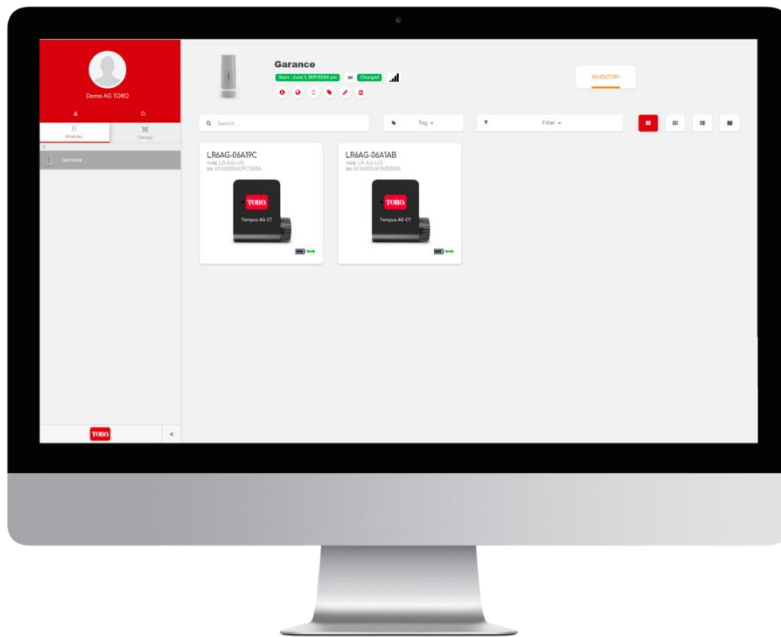




MYTOROTEMPUSAG.com

USER MANUAL

2021



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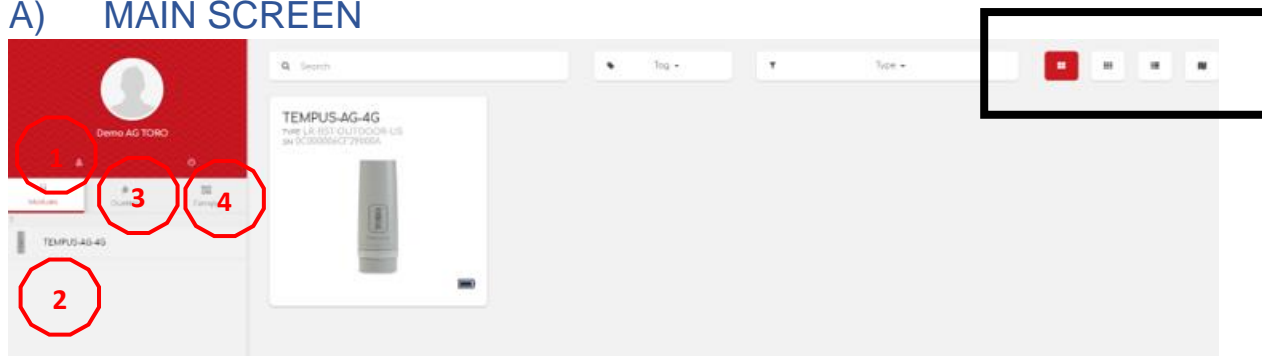
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I – INTRODUCTION TO THE PLATFORM

In order to access MyToroTempusAg platform, go to <https://mytorotempusag.com/>

The platform will allow to manage user account (personal information, password, the way they want to receive alerts, etc...) but it will also enable users to manage their devices, once paired via the app. The platform also offers the possibility to manage clusters and Canopy function, which are only available on this tool. All functionalities of the platform will be detailed in this user manual in order to optimize devices use.

A) MAIN SCREEN

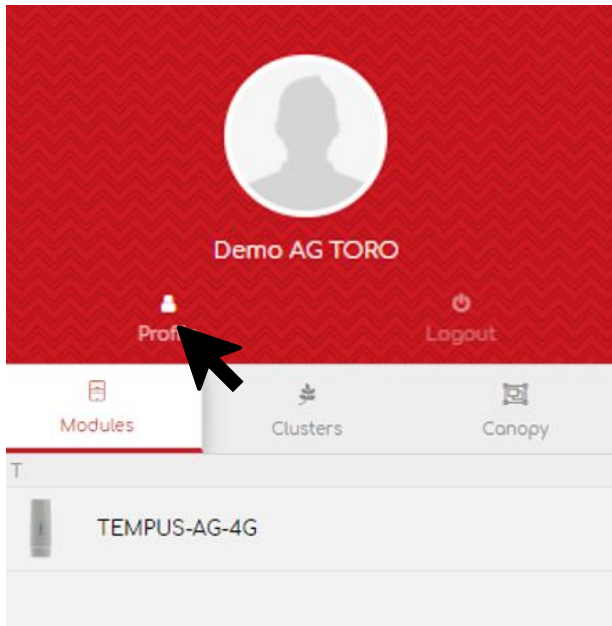


The main screen will be displayed as the screenshot above. You will be able to find all main options available on this screen:

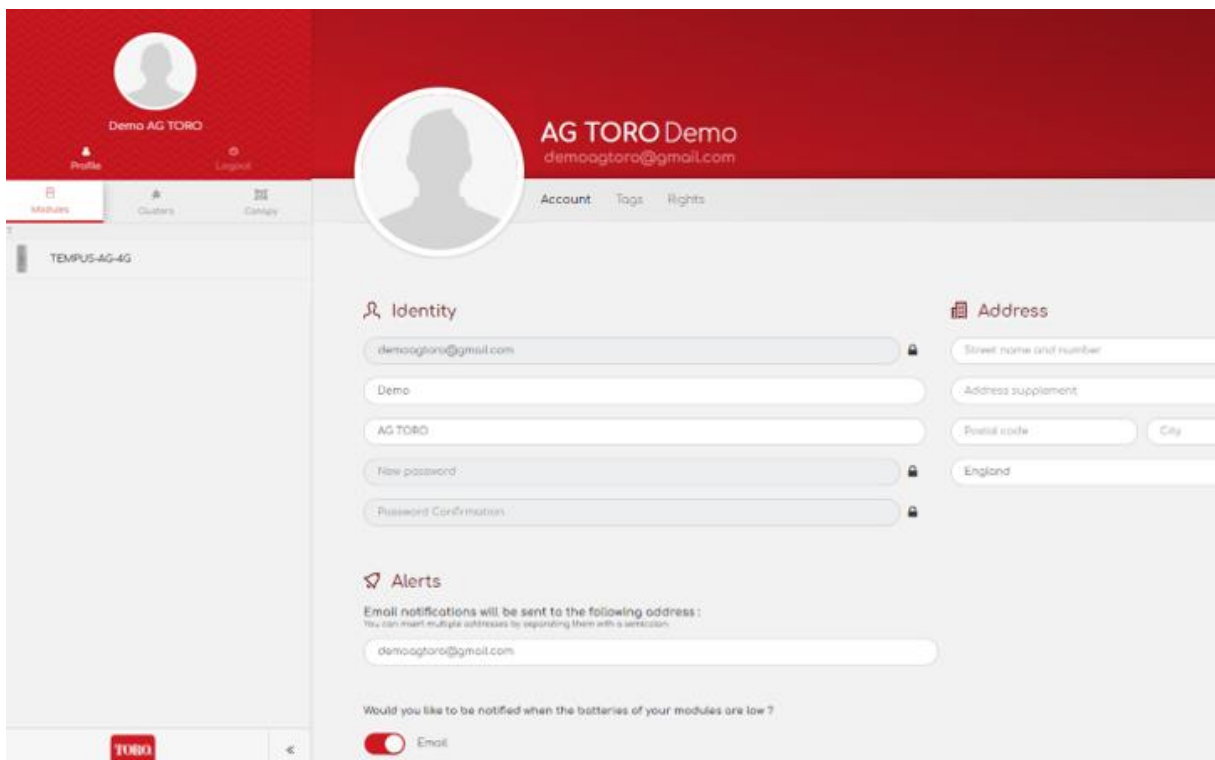
- 1) User account profile
- 2) List of devices
- 3) Cluster function
- 4) Canopy function

Thanks to the options on top right of the screen, you will be able to change the view of your devices in the platform (large, small, list or map view).

B) USER ACCOUNT

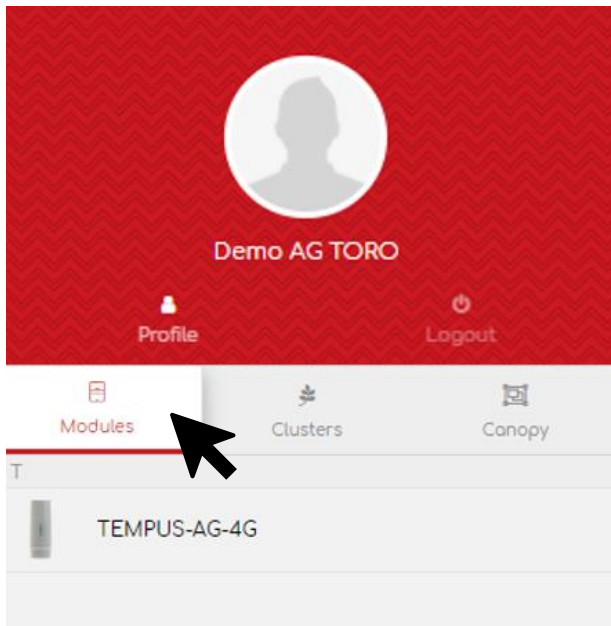


To access your user account, click on “Profile”.

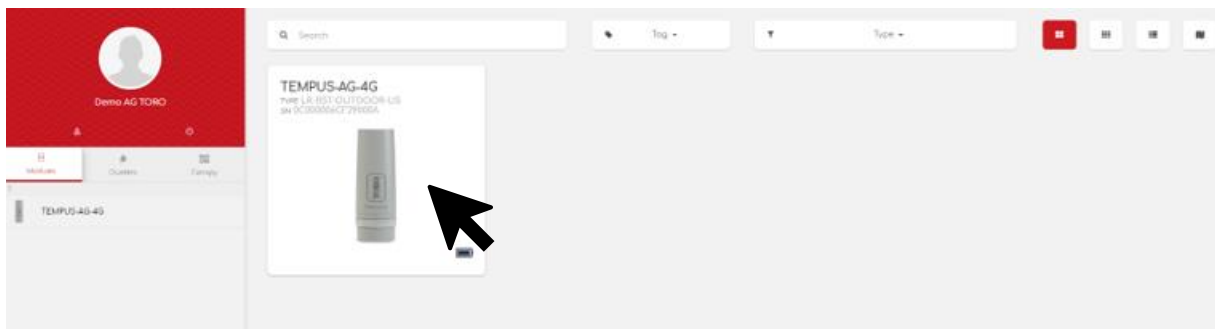


Then, you will access all your personal data on the new screen. This part will be detailed in Part III.B of this user manual.

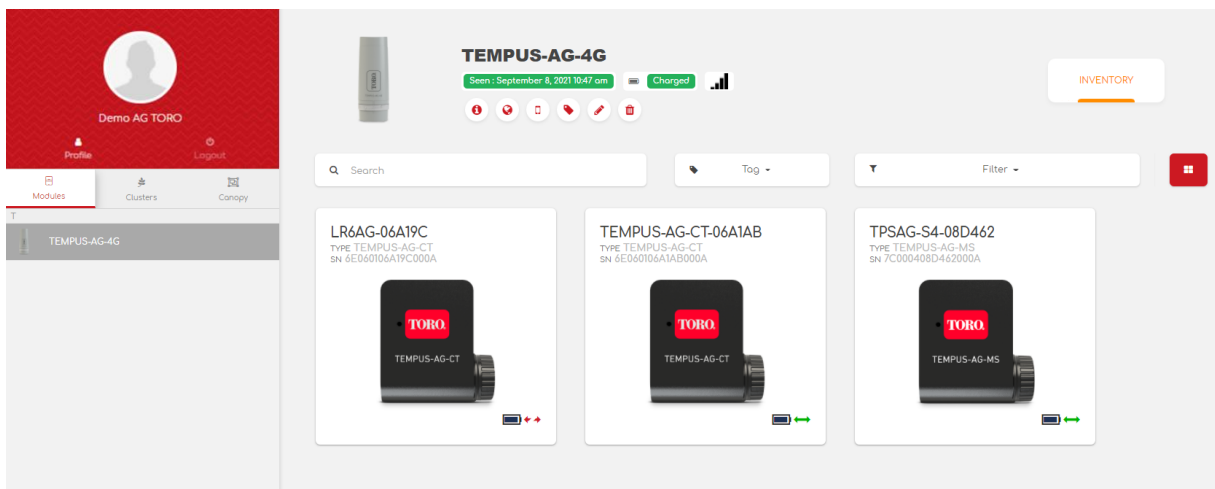
C) DEVICES



To access your devices, click on “Modules” option.

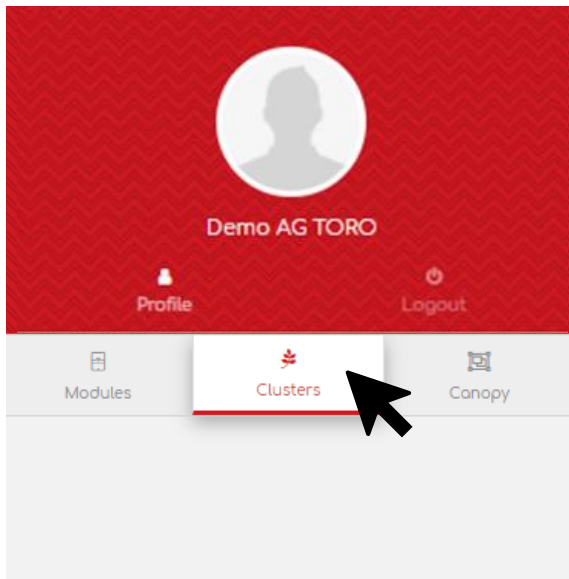


Once in the main device' screen, when you select your gateway, you access all your available devices.

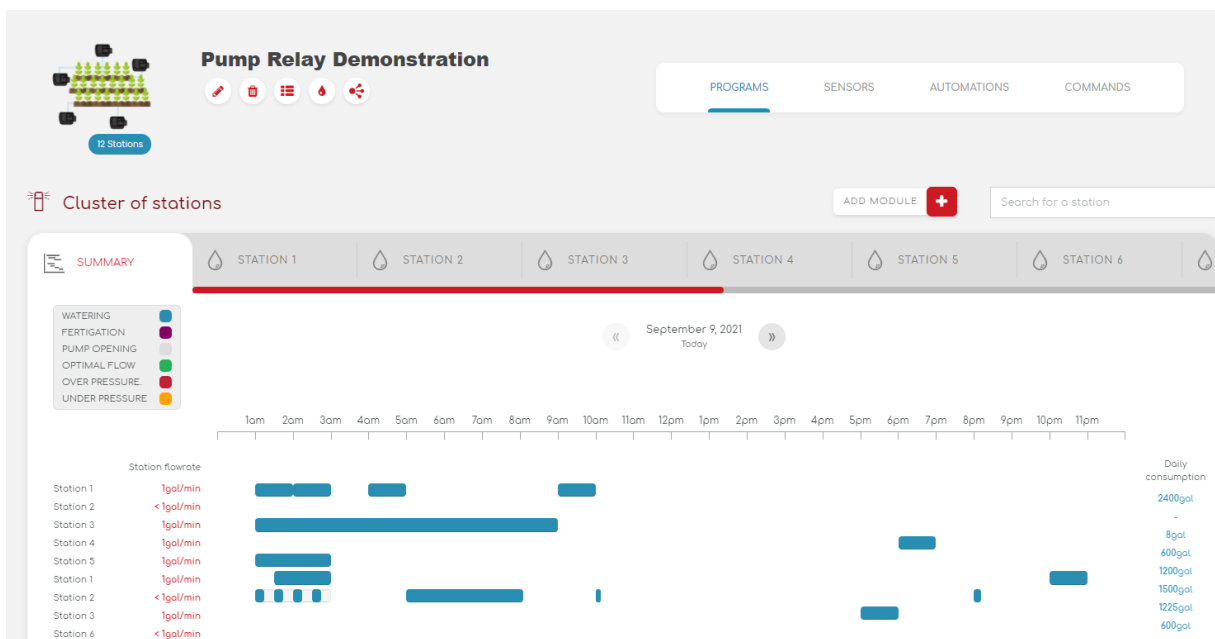


You can now see all devices paired to your gateway. The part IV of this user manual will guide you in the programming and visualization of your devices.

D) CLUSTER

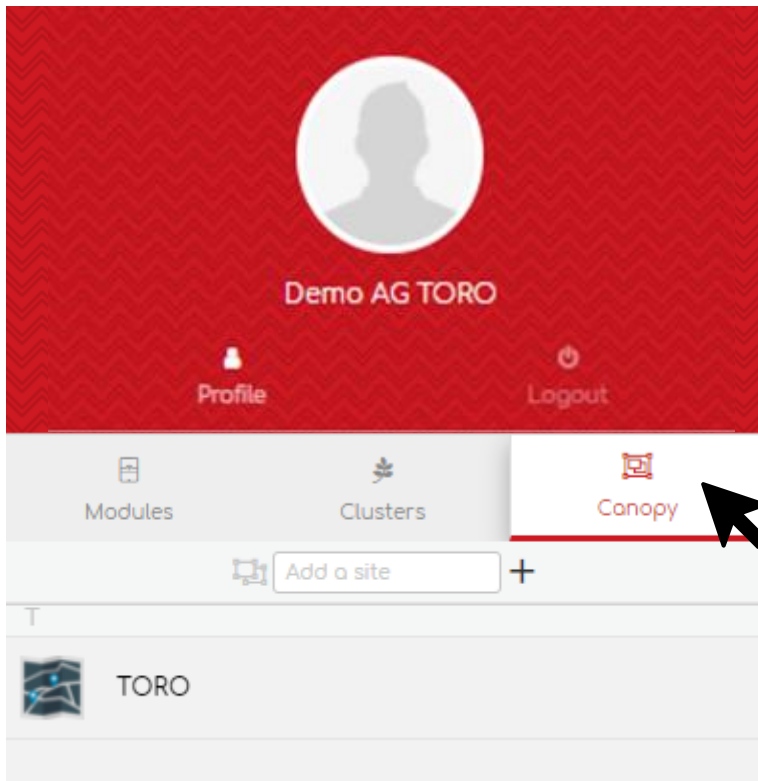


On the main screen, click on “Clusters”.

