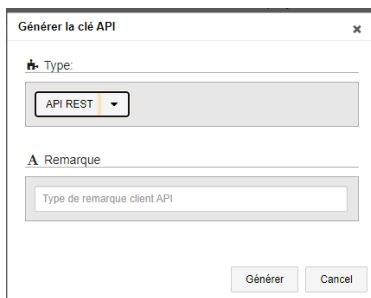
9. Generating an API Key – Link to SCADA system

Click the **API Menu** → Generate the API key



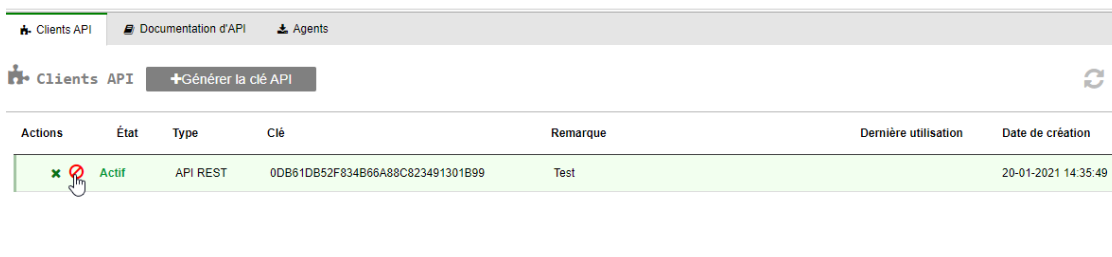
The following window will appear. It is used to generate a secret key that you can enter into your SCADA system (the system uses standard SCADA protocols DNP3 or OPC-UA). You can add a note to it if necessary.

Important: Keep the key and secret in a safe place. After closing the window, you will not be able to recover the secret.



The API key will appear in the interface, which is valid for all loggers in your account.

You can deactivate it at any time by clicking the red button



You can also download a **csv agent**



LOG-AQUA USER INTERFACE

10. Digital sensors calibration

The calibration of PONSEL digital sensors is carried out via a **4200 Module** and the **CALSENS software**.
It is not possible to do the calibration with an ODEON portable device.

Physically connect your probes to the 4200 module via the connecting cable supplied.
Connect the module to your PC using the USB cable.



Start the calibration procedure on CALSENS and using the digital sensor user manuals via the “calibration” chapter (user manuals available on our website www.aqualabo.fr).

Remarks

- **The middle age of the digital sensors must be 1** (to be notified at the end of the calibration).
- In the event of **several OPTOD sensors** connected to the same LOG-AQUA, set the middle age 1 for the sensors and check that the **SDI-12 addresses** are indeed 1 (for sensor 1), 2 (for sensor 2) and 3 (for sensor 3 if there is a third of the same type).
- If a **STACSENSE** sensor is connected, you can check that **the Modbus address is indeed 70**.

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