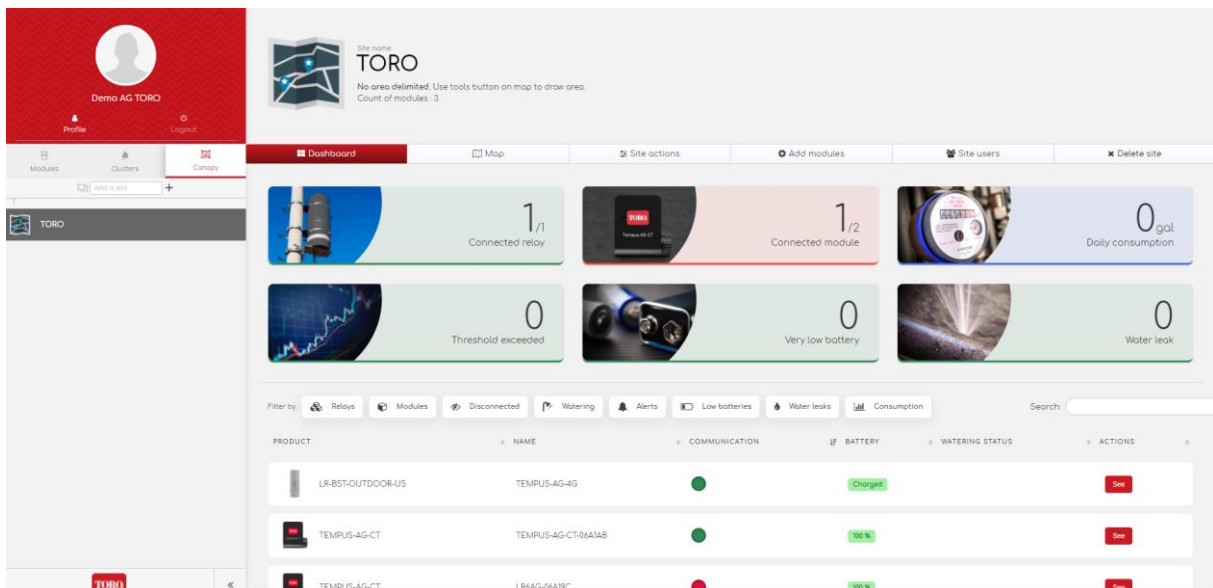


You will now be able to create your cluster by adding your devices. This subject will be detailed in part IV of this user manual.

E) CANOPY

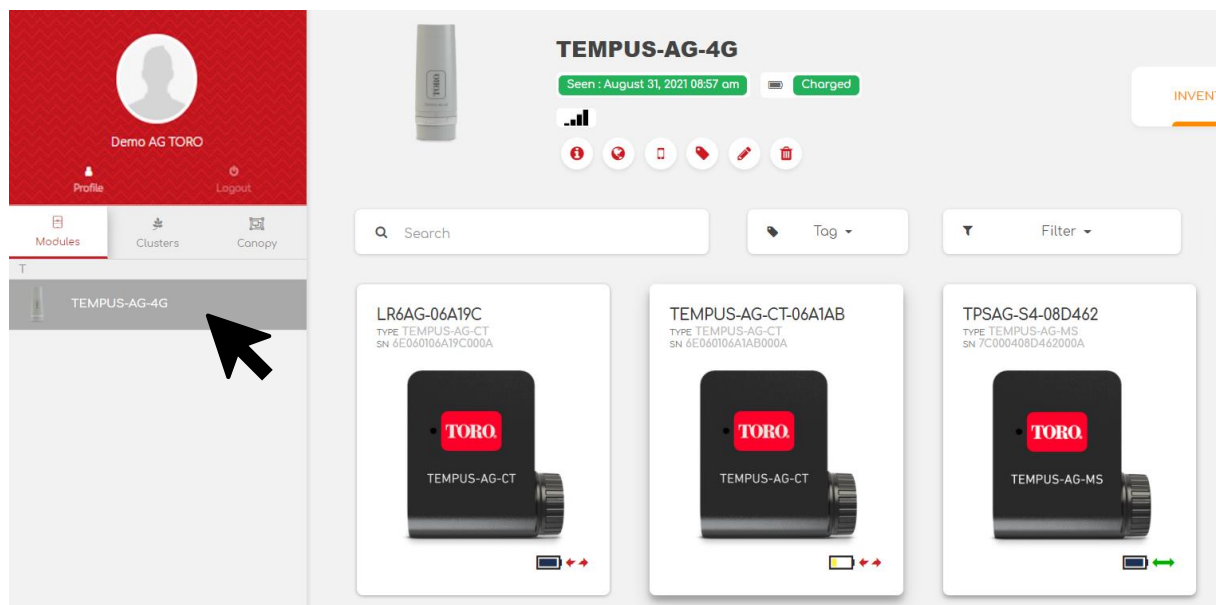


Click on “CANOPY”.



You now access the main screen of CANOPY with its dashboard. This function will be detailed in part VII of this user manual.

II – PRESENTATION OF MYTORO TEMPUS DEVICES



Regarding MyTOROTEMPUS devices available, you can find all our products listed below:

TEMPUS AG-CT: 9V battery operated device working with Bluetooth and LoRa technology. It will allow you to manage up to 6 solenoid valves and to create different programming: cyclical irrigation, irrigation by volume or by rainfall, which will be detailed in part II.B.1 of this user manual.

TEMPUS AG-MS: 9V multi-sensor device working with Bluetooth and LoRa technology with which you can connect either 1 or 4 sensors (Among: anemometer, flowmeter, pluviometer, temperature, moisture, air humidity and rain sensors). This device will be detailed in part III of this user manual.

TEMPUS AG-PR: 9V Pressure monitoring device working with Bluetooth and LoRa technology. This device will allow you to visualize and check the pressure of your irrigation so you will be able to conduct necessary actions in case of anomaly.

TEMPUS AG-MV: 9V Main Valve device working with Bluetooth and LoRa technology. This device will allow you to visualize and manage all your LoRa devices' flow rate thanks to the synchronization of the pipes' openings.

TEMPUS-AG-4G: 3G/4G Base Station working with Bluetooth and LoRa technology. This base station will collect available information on MyTOROTEMPUSAG server thanks to the 3G/4G connectivity. Then, it will be able to communicate thanks to the LoRa radio communication technology with compatibles devices, up to 800m. This device can be fully autonomous thanks to a solar panel and can be positioned in the middle of a field, for example.

TEMPUS AG-WF: Wi-Fi Base Station working with Bluetooth and Wi-Fi connectivity. This gateway will collect available information on MyTOROTEMPUSAG server thanks to the domestic Wi-Fi connectivity. Then, it will be able to communicate thanks to the LoRa radio communication technology with compatibles devices, up to 800m. This gateway needs to be plugged in order to be powered.

III – MANAGE YOUR ACCOUNT

A) CREATE YOUR ACCOUNT

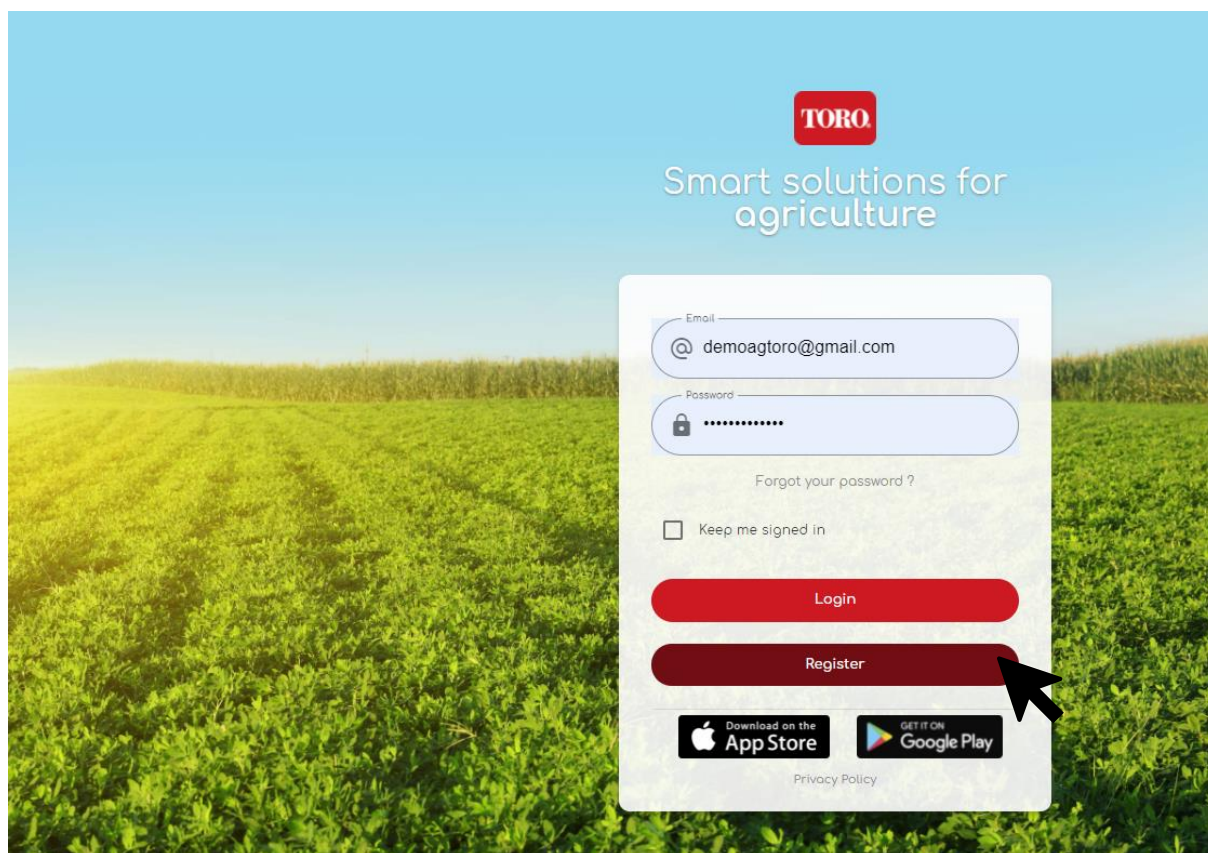
Your MyTOROTEMPUS account will allow you to:

Automatically save your devices with their associated programs, in the app and the platform which guarantee you to always have access to your data in case of problem with your phone (loss, robbery, crash, etc...).

The possibility to delegate the programming management to someone you trust.

For professionals, you will be able to extend your services by offering a site management contract.

The possibility to activate the anti-theft function when you associate your device via the app, in Bluetooth.



Enter your credentials or select “Register” if your account is not created yet.

If you already have an account but you forgot your password, you can select “Forgot your password?”, in grey. You will receive a password reset email in your mailbox, this can take few minutes.

Email

@ demoagtoro@gmail.com

Firstname


Name

Address

Postal code

City


Please enter a strong security password:

security: STRONG 


Password

••••••••

Password Confirmation

I'm not a robot 
reCAPTCHA
Privacy · Terms

Register

Cancel 

[Privacy Policy](#)

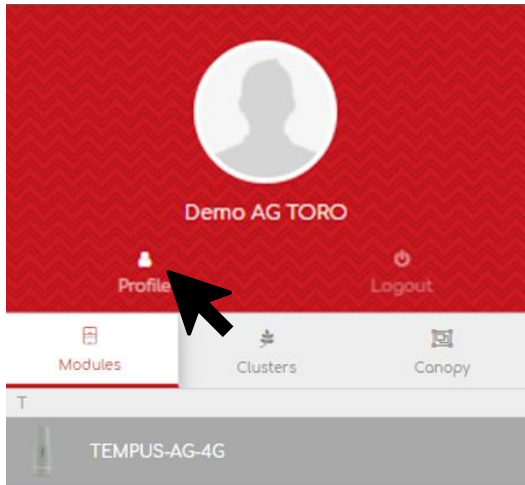
When you have selected “Register”, you will reach this screen and it is now possible for you to fill in all your personal information and register.

In order to create a strong and correct password, you need:

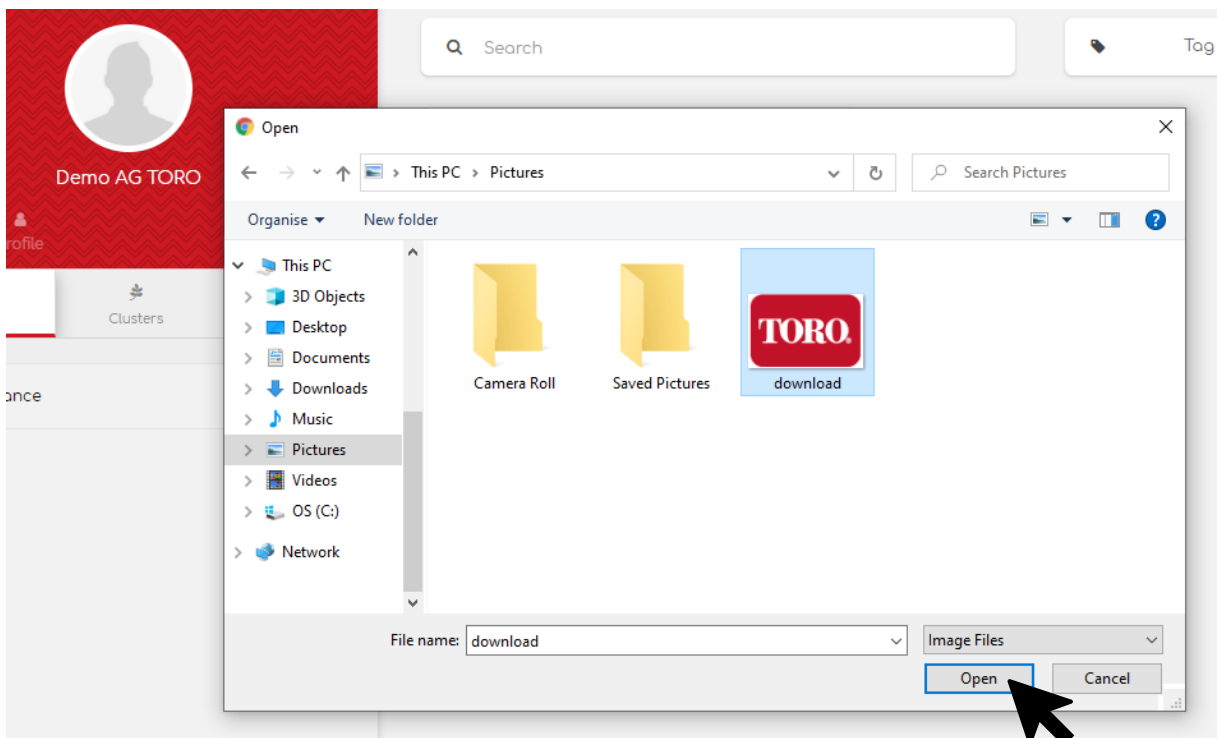
- Minimum of 8 characters length
- At least one digit (0-9)
- At least one uppercase letter (A-Z)
- At least one special character (@, #, %, & !, \$, etc...).

B) CHANGE YOUR INFORMATION

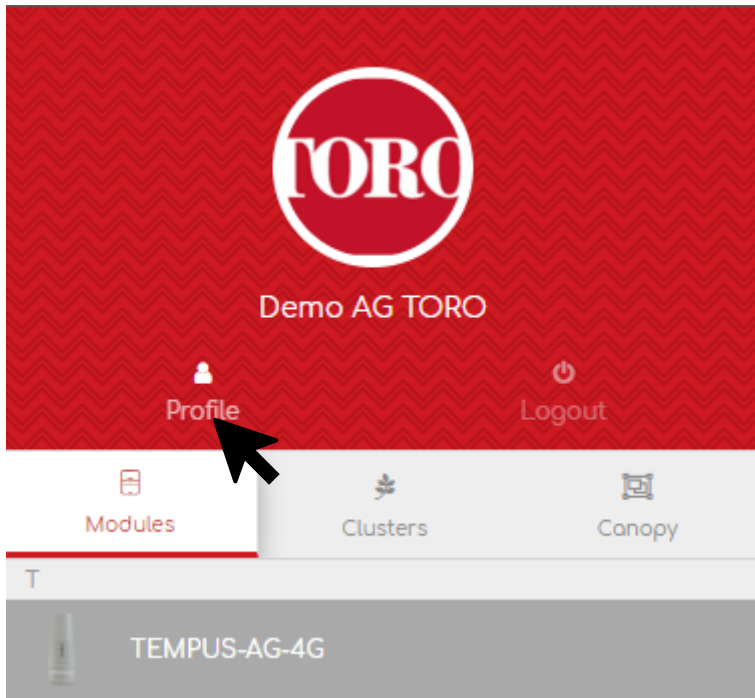
1) THE PROFILE PICTURE



Once connected to the platform, you can first see the profile picture. It is possible for you to change your picture with a document from your computer. To do so, click on the picture and you will be redirected to your file explorer so you can choose the new picture.



Select the picture and "Open".



Your profile picture is now changed.

Select "Profile" if you want to check your personal data.

2) PERSONAL INFORMATION AND PASSWORD MANAGEMENT

On this page you can change your personal data such as: your email address, your First and Last name, your address and your password on the corresponding areas.

If you want to change your password, click on the locker in order to open it and to be able to write a new password.

New password 


Password Confirmation 

Now the locker is open, enter a new password and make sure you write exactly the same in the “Password confirmation” area.



Then, once your modifications are done, select “Save” option in order to register them.

3) SETTINGS DEFINITION

 Alerts


Email notifications will be sent to the following address :
You can insert multiple addresses by separating them with a semicolon.

demoagtoro@gmail.com


Would you like to be notified when the batteries of your modules are low ?

Email

Notification

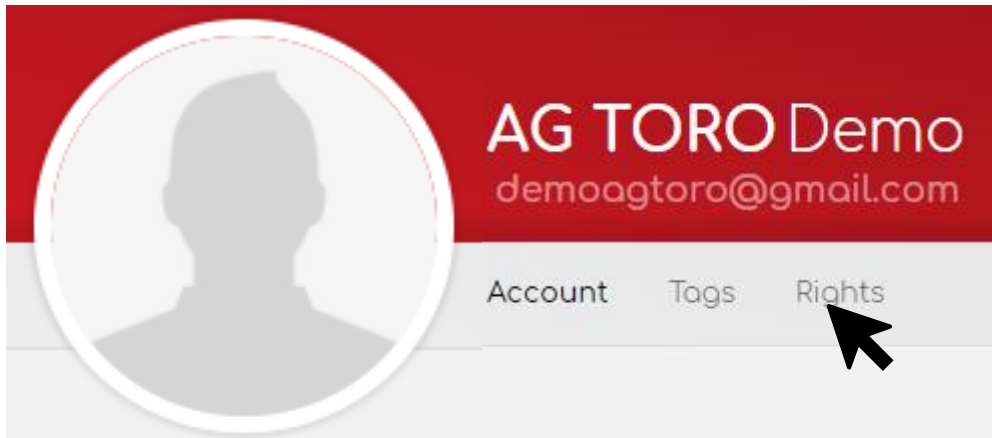
 Units

Volume	Temperature
Auto	Auto
Pressure	Speed
Auto	Auto
Rainfall	Time system
Auto	Auto

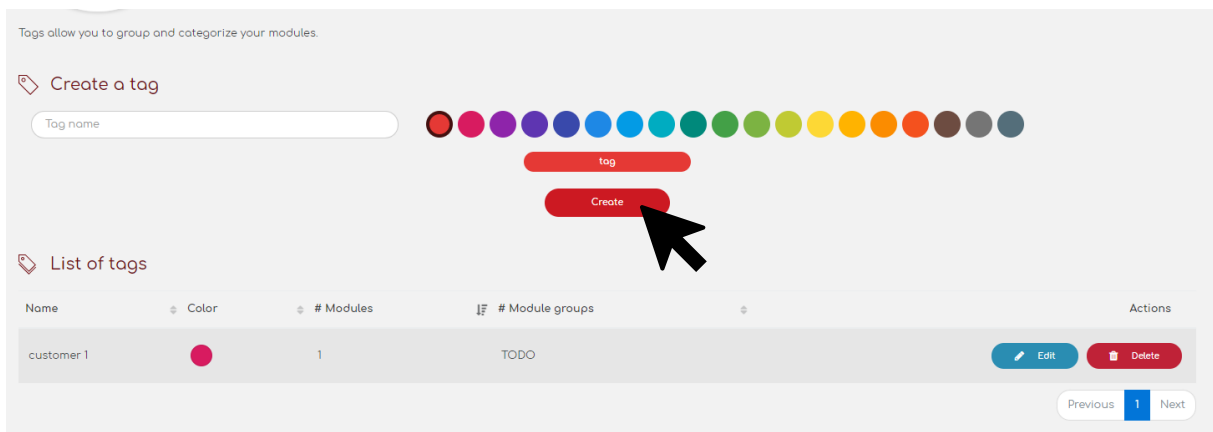
Save 

Still on your profile page, you can choose the email address on which you want to receive alerts notification, the way you want to be notified regarding your device’s battery (Per email and / or per notification on your tablet / smartphone) and also select the units you want to be applied. Otherwise, it will be applied automatically.

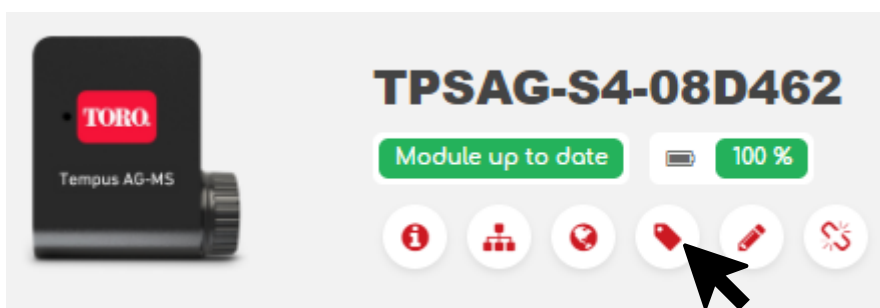
4) TAGS CREATION



On the “Profile” page, you can also access “Tags”. This functionality allows you to create notes in order to categorize your devices.



Enter the name you want to attribute to your device, the color associated and select “Create”. You can create as much tags as you want, even from the same color. You will see the tags created on the table below your screen named “List of tags”. There is the possibility to edit or delete them.



To attribute them to your device, select the tag logo as shown in the example above.

Add or delete tags



customer 1 x Tags

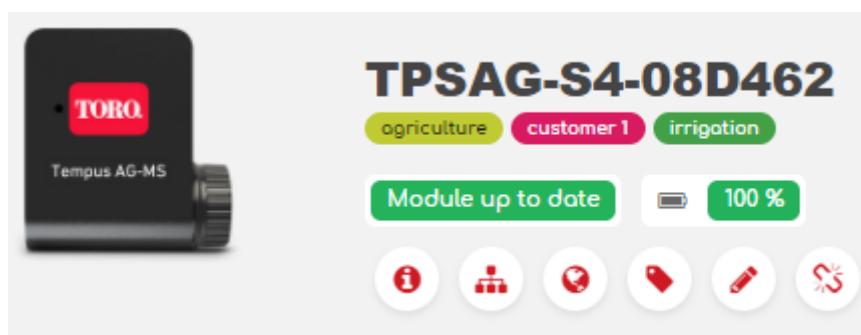
List of tags



Add, edit or delete tags directly in your [profile](#)

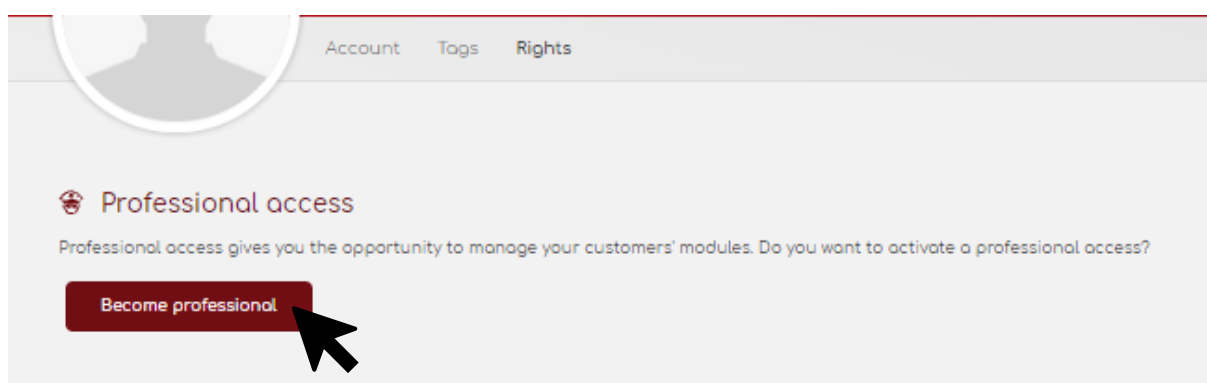


Now select which of your tag(s) you want to apply and save your choice.



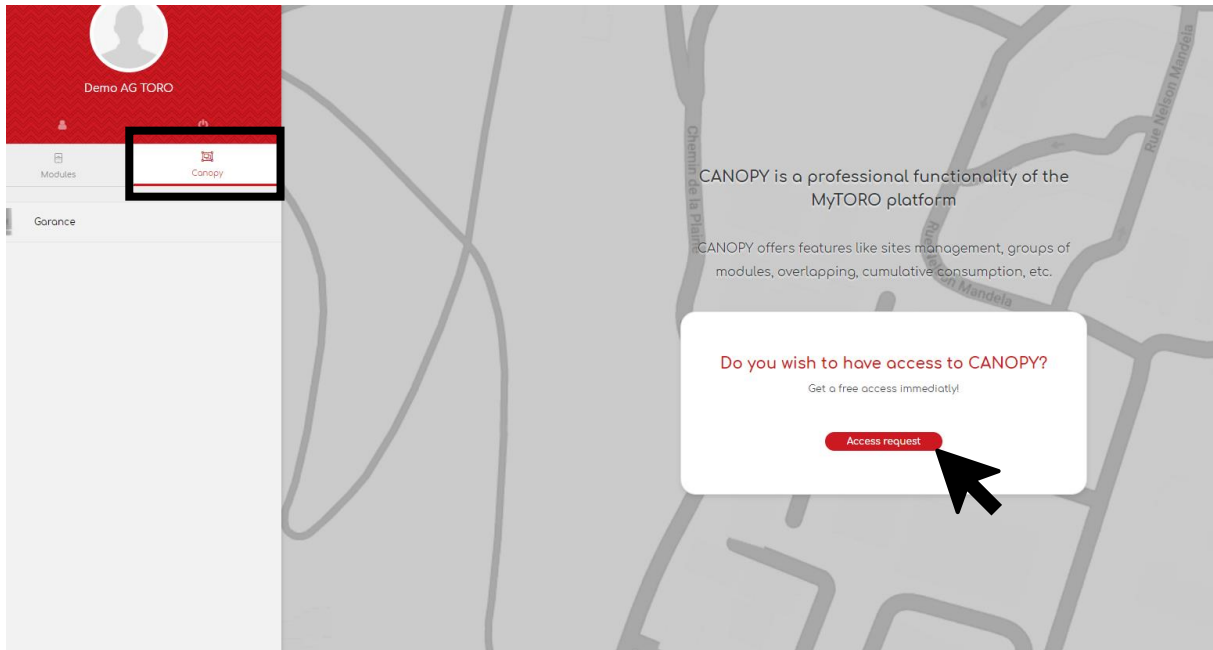
Your tag(s) will appear in bold below the default name of your product.

5) PROFESSIONAL ACCESS REQUEST



On this page you can check the given rights to your account and you can ask for professional access. This option is dedicated to professionals only as your VAT (DUNS) number will be requested. This will allow you to manage users account and share with them the access to the devices. Please refer to part VIII of this user manual regarding the professional functionality.

6) CANOPY ACCESS REQUEST



You can request the CANOPY function on this screen. Once your request has been sent, you will receive within 24hours an email in order to check if you are a professional.

How to manage CANOPY feature will be detailed in Chapter VII of this user manual.

IV - MANAGE YOUR IRRIGATION DEVICE

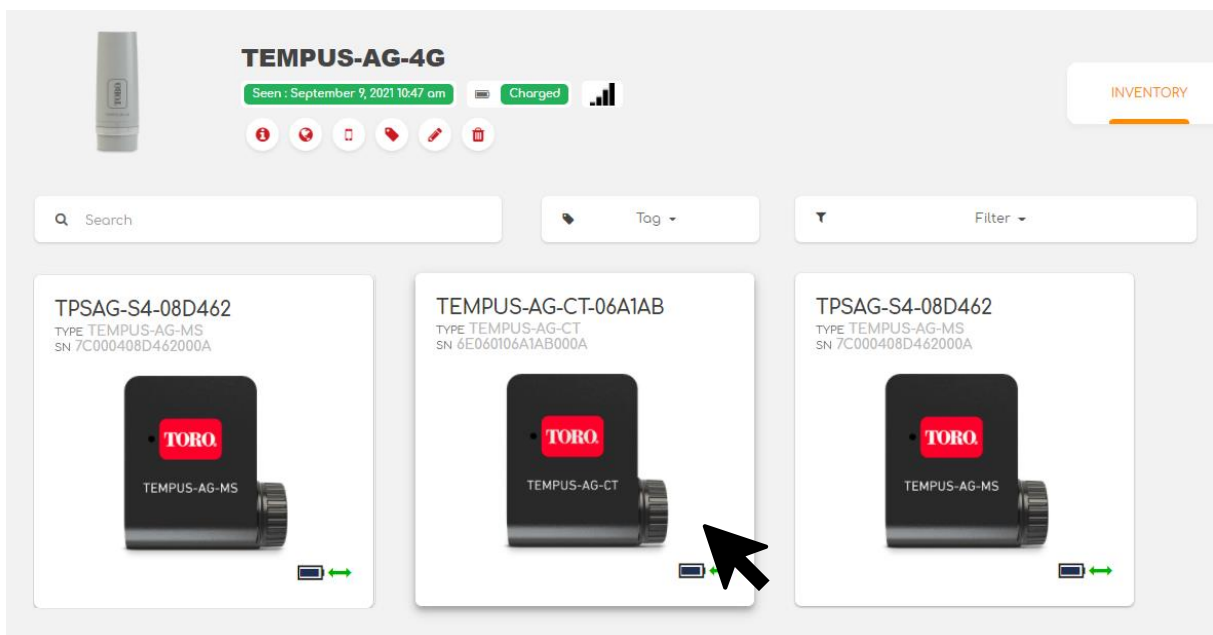
Follow the procedure from II.A of the app user manual in order to associate in Bluetooth your gateway TEMPUS AG-WF / TEMPUS AG 4G and your LoRa devices (Described in part II of this user manual):

TEMPUS AG-CT

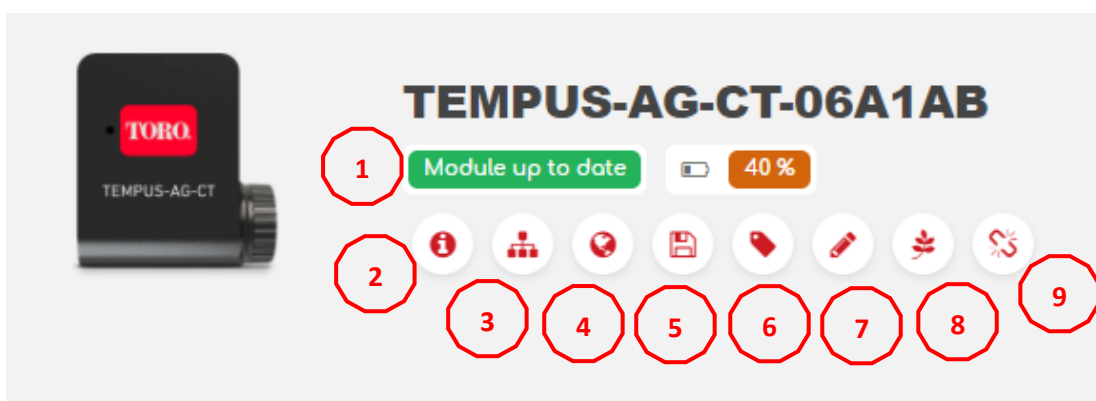
TEMPUS AG-MS

TEMPUS AG-PR

TEMPUS AG-MV

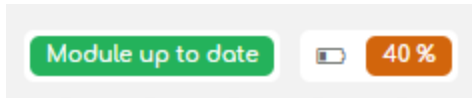


When you access your devices, select the one you want to modify.



When you click on a device, you will first see its default name, on top of the screen with different options below.

1)



You will have the information about the device status and about its battery level.

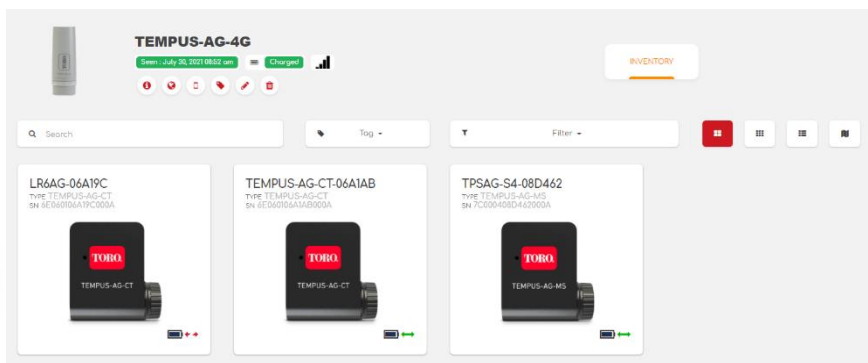
2)



TYPE TEMPUS-AG-CT
SN 6E060106A1AB000A

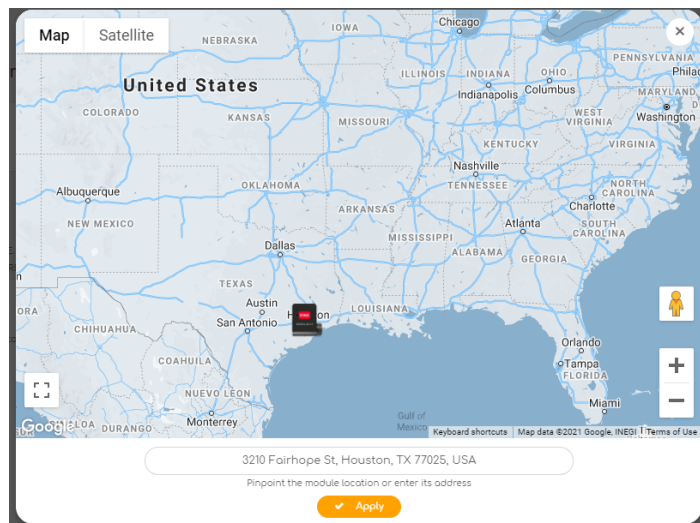
The logo of Information will provide your device SN number, which is its unique identification number.

3)



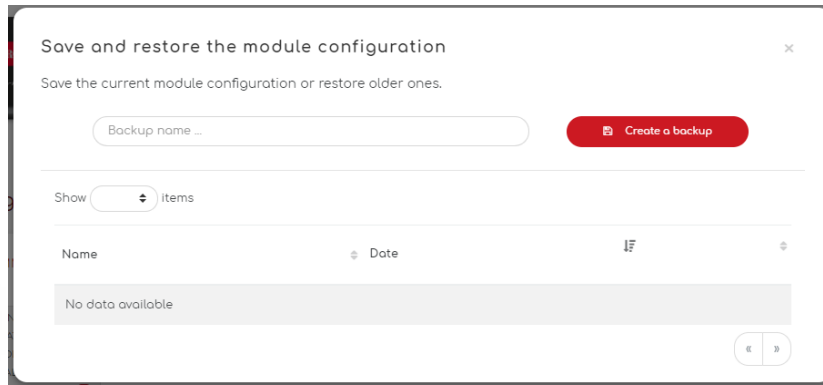
The organizational chart logo allows to directly access the gateway and see the other devices.

4)



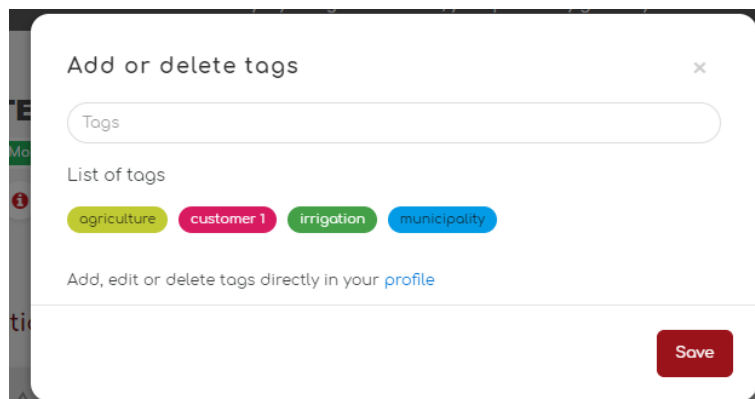
The planet logo allows you to locate your device.

5)



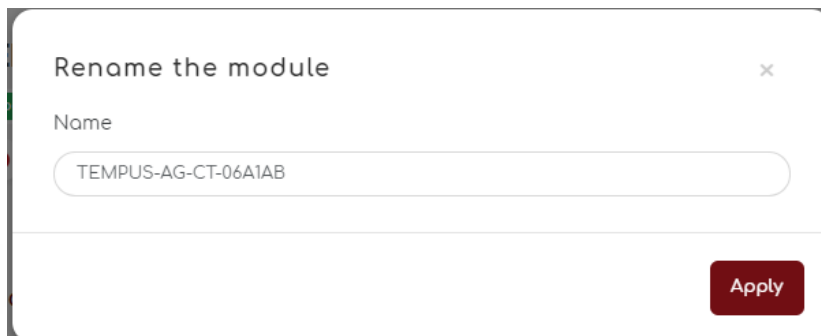
The floppy disk logo offers the possibility to save or restore your device configuration and programming.

6)



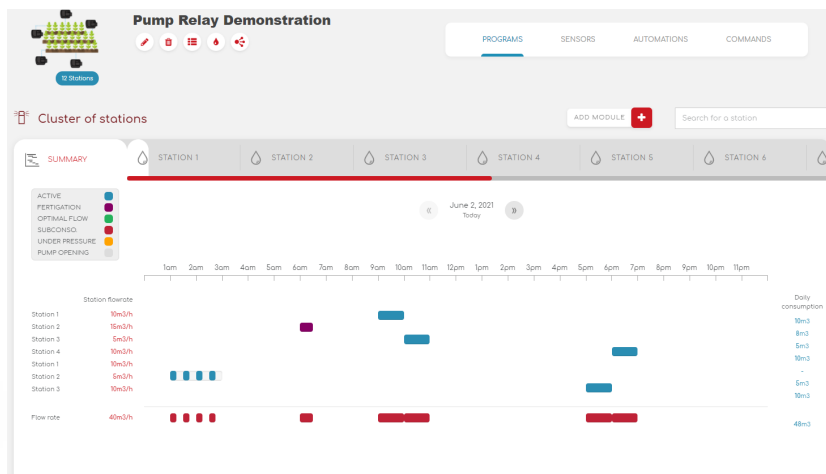
When you select the tag logo, you will find the screen above which will suggest you to select a tag you created in part III.B.4 of this user manual, in order to identify your product.

7)



With the pen logo you can give a name to your device.

8)



The cluster logo will appear only if your device has been associated to a cluster on a first hand.

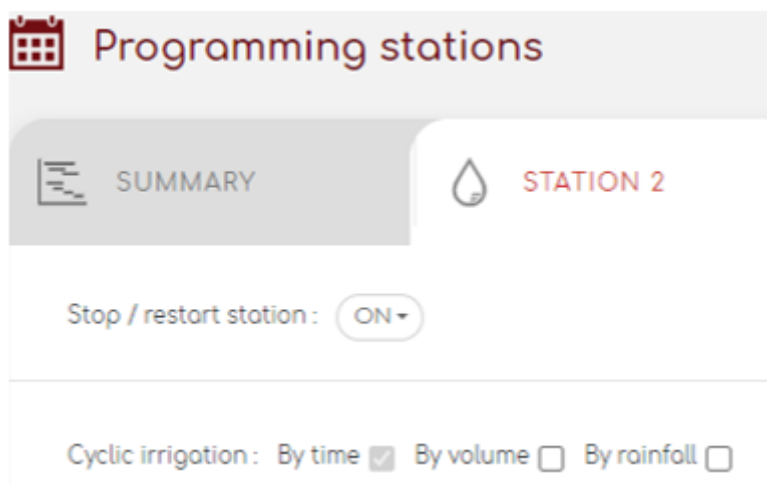
9)



This logo of dissociation will appear only if your controller has been associated to a gateway.

A) PROGRAMMING

Regarding your stations programming, you can select for each station, 4 watering windows maximum and the kind of program you need: By time, by volume or by rainfall.



Select the cyclic irrigation you want to use:

By time § 1

By volume § 2

By rainfall § 3

1) IRRIGATION BY TIME

1) When you have selected the irrigation by time for your station, you have 5 possibilities regarding the calendar:


- Custom if you want to select specific days.
- Even days (the 2nd, the 4th, the 6th...).
- Odd days (the 1st, the 3rd, the 5th...).
- Odd days minus 31. You can have a month finishing by the 31st so with this function, it will not irrigate 2 days in a row (Only the 1st of the next month will irrigate).
- Interval (examples):
 - Every day.
 - Every 2 days
 - Every 3 days.
 - Up to every 31 days

2) If you want to connect a fertigation to your station, you can select the option:

Fertigation station:

In the device programming summary, your fertigation station will appear in purple.

3) If you are aware of your station flowrate, you can directly enter it in the dedicated space. Otherwise, you can use the calculation tool as per the example below:

Station flowrate: m³/h ▾ 
calculation tool

Station flow calculation tool ×

This tool allows you to calculate the overall flow of your station using the flow parameters of the distributors, the mesh size and the area covered. Please note, this is a theoretical calculation tool. Do not forget that the flow rate of the dispensers can vary over time.

Rows spacing m ▾ Distributors gap m ▾
Distributor flowrate L/h ▾ Area m² ▾

Station flowrate

50 m³/h

Apply to station settings

The different parameters you will enter in the calculation tool will define your station flowrate.

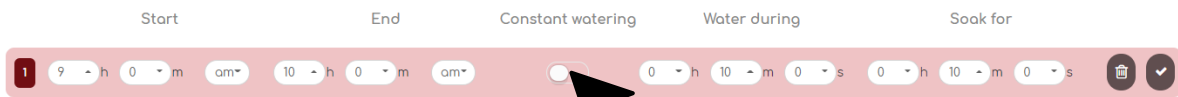
4) When you have clicked on “Add a watering window” you can now define your starting and ending time and if it is supposed to be a constant watering or not.

a) Constant watering:

Start End Constant watering Water during Soak for

This will irrigate continuously during the watering windows defined (start and end).

b) Cycle and soak watering:

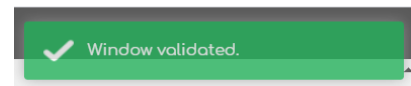


During the watering windows from 9am to 10am, this will irrigate 10min and soak for 10 min.

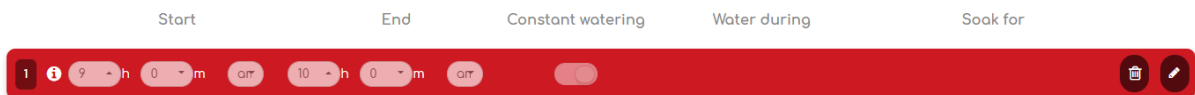
Confirm your window so it can be registered:



You will see the following confirmation message:



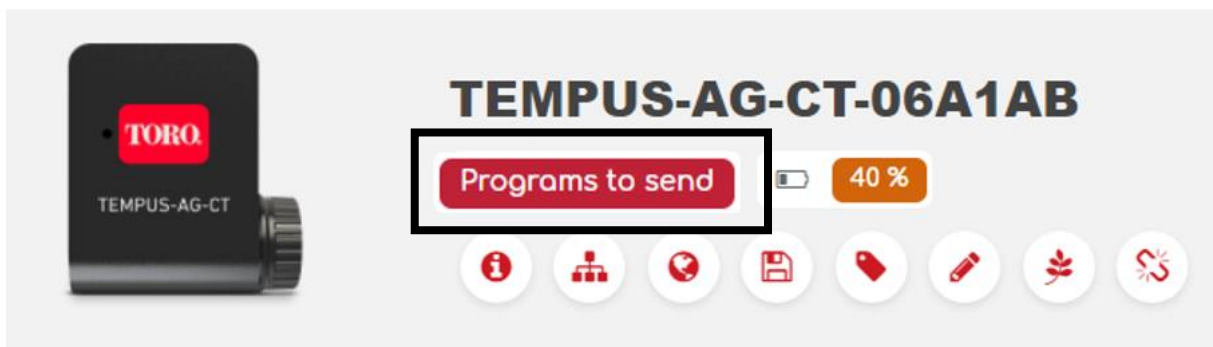
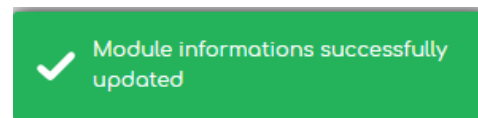
The watering window validated will now appear in red:



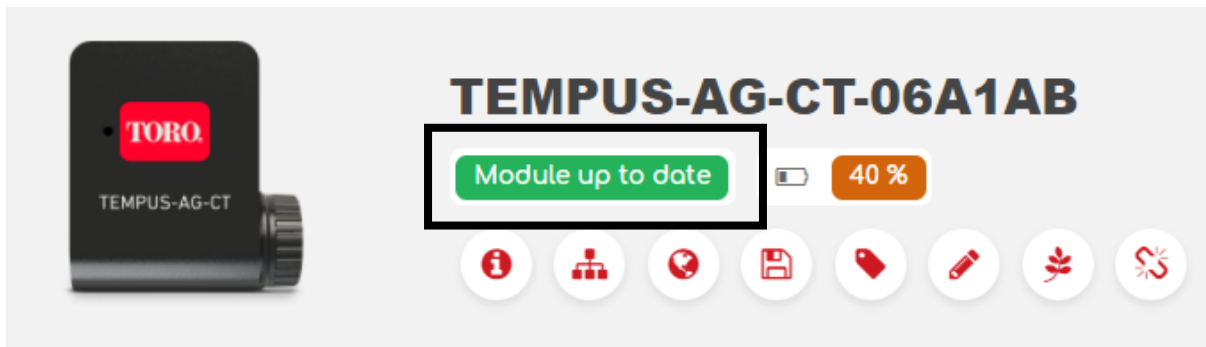
Once you have validated your windows, you can send the program to your device. If your device is associated to a gateway, this will be updated at the next synchronization.



Once the program is sent, you will receive the following notification on top right of your screen:



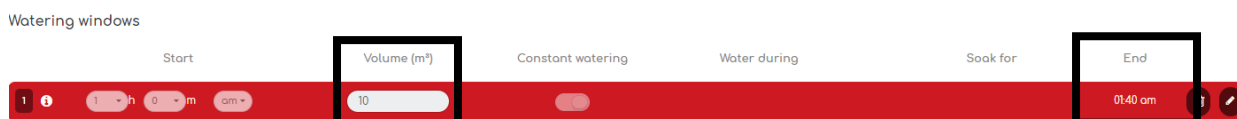
Until the synchronization succeeded, you will see the notification "programs to send" in red.



Once the synchronization has been done, the notification “Programs to send” will be replaced by “Module up to date” in green.

2) IRRIGATION BY VOLUME

NB: As described in the irrigation by time programming paragraph, do not forget to set up all the standard settings (calendar, fertigation, flowrate...).



Regarding the irrigation by volume, you will need to define the amount of water you want to apply on your parcel. Then, based on the starting time, the station flowrate and the volume registered, the system will automatically calculate the end time.

3) IRRIGATION BY RAINFALL

NB: As described in the irrigation by time programming paragraph, do not forget to set up all the standard settings (calendar, fertigation, flowrate...).

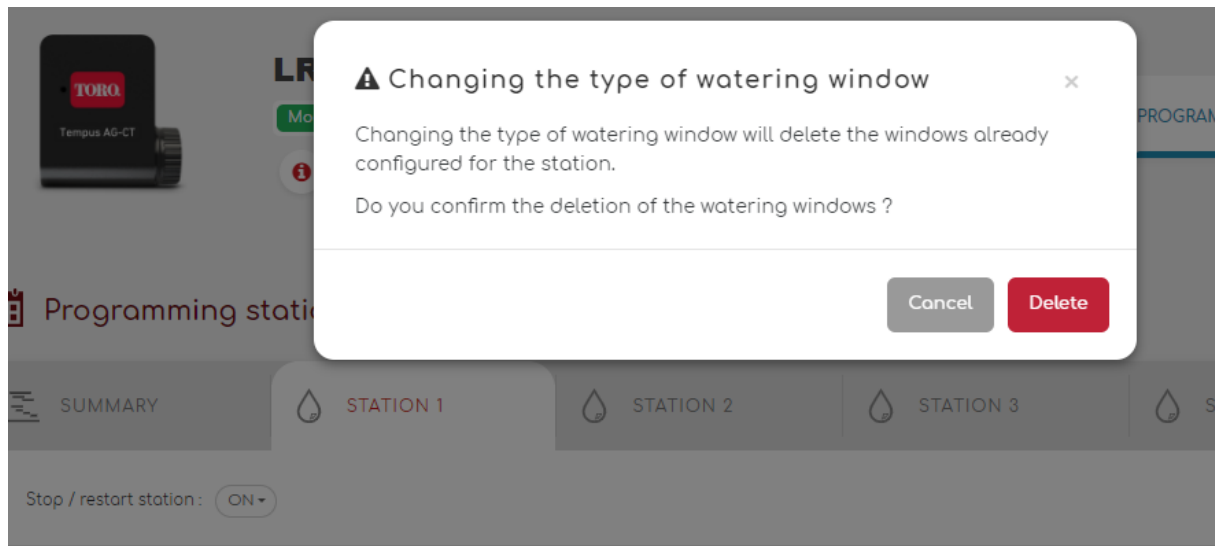
Register the surface of your parcel in the dedicated area.



Regarding the irrigation by rainfall, you will need to register your station flowrate, the surface of your parcel and the amount in mm you want to irrigate. The system will automatically calculate the end time.

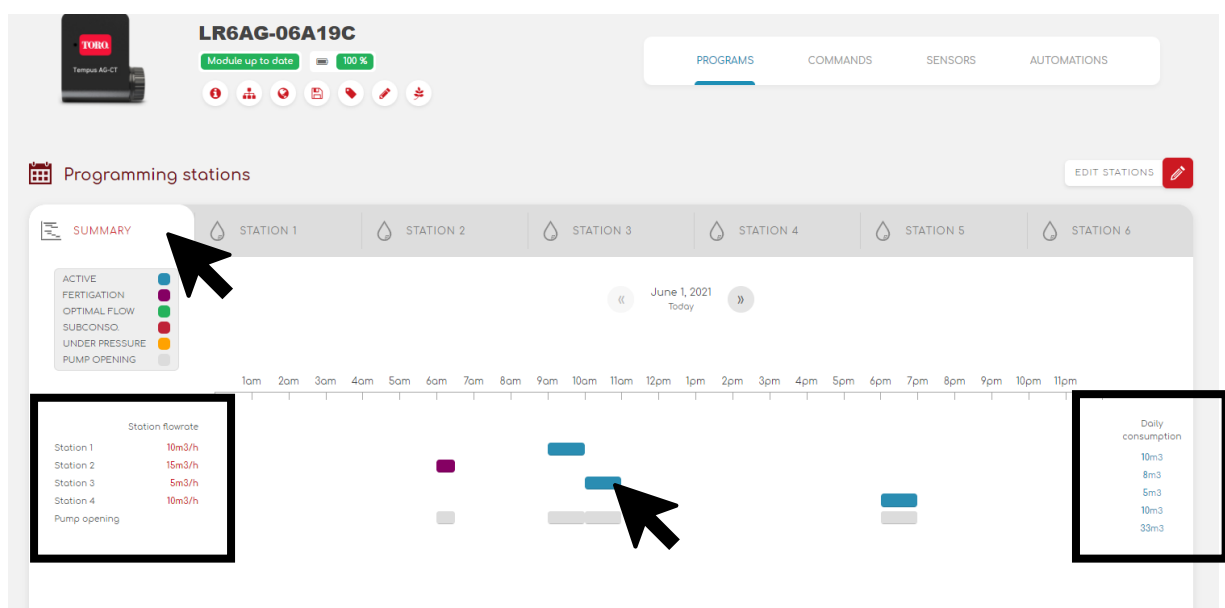
4) WARNING!

Each time you want to modify your cyclic irrigation mode (by time, by volume and by rainfall), on a specific station, you will have the following message:



This means the watering window will be erased.

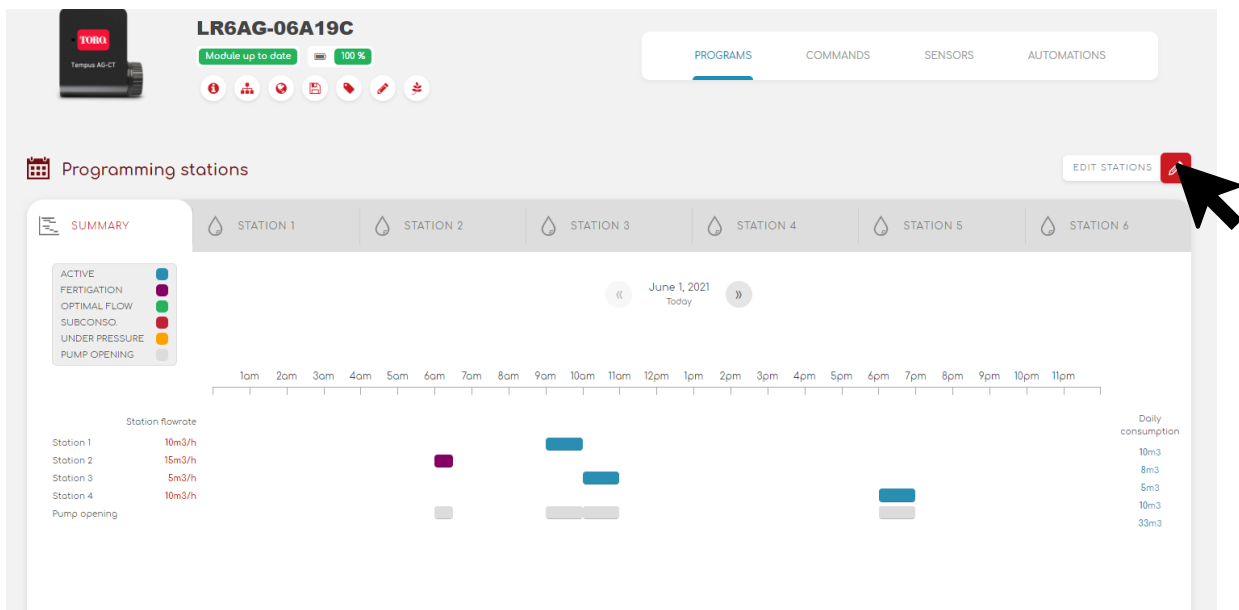
B) VISUALIZATION AND MODIFICATION OF YOUR PROGRAMS



On the left side of the bar graph, you will find back theoretical flowrate of each station and on the right side, the theoretical volume consumed by the end of the day (based on theoretical flowrate plus window program).

You can now clearly see the program duration for each station on the summary chart (Blue bar for standard irrigation and purple for fertigation). If you want to change your programs, you can either go on each station or you can directly click on the data appearing on the chart.

Also, note you cannot step back in the past. You can only visualize the programming of the day and the ones from the days to come.

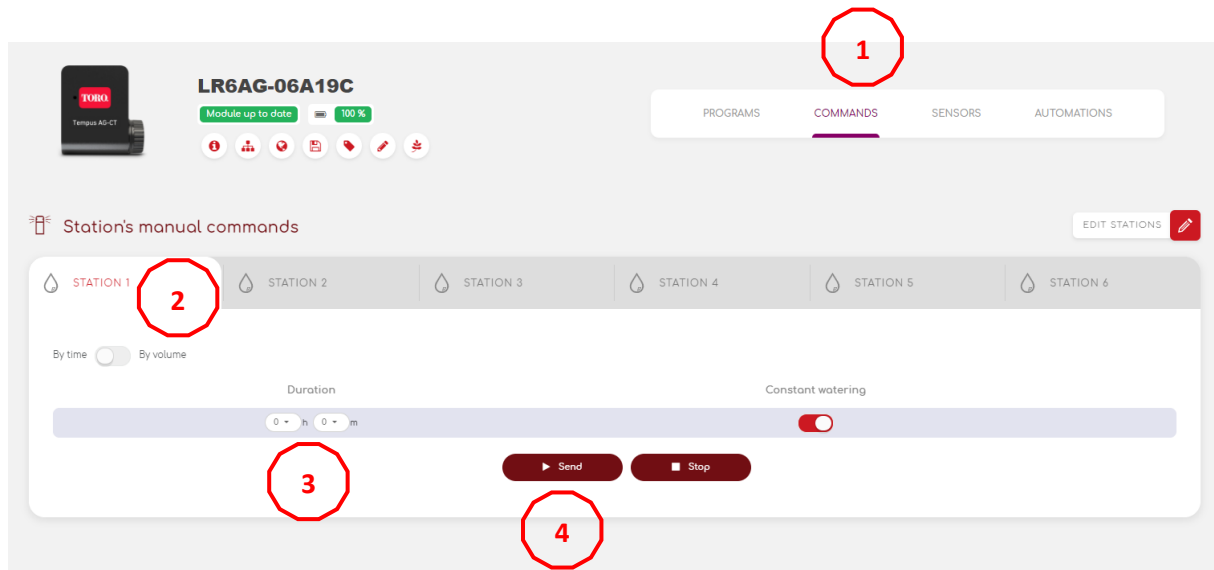


You can also edit the name of your stations by clicking on “Edit Stations” option on the right side of your screen.

The 'Stations editing' dialog box is shown. It has a title bar with a close button (X). Below the title, it says 'Rename modules station'. There are six input fields for station names, labeled 'Station 1' through 'Station 6'. At the bottom right, there is a red 'Apply' button.

Changing your stations names can be useful in your site management and irrigation network identification.

C) START A MANUAL PROGRAM



If you want to start a manual order, you have to select the device concerned, then select the command option (1).

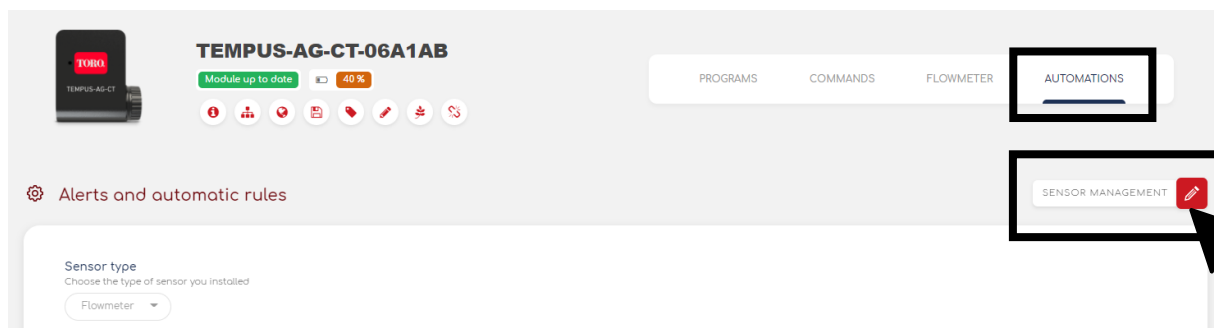
Now, select the station (2) you want to start and enter its watering duration (3) and send the command to the device (4). Please note, your device will need 3 min LoRa latency to get the information. If you want an immediate command, you can do it via Bluetooth, on the app MyTOROTEMPUS.

D) SENSORS DEVICE of the TEMPUS AG-CT

1) RENAME THE SENSOR

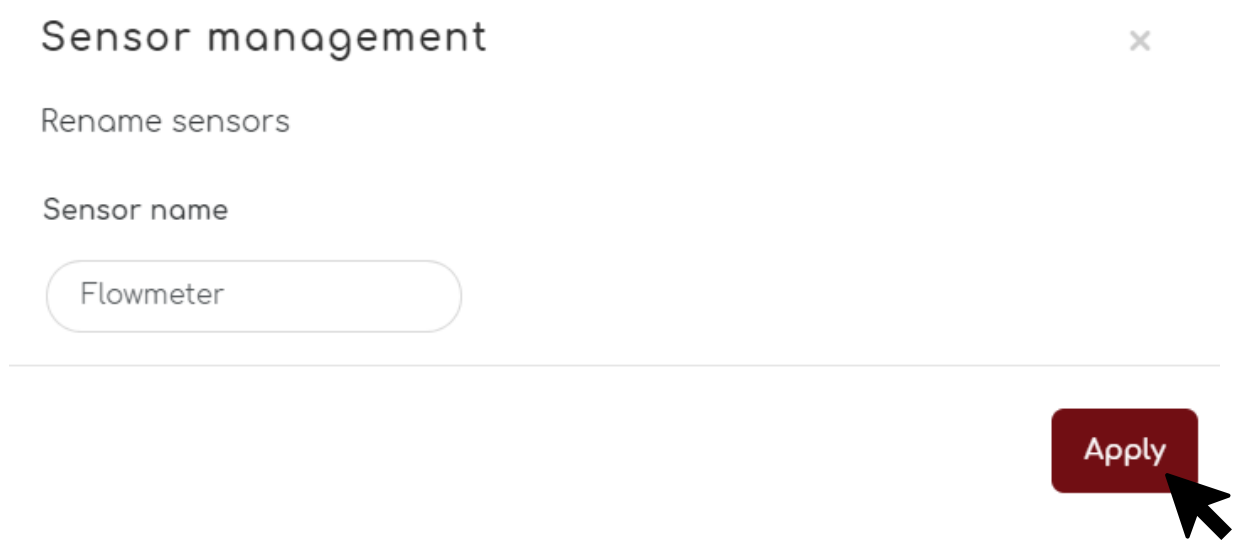
Regarding the sensor device available, you have the possibility to connect either a flowmeter, a rain sensor or a pressure switch. The following paragraphs will describe the settings and visualization of each sensor.

First, in order to set up your sensor to your device, you will need to do it via MyTOROTEMPUS app (Please refer to the app user manual) and follow the described steps.



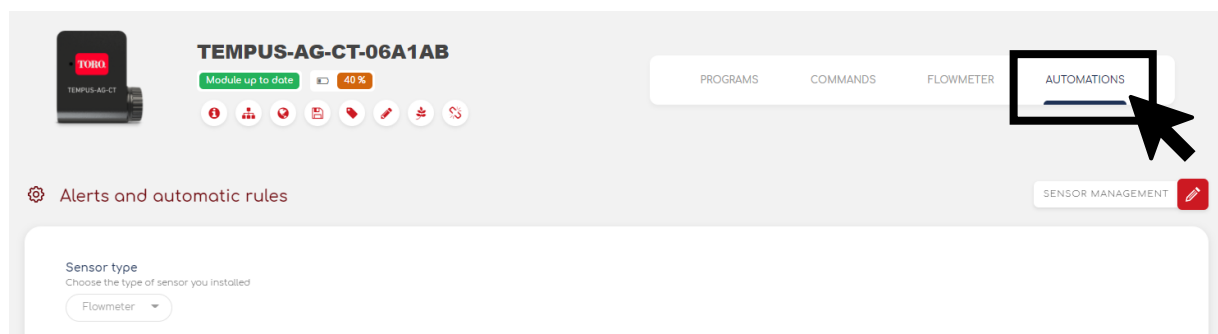
Once the configuration of your sensor is complete via the app, you can access “Automations” displayed on top right of the platform screen in order to enter the settings of your sensor.

On top right of the table in Automation's page, you will find the possibility to rename your sensor with "Sensor management".




Select the sensor you want to rename and change it, then click on "Apply".

- 2) FLOWMETER
 - 1.1) ALERTS AND AUTOMATIC RULES



When you access the "Automations" option, you can define alerts and automatic rules of the flowmeter.

Alerts and automatic rules SENSOR MANAGEMENT 

Sensor type
Choose the type of sensor you installed

Flowmeter

Notification preference
Choose the ways you want to be notified.

Push Notification Email

Daily volume alert
Enter thresholds to be notified when extreme values are reached.

1 Low threshold 200 gal High threshold 2000 gal

You have the possibility to enter your daily volume alert by defining low and high thresholds.

(1) HIGH THRESHOLD: Maximum water consumption (in Gallon) you don't want to exceed on a 24-hour period of time. In case of exceeded objective, you will be immediately informed (per e-mail and smartphone and/ or tablet notification).

LOW THRESHOLD: Minimum water consumption (in Gallon) you want to reach in a 24-hour period of time. In case of non-reached objective, you will be informed the next day, at 7am (per e-mail and smartphone and/ or tablet notification).

2 **Settling time**
Delay during which the flow is not monitored following a start.

min

(2) The settling time avoid to send alerts of the flow during the stabilization period (for example: the flowrate of a pump can be higher at the beginning of the irrigation and after few minutes, it will be stabilized.)

3 **Leak detection alert**
Max volume(L) allowed before alert

200 gal

(3) LEAK DETECTION ALERT: Water volume threshold outside irrigation period of time (in Gallon) from which you want to be alerted.

4

Stations flow

Once you have entered the flow rate of your installation, you can set threshold alerts to protect you during a malfunction.

Enter the nominal flow rate of your different stations in order to control it. You will be able to detect abnormal flows during your watering.

These flow values must be entered in the program management page of the programmer, in the "station flow" section.

Station 1	10	gal/min
Station 2	5	gal/min
Station 3	10	gal/min
Station 4	10	gal/min
Station 5	20	gal/min
Station 6	5	gal/min

Maximum flow alert

Percentage 120% ▼

Automatic actions Permanent OFF ▼

Minimum flow alert

Percentage 0% ▼

Automatic actions No action ▼

Factor of flowmeter

Set up the number of gallon per pulse.

Other ▼ 1 gal / pulse

(4) STATION FLOW: For each station, enter the theoretical or real flow rate.

If you do not know this value, you can calculate it thanks to the immediate value function (available on the app only, in Bluetooth).

HOW TO CALCULATE YOUR STATION FLOW:

Step 1: Do and register (on a paper) an Immediate value (Val.1).

Step 2: Launch a manual command of your chosen station during 5 minutes.

Step 3: After 5 minutes, when the irrigation is stopped, do and register an immediate value (Val.2).

Step 4: Calculate your flow rate: $(\text{Val.2} - \text{Val.1}) / 5 = \text{Flow rate in gallon per minute.}$

Step 5: Enter this value in the chosen station flow.

5 Maximum flow alert

Percentage 120% ▾

Automatic actions Permanent OFF ▾

Minimum flow alert

Percentage 0% ▾

Automatic actions Permanent OFF ▾

(5) Enter the percentage of the maximum and low nominal flow rate and the linked actions in case those values are reached:

No actions: You will receive an email or a notification but no action will be done on the device.

Permanent OFF: The watering will completely stop and will require a “ON” manual command in order to start again (In the app for the concerned device). This will be applied for all stations.

Inhibit your output: The concerned station (which has the high flowrate detected) will stop but the other stations will continue to irrigate as programmed. You need to enter the app in order to remove the alert and make the station operational again.

Factor of flowmeter
Set up the number of gallon per pulse.

6 Other ▾ 1 gal / pulse

(6) The K factor is provided by the flow meter manufacturer. This value has already been set via the app during the installation of the flowmeter. If you need to change the value, you can do it with this option.

Linked modules

7 Modules
Link to your TEMPUS-AG-CT the modules which will be controlled by the next actions.

Add modules

(7) Here is the possibility for you to link the flowmeter daily consumption alerts to your different devices.

Action

All the modules linked to the TEMPUS-AG-CT will be affected.

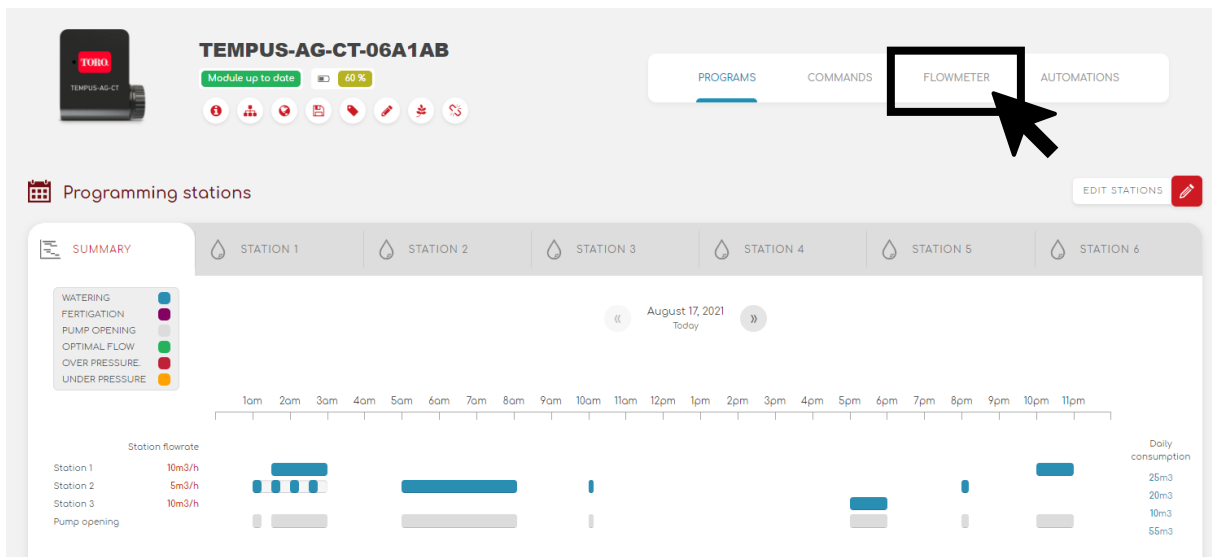
8

Low threshold not reached	High threshold exceeded
No action	No action

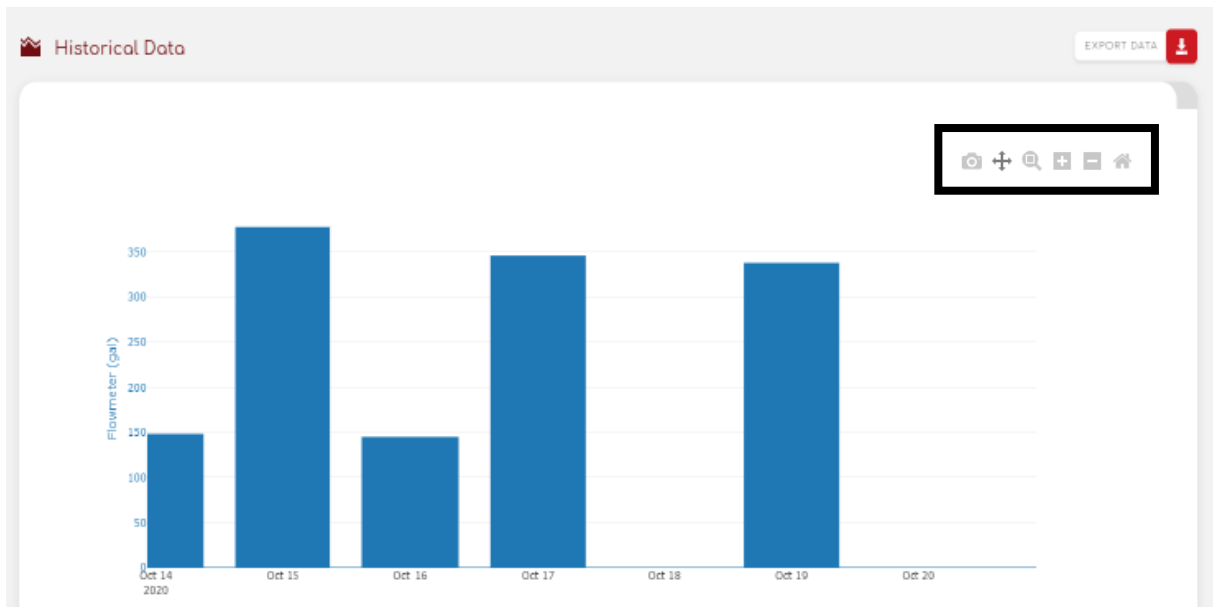
Save






(8) Select the action in case of a daily consumption reached or not which will affect the linked modules.







1.2) VISUALIZE WATER CONSUMPTION



In order to visualize your water consumption, you need to select "Flowmeter".

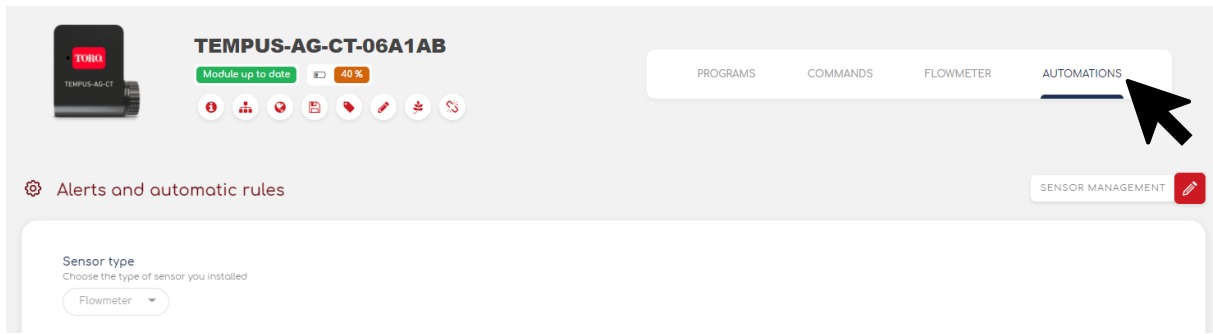


This graph represents your water flow rate and its visualization can be adjusted thanks to the options on top right of the chart's screen:     

-  Download the plot as a png document.
-  Get the panoramic view of the chart and move the data on different period.
-  Focus on a specific area on your chart to get precise data with the zoom tool.
-   Display your graph values per hour, day, week, month... with the zoom in and out options.
-  Reset the axes to their default values.

2) RAIN SENSOR

2.1) AUTOMATION



Select the “Automations” option, you can define alerts and automatic rules of the Rain sensor.

1 **Sensor type**
Choose the type of sensor you installed

Rain sensor

Notification preference
Choose the ways you want to be notified.

Push Notification Email

2 **Precipitation alert**
Select the changes of state for which you want to be warned.

End of precipitation Start of precipitation

Save

Linked modules

3 **Modules**
Link to your LR-AG-US the modules which will be controlled by the next actions.

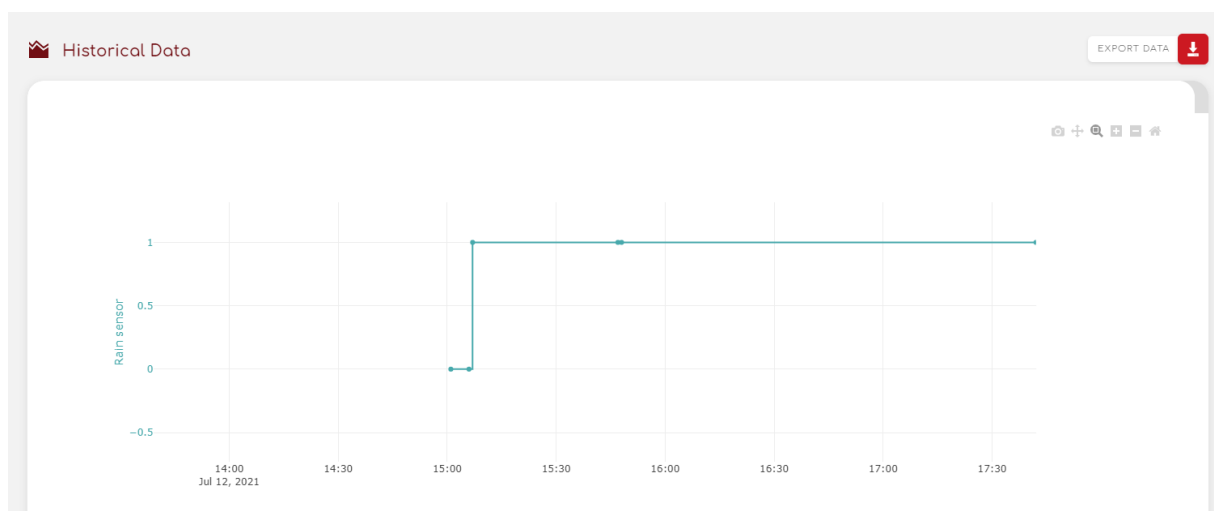
Add modules

4 **Action**
All the modules linked to the TEMPUS-AG-MS will be affected.

Low threshold not reached	High threshold exceeded
Permanent OFF	No action
	No action
	Permanent OFF
	OFF - 1 day
	OFF - 2 days
	OFF - 3 days
	ON

- (1) Once your sensor has been set via the app, you can see the type of sensor. Note that you cannot modify it. The only way to remove your sensor is via the app, please refer to the app user manual.
- (2) Here, select if you want to be notified in case the sensor has detected a start of rain or an end of rain.
- (3) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.
- (4) This step is the one where you can define the actions you want to be applied regarding the thresholds exceeded or not. For example, on the screenshot above: In case of start of precipitations, we select a permanent OFF.

2.2) VISUALIZE



In case of rain, the value 1 will be reached on the graph on the rain sensor.

3) PRESSURE SWITCH

3.1) THRESHOLD SETTINGS

If your pressure switch is connected on the valve, you can activate the high and low threshold:

The settling time avoid to alert during the stabilization period (3min in this example).

How to set up manually your pressure switch on the pipe.

- 1- The contact of the pressure switch is normally closed.
- 2- Put the pressure switch on the pipe.
- 3- Remove the cap on the head of the pressure switch.
- 4- Check that the value is 0 using the instant value connected in Bluetooth with the App.
- 5- Open the irrigation and check if the value is 1.

- 6- To set it up precisely. During irrigation Screw the screw of the pressure switch until the instant value go to 0.
- 7- Then always during the irrigation, unscrew slowly a little bit more the screw in order to get again the 1.

Note that you can also use a multimeter instead of checking the instant value.

⚙️ Alerts and automatic rules

Sensor type
Choose the type of sensor you installed

1 1 Pressure switch ▾

Notification preference
Choose the ways you want to be notified.

2 2 Push Notification Email

Alerts for exceeding thresholds
Enter thresholds to be notified when extreme values are reached.

3 3 Low threshold 0 High threshold 1

Settling time
Time during which the pressure drops after a start.

min

Save

🔗 Linked modules

Modules
Link to your TEMPUS-AG-CT the modules which will be controlled by the next actions.

4 4 Add modules Add

Action
All the modules linked to the TEMPUS-AG-CT will be affected.

5 5

<p style="text-align: center; font-size: 0.8em;">Low threshold not reached</p> <p style="text-align: center;">No action ▾</p>	<p style="text-align: center; font-size: 0.8em;">High threshold exceeded</p> <p style="text-align: center;">No action ▾</p>	<p style="text-align: center; font-size: 0.8em;">Back between thresholds</p> <p style="text-align: center;">No action ▾</p>
--	--	--

Save

- (1) Once your sensor has been set via the app, you can see the type of sensor. Note you cannot modify it. The only way to remove your sensor is via the app, please refer to the user manual of MyToroTempus app.
- (2) Here, select if you want to be notified in case the sensor has detected pressure or not via notification or via email.
- (3) Enter the thresholds with extreme values for which you want to be alerted.
- (4) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.

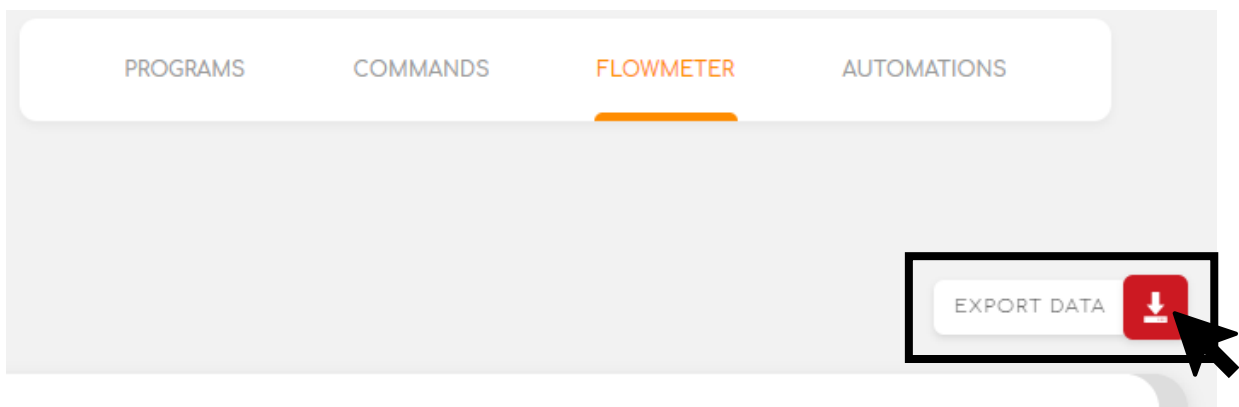
- (5) This step is the one where you can define the actions you want to be applied regarding the thresholds reached or not.

3.2) VISUALIZE



You can visualize if the pressure has been reached or not on the graphic above. If value = 1, the pressure has been reached. If value = 0, the pressure has not been reached.

4) EXPORT DATA



The platform also offers the possibility to export your sensors data thanks to the option on top right of the screen.

Export data



Time range

01/08/2021 12:00 AM - 16/08/2021 05:50 PM

Timezone

Europe/Paris

File format



Excel



CSV



JSON

Export



You can now choose the type of document you want to download and click on “Export”. Once selected, the document type will be displayed in green.

V – TEMPUS AG MS

The TEMPUS-AG-MS is a Bluetooth® / LoRa connected battery operated sensor device that allows the data acquisition of temperature, moisture, flow rate, wind speed, rainfall. If linked to a LoRa gateway (TEMPUS-AG-4G or TEMPUS-AG-WF), it allows to visualize collected data in your MYTORO TEMPUS account (in the app or the platform). You can define actions on your other TEMPUS device according to the thresholds you would have set up for each sensor.

To pair your TEMPUS-AG-MS, please follow the procedure from section II. A of the app user manual.

To associate your TEMPUS-AG-MS to your gateway TEMPUS-AG-4G / TEMPUS-AG-WF, please follow the procedure from section II.B. of the app user manual.

Your TEMPUS-AG-MS is a data acquisition product and can either be a 1 or a 4 inputs device.

TEMPUS-AG-MS 1 input: You can choose which sensor you want to connect to your device (soil moisture, air humidity, anemometer, flow meter, pluviometer and rain sensor).



This TEMPUS-AG-MS 1 input is not compatible with the temperature sensor.

TEMPUS-AG-MS 4 inputs: One input is already dedicated to the temperature sensor (PT100), the three other inputs are free and you can connect either a soil moisture sensor or an air humidity, an anemometer, flow meter, pluviometer, rain sensor.

First, in order to set up your sensor to your device, you will need to do it via MyTOROTEMPUS app (Please refer to the app user manual) and follow the described steps.

As an example, on the following pages, we will set up 4 sensors: moisture, anemometer, air moisture sensor and a temperature sensor.

On the main page of your TEMPUS-AG-MS, you will find a summary graph with the four sensors:



A) MOISTURE SENSOR

The TEMPUS-AG-MS is compatible with various moisture sensors' manufacturers (For example: VEGETRONIX VH400, TRUEBNER SMT50, WATERSCOOT SM100, DECAGON EC10 / EC5).

Alerts and automatic rules

MOISTURE SENSOR | ANEMOMETER | AIR MOISTUR

1 **Sensor type**
Choose the type of sensor you installed
Moisture sensor

2 **Notification preference**
Choose the ways you want to be notified.
Push Notification Email

3 **Alerts for exceeding thresholds**
Enter thresholds to be notified when extreme values are reached.
Low threshold % High threshold %

Save

Linked modules

Modules

Link to your TEMPUS-AG-MS the modules which will be controlled by the next actions.

Add modules Add

Action

All the modules linked to the TEMPUS-AG-MS will be affected.

Low threshold not reached

No action

High threshold exceeded

No action

Back between thresholds

No action

Save

- (1)** Once your sensor has been set via the app, you can see the type of sensor. Note you cannot modify it. The only way to remove your sensor is via the app, please refer to the app user manual.
- (2)** Here, select if you want to be notified in case the sensor has reached high or low threshold via notification or via email.
- (3)** Enter the thresholds with extreme values in percentage for which you want to be alerted.

- (4) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.
- (5) This step is the one where you can define the actions you want to be applied regarding the thresholds reached or not.

B) ANEMOMETER

The TEMPUS AG MS is compatible with one anemometer: IED 4403.

Alerts and automatic rules

MOISTURE SENSOR ANEMOMETER AIR MOISTURE SE

Sensor type
Choose the type of sensor you installed

1 Anemometer

Notification preference
Choose the ways you want to be notified.

2 Push Notification Email

Alerts for exceeding thresholds
Enter thresholds to be notified when extreme values are reached.

3 Low threshold mph High threshold mph

Save

Linked modules

Modules
Link to your TEMPUS-AG-MS the modules which will be controlled by the next actions.

4 Add modules **Add**

Action
All the modules linked to the TEMPUS-AG-MS will be affected.

5

Low threshold not reached	High threshold exceeded	Back between thresholds
No action	No action	No action

Save

- (1) Once your sensor has been set via the app, you can see the type of sensor. Note you cannot modify it. The only way to remove your sensor is via the app, please refer to the app user manual.
- (2) Here, select if you want to be notified in case the sensor has reached high or low threshold via notification or via email.
- (3) Enter the thresholds with extreme values in mph for which you want to be alerted.

- (4) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.
- (5) This step is the one where you can define the actions you want to be applied regarding the thresholds reached or not.

C) AIR MOISTURE SENSOR

The TEMPUS AG MS is compatible with HM1500 LF air moisture sensor.

Alerts and automatic rules

MOISTURE SENSOR | ANEMOMETER | **AIR MOISTURE SENSOR**

1 **Sensor type**
Choose the type of sensor you installed
Air moisture sensor

2 **Notification preference**
Choose the ways you want to be notified.
Push Notification Email

3 **Alerts for exceeding thresholds**
Enter thresholds to be notified when extreme values are reached.
Low threshold 0 % High threshold 0 %

Save

Linked modules

4 **Modules**
Link to your TEMPUS-AG-MS the modules which will be controlled by the next actions.
Add modules Add

5 **Action**
All the modules linked to the TEMPUS-AG-MS will be affected.

Low threshold not reached: No action

High threshold exceeded: No action

Back between thresholds: No action

Save

- (1) Once your sensor has been set via the app, you can see the type of sensor. Note you cannot modify it. The only way to remove your sensor is via the app, please refer to the app user manual.
- (2) Here, select if you want to be notified in case the sensor has reached high or low threshold via notification or via email.
- (3) Enter the thresholds with extreme values in percentage for which you want to be alerted.

- (4) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.
- (5) This step is the one where you can define the actions you want to be applied regarding the thresholds reached or not.

D) THERMOMETER

The TEMPUS-AG-MS is compatible with the PT100 thermometer.

Alerts and automatic rules SENSOR MANAGEMENT

MOISTURE SENSOR ANEMOMETER AIR MOISTURE SENSOR **THERMOMETER**

1 **Sensor type**
Choose the type of sensor you installed.
Temperature

2 **Notification preference**
Choose the ways you want to be notified.
Push Notification Email

3 **Alerts for exceeding thresholds**
Enter thresholds to be notified when extreme values are reached.
Low threshold 60.8 °F High threshold 109.4 °F

Save

4 **Linked modules**
Modules
Link to your TEMPUS-AG-MS the modules which will be controlled by the next actions.
Add modules **Add**

5 **Action**
All the modules linked to the TEMPUS-AG-MS will be affected.

Low threshold not reached: No action

High threshold exceeded: No action

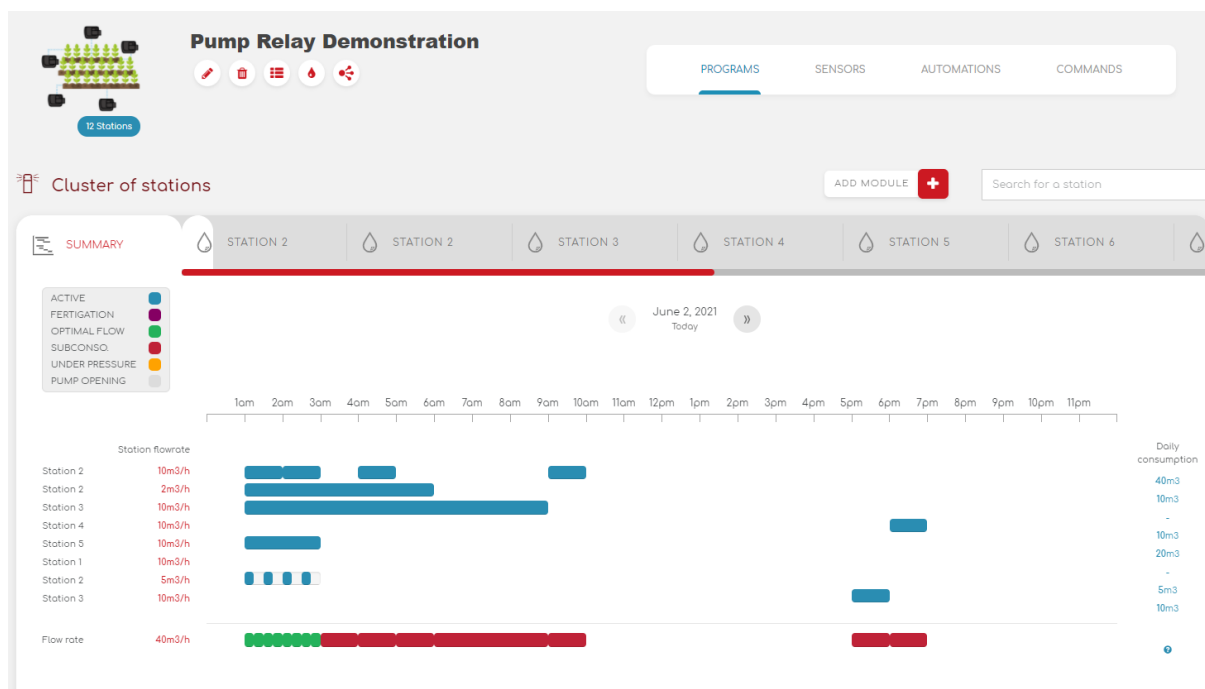
Back between thresholds: No action

Save

- (1) Once your sensor has been set via the app, you can see the type of sensor. Note you cannot modify it. The only way to remove your sensor is via the app, please refer to the app user manual.
- (2) Here, select if you want to be notified in case the sensor has reached high or low threshold via notification or via email.
- (3) Enter the thresholds with extreme values in °F for which you want to be alerted.
- (4) In the part of “Linked Modules”, you can choose among your devices, which one you want to be controlled by the actions defined.
- (5) This step is the one where you can define the actions you want to be applied regarding the thresholds reached or not.

VIII – CLUSTER FUNCTION

A) CLUSTER FUNCTION PRESENTATION

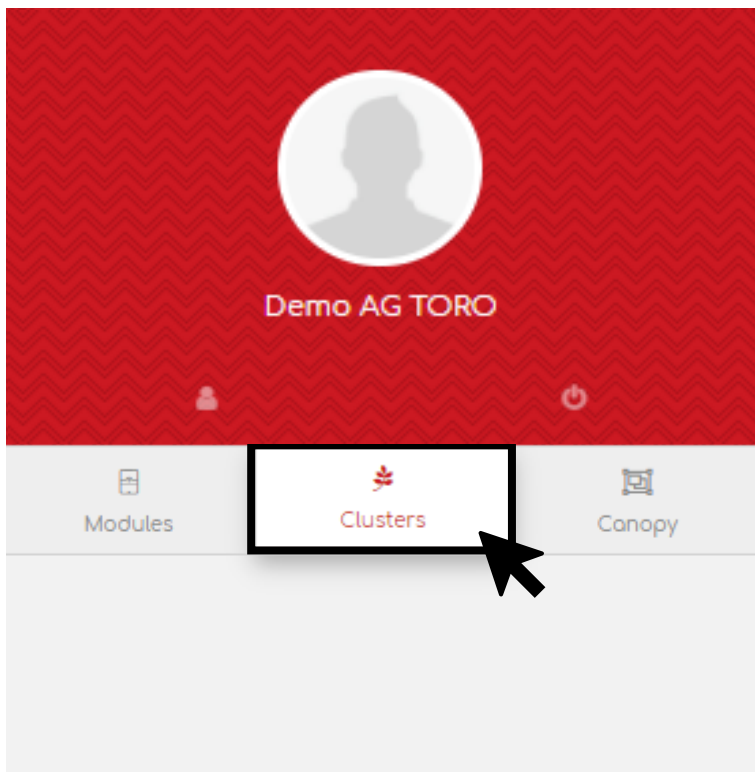


The cluster function allows you to group a number of devices in order to improve your programming management efficiency. If you define a master valve into the cluster, this one will synchronize automatically all devices programming. The summary view will display the overview of the cluster. It will also allow you to check the safety of your installation / programming. The color code of the MV helps you to identify the risk of high pressure (red color) and under pressure (orange color).

The green color stands for the optimum flowrate which means that the total volume of all stations flow rate, working at the same time, is compliant with your MV flow rate.

If you want to change your programs, you can either go on each station or you can directly click on the data appearing on the chart.

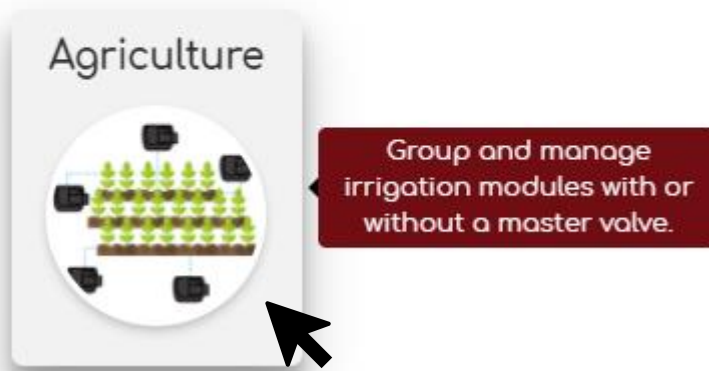
B) FIRST STEPS WITH YOUR CLUSTER FUNCTION



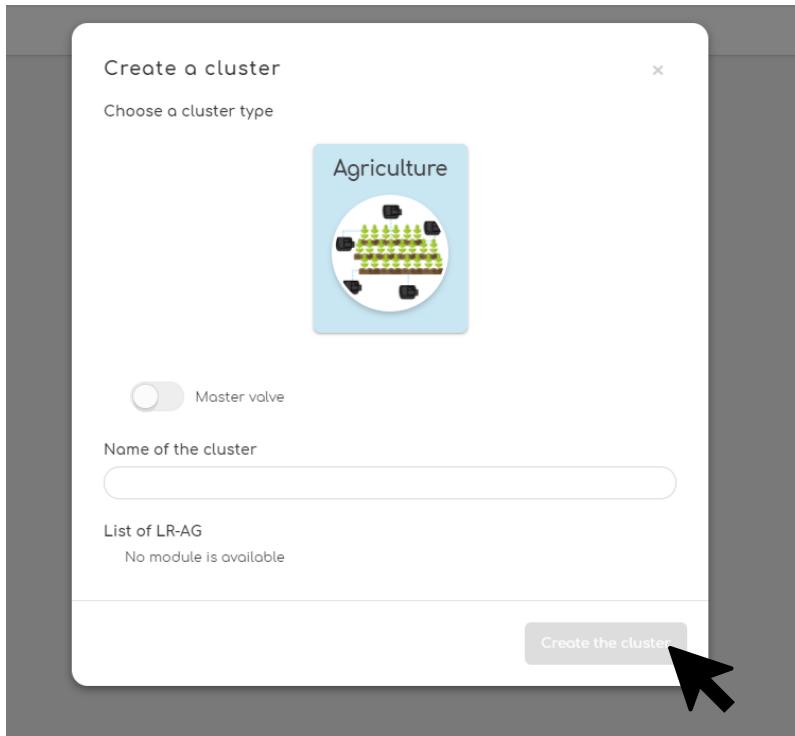
In order to create your cluster, click on the “Clusters” button.

Create a cluster ×

Choose a cluster type



Once you have clicked on “Create a cluster”, you can now choose a cluster type.

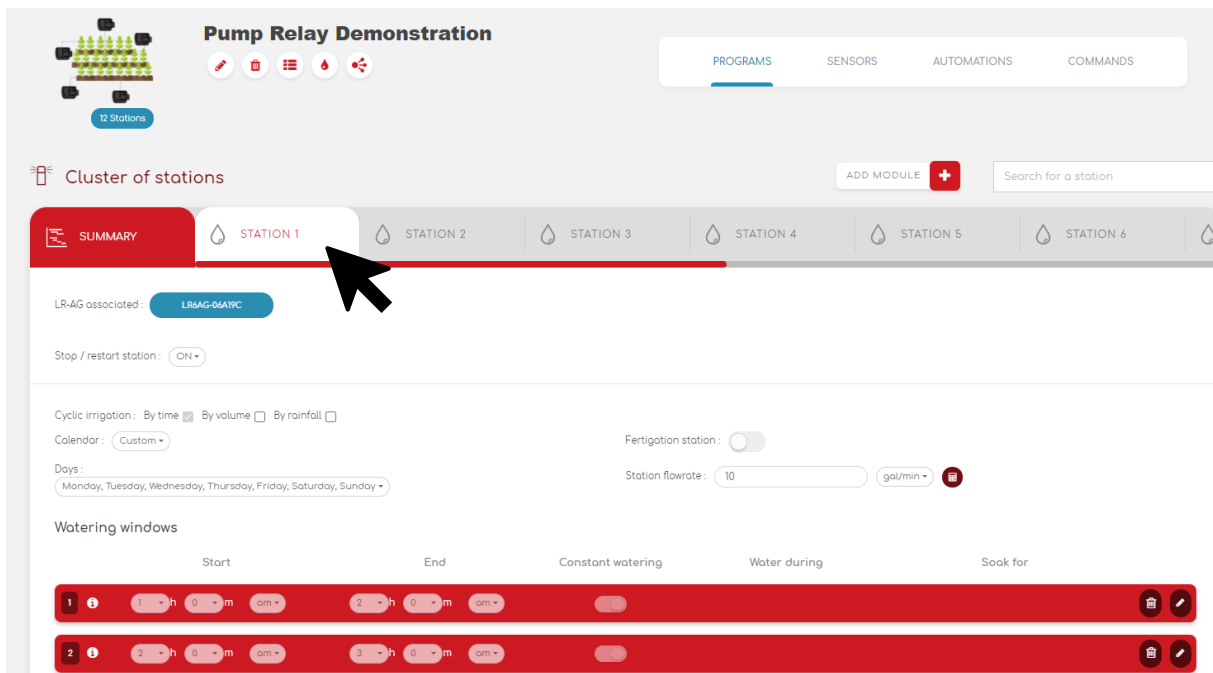


If you have a TEMPUS AG-MV, which is a device dedicated to manage your pump openings, you can select “Master valve”. The device will be recognized as master valve in your cluster.

Then, you can give a name to your cluster.

Add your TEMPUS AG-CT devices and click on “Create the cluster”.

C) PROGRAMMING OF EACH STATION

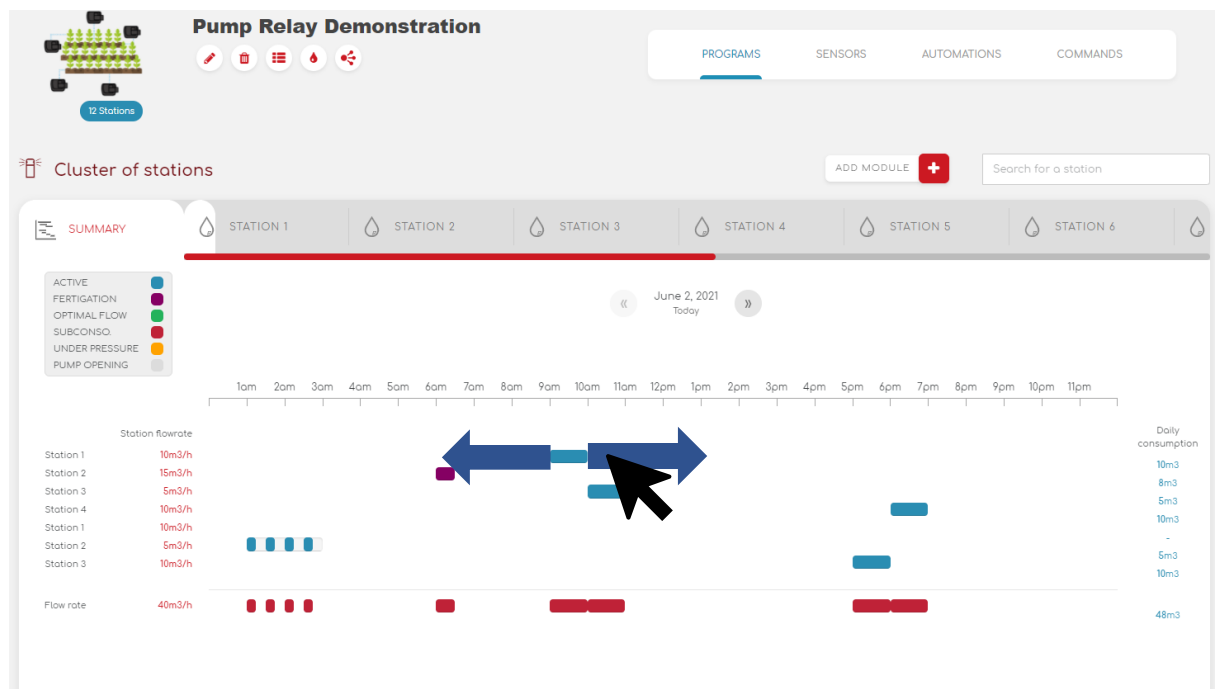


Once your cluster is created, the platform will synchronize all programs of your TEMPUS AG CT. Those information will be displayed in a summary chart.

You have the possibility to program your stations one by one by selecting the concerned stations, as per the example above. Then, on the selected station, if you want to change the program, you can follow the steps described in part IV.A.

You can also change the programming of all the stations directly on the summary chart. This will be described in the following paragraph.

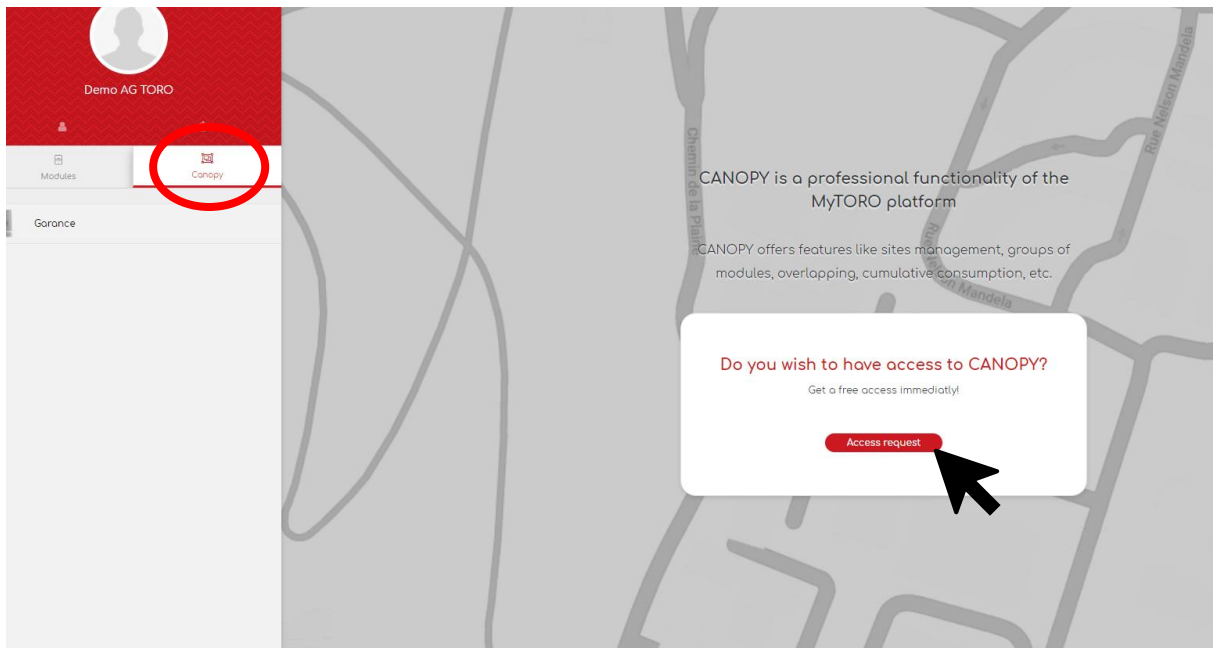
D) CHART SUMMARY PROGRAMMING



- 1) On the chart summary, you can visualize the flow of each of your stations. Also, if you define TORO AG MV as a main valve, the platform will display the addition of all water consumption's values depending on the station programming.
- 2) The summary view will also display the daily consumption of each station.
- 3) On this page, you can also directly change the programming of all stations by clicking to extend or reduce the concerned slot.

IX – CANOPY FUNCTION

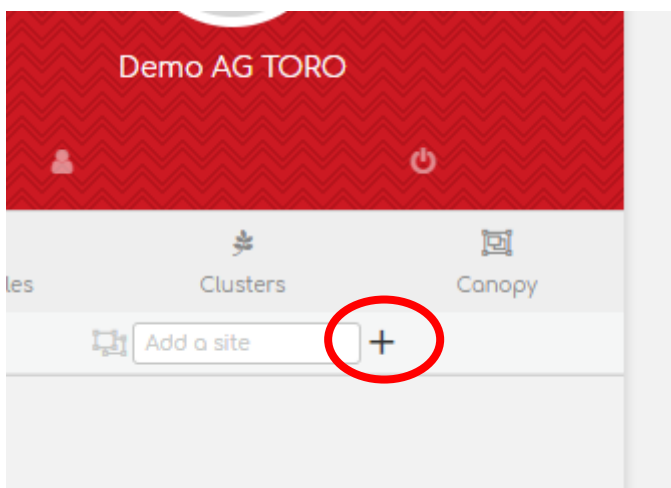
A) CANOPY FUNCTION EXPLANATION AND ACCESS REQUEST



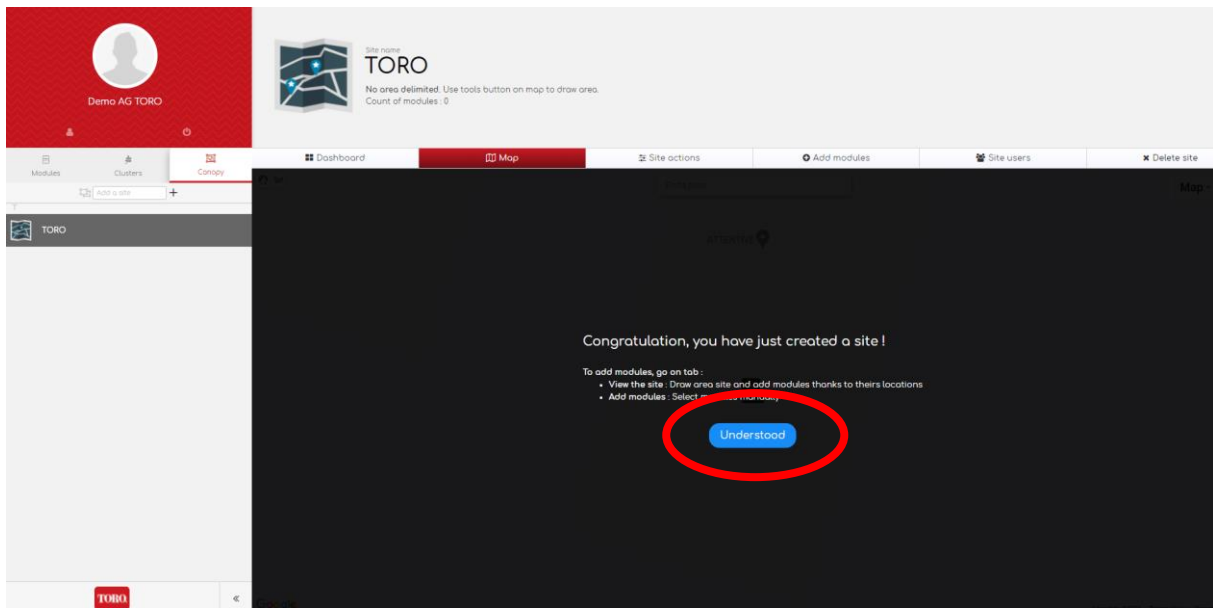
CANOPY is a function which has been designed for professional users. This function allows the user to create and draw their own site and see all the geolocated modules in a map. It also allows to manage their devices with grouped commands. There are many options such as: OFF / ON command on selected devices, overlap checking, manual station grouped command, water consumption and user's management.

If you are a professional and you want access to this function, go to "CANOPY" on top left of your screen and then click on "Access request". You will receive an email in order to check if you are a professional or not. After verification, your CANOPY access will be granted.

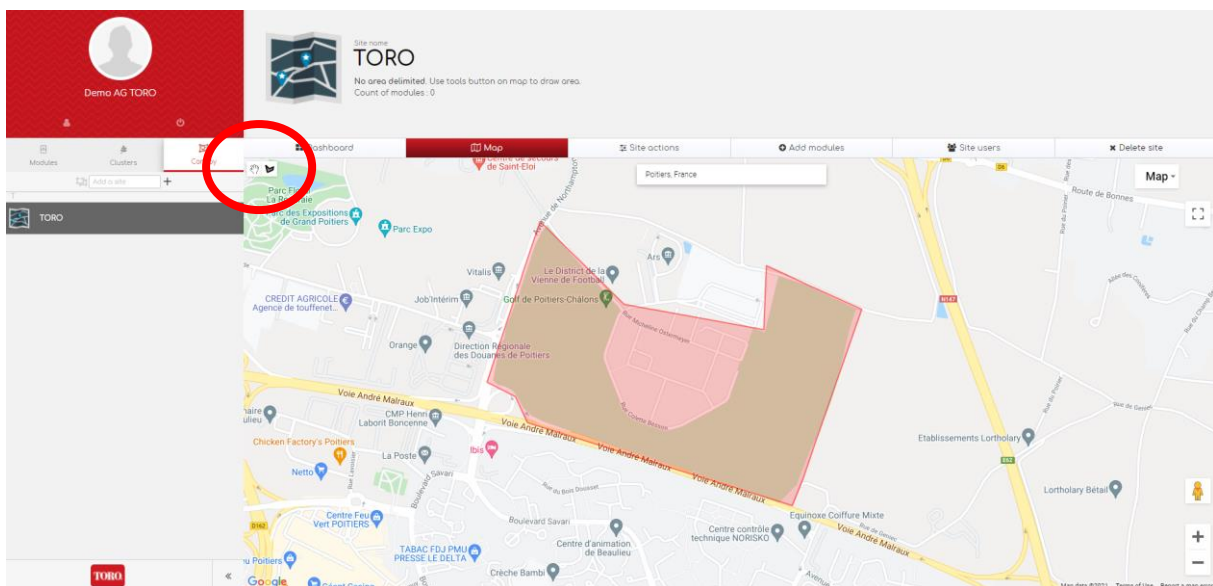
B) HOW TO CREATE A SITE



First of all, when using CANOPY, you need to enter the name of your site, for example “TORO” and add it



Then, you will get the screen above, and you can click on “understood” in order to start with the function.



You can also draw your site thanks to the “draw a shape” logo on the top left of the map. In order to draw your site, you can click on the map where you want your area to start and it will be a straight line, click on the map to end it and then you can add another line, and so on...

C) ADD DEVICES

	Picture	Name	Type	Serial Number	Actions
<input checked="" type="checkbox"/>		Garance	LR-BST-OUTDOOR-US	0C000006CF29000A	<input type="button" value="Collapse"/> <input type="button" value="Add"/>
<input checked="" type="checkbox"/>		LR6AG-06A19C	LR-AG-US	6E060106A19C000A	<input type="button" value="Add"/>
<input checked="" type="checkbox"/>		LR6AG-06A14B	LR-AG-US	6E060106A14B000A	<input type="button" value="Add"/>

Do you want to add 3 module(s) ?

Once your site is drawn, you can add devices to the area. Make sure your devices have been geolocated.

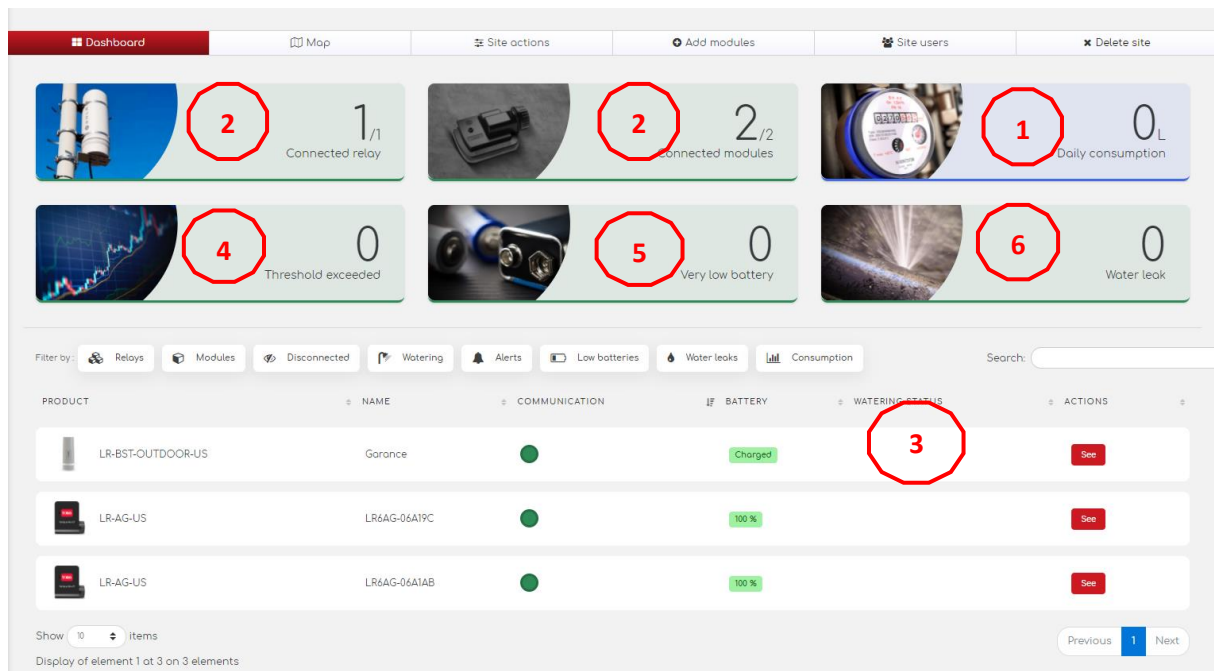
LR6AG-06A19C
customer 1

Module up to date

In order to register the geolocation, you need to access your device, select the planet logo below and enter the address where the device is located.

Other option to geolocate your module is to go near your device, in Bluetooth via the app and determine the location thanks to your GPS phone localization (Via the app, go to the pen logo on top right of the screen).

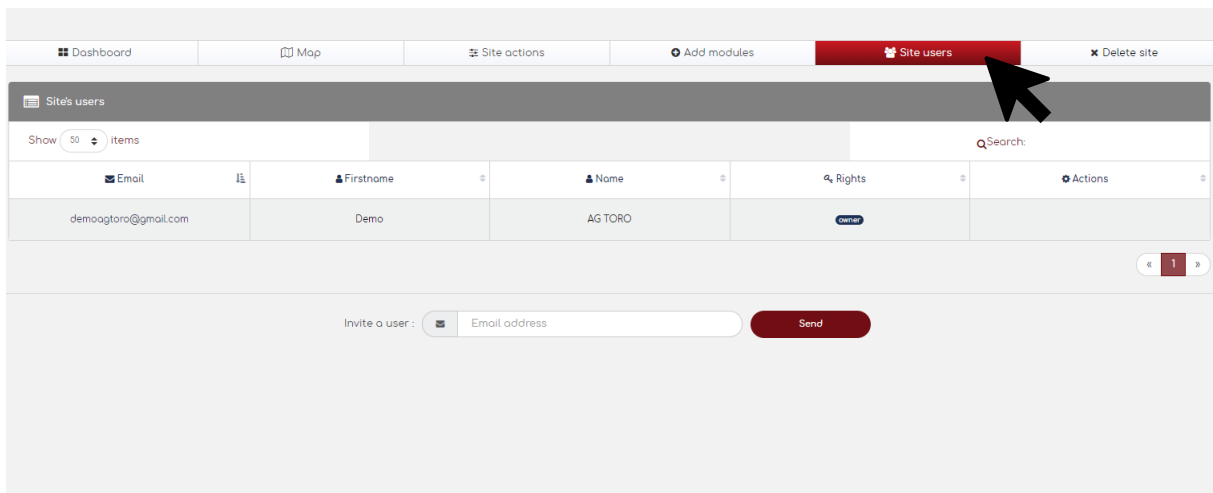
D) DASHBOARD: VISUALISE YOUR SITE AND ALL DATA AT ONCE



Thanks to CANOPY, you can get all information related to your site at once, on the dashboard. This will allow you to check if anything suspicious or abnormal happened in your area. For example:

- 1 - You can check your water consumption.
- 2 - The connection status of your devices (disconnected or not).
- 3 - The watering status.
- 4 - If your sensor thresholds have been exceeded or not.
- 5 - if you need to change batteries on your devices.
- 6 - If any leakage happened.

E) ASSOCIATE A SITE TO A USER

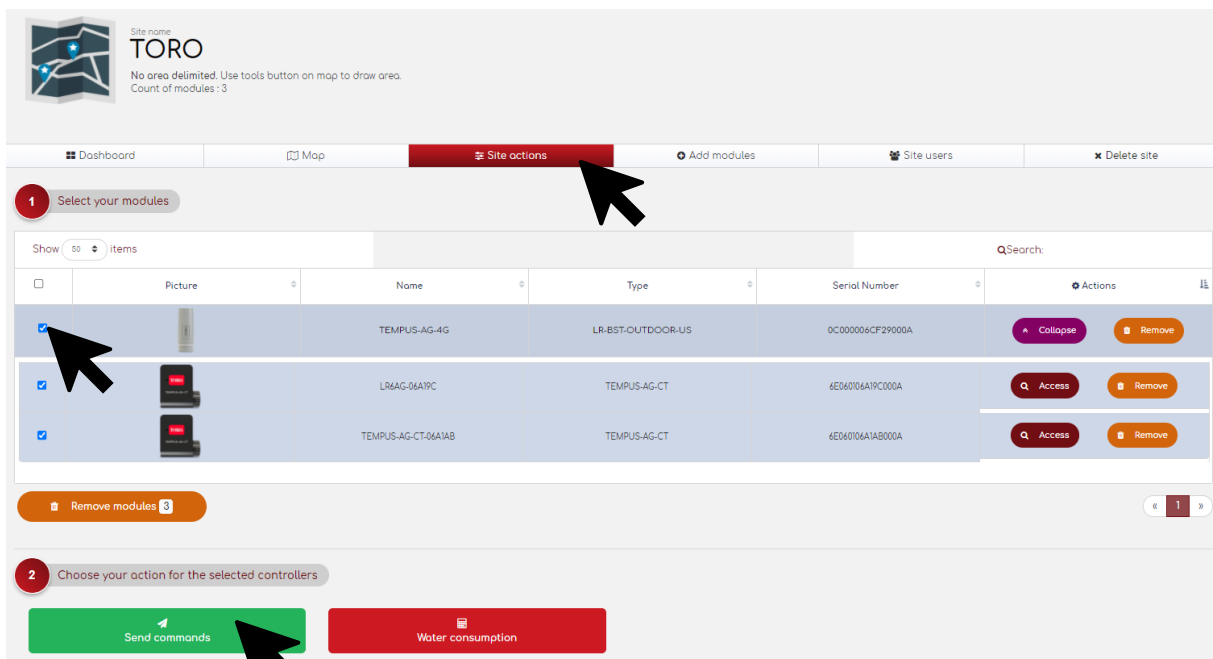


As you can create as much sites as you want, you can attribute users to the ones you want. For example, if you are a municipality and manage different areas in your city, you can allow different gardeners to different area. This can be done thanks to “Site users”, then you select the concerned site and you add the email address of the gardener you want to allow the access.

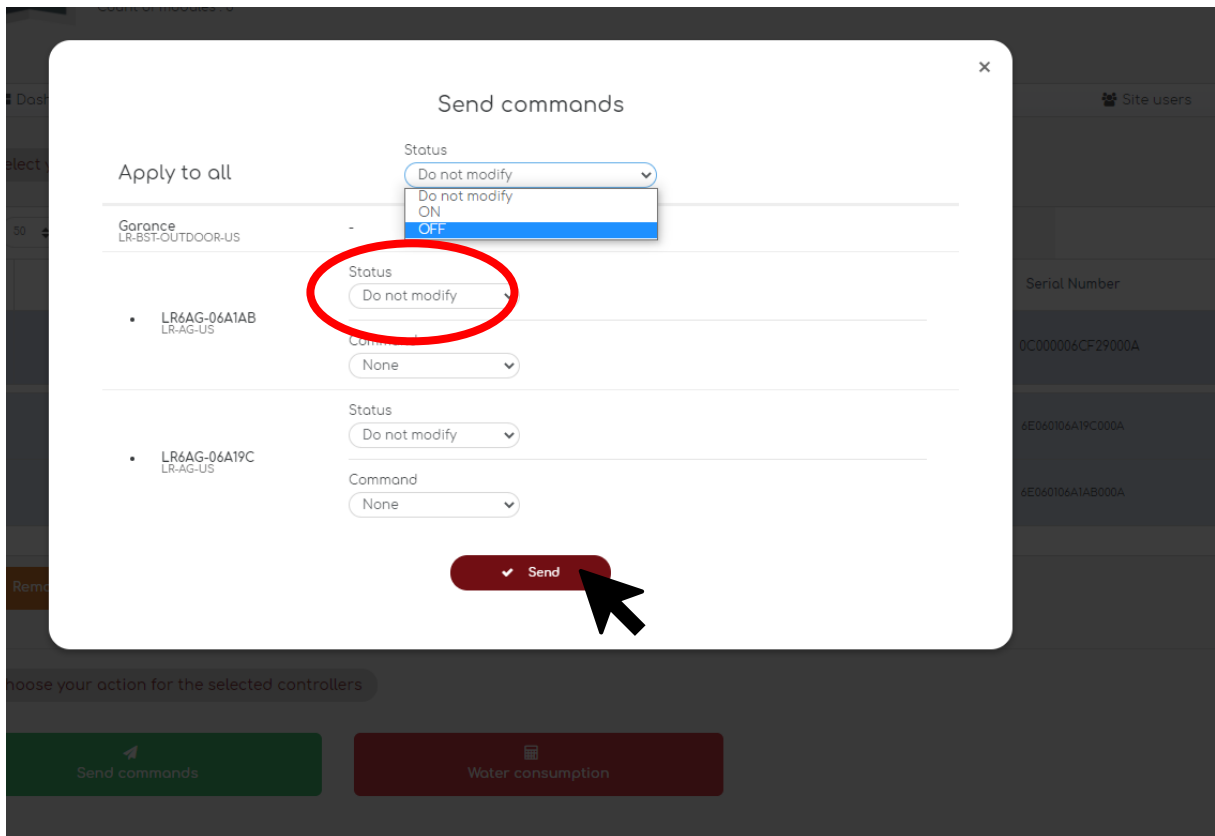
F) GROUPED COMMANDS ON CANOPY SITE PRODUCTS

1) GROUPED COMMANDS: ON / OFF

In order to send a command via CANOPY function, go to the main page and select “site action” button.

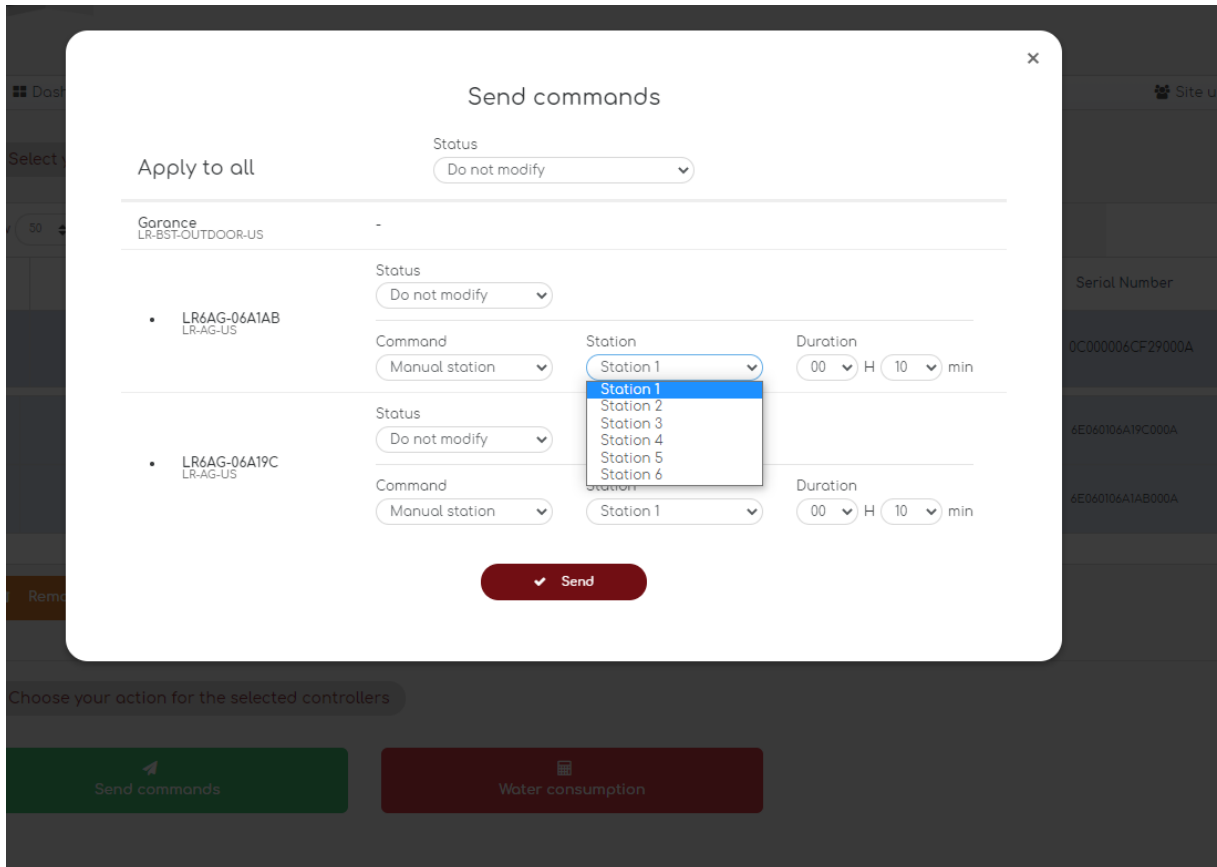


Select the devices you want to send a grouped manual command. Then, click on “send commands”.



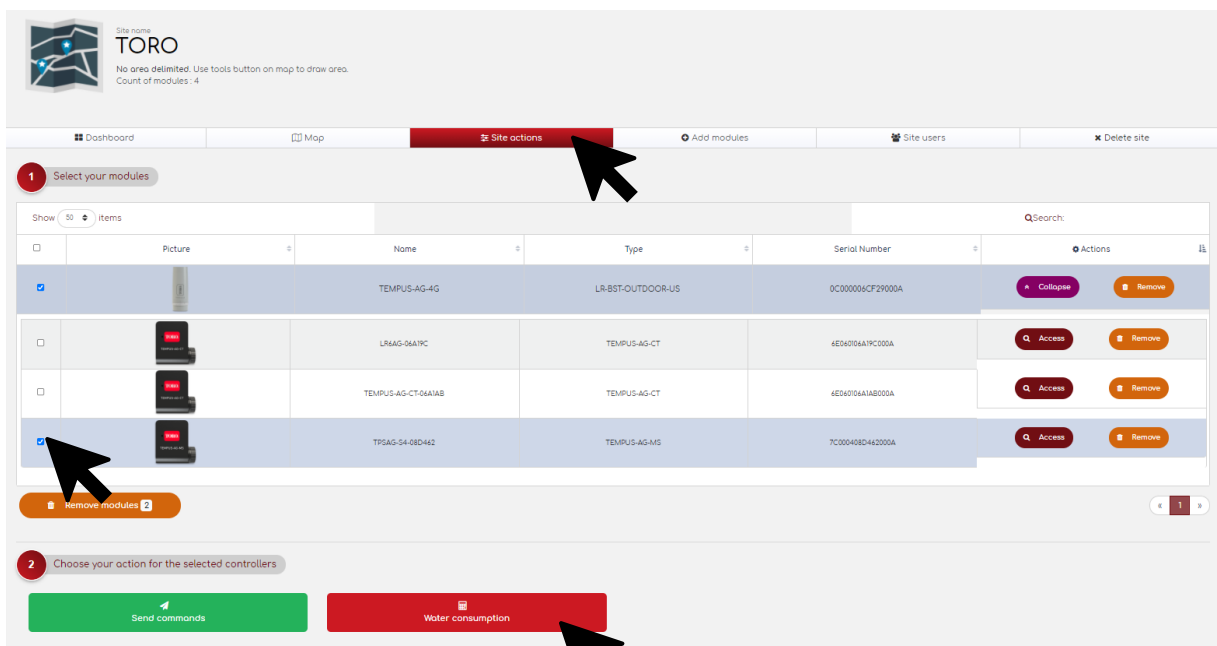
Now, select the action you want to send to all your devices at once: ON, permanent OFF, OFF 1 day, etc... Then, click on “send”.

2) GROUPED COMMANDS: MANUAL COMMANDS



If you need to start a manual command, you can go to “Command”, select manual station and choose the station you want to activate as well with its duration.

G) VISUALIZE YOUR WATER CONSUMPTION OF THE SITE



In order to visualize the water consumption of the complete site, you need to select all the sensors device. Then, select “Water consumption” button.



X – PROFESSIONAL ACCOUNT

1) GENERAL INFORMATION

The professional account functionality will allow you to manage your customer’s devices.

In order to do so, you will need to make sure:

- 1) The customer has created his own MyToroTempus user account or you created it for them with their own email address.
- 2) The devices have been paired directly on the user account via MyToroTempus app.

After the acceptance of the professional by the user, the professional will be allowed to see and modify the customer’s devices.

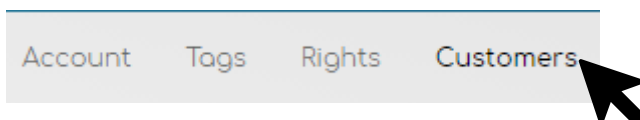
2) REQUEST

On mytorotempusag.com platform, you can send the request for the professional access by providing your VAT (DUNS) number. Then, wait for your request to be approved by an administrator (you will receive an email of confirmation) as per the following screenshot:

3) DEVICES MANAGEMENT

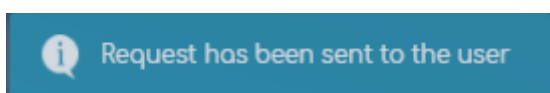
Once the Professional access has been granted to you, you can now send the email request to your customer in order to get his approval for controlling his devices.

To do so, go to your profile and click on the new tab “Customers”.



Then you will have the possibility to either create an account to your customer (Email address, Name and Surname) or send directly a request per email, they will need to create their account themselves.

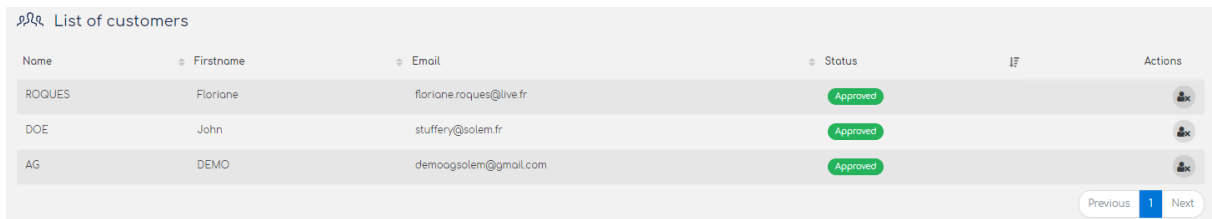
When the account is created and the request sent, you will see the following confirmation on top right of your screen:



You will see the customer appear as per the screenshot below with “waiting” status:

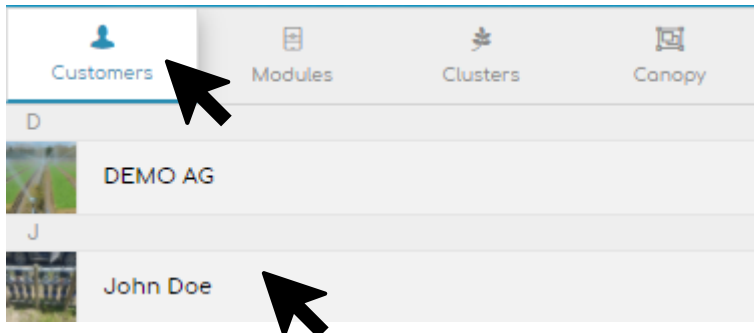
Name	Firstname	Email	Status	IF	Actions
ROQUES	Floriane	floriane.roques@live.fr	Waiting		
DOE	John	stuffeny@solem.fr	Approved		
AG	DEMO	demoogsolem@gmail.com	Approved		

When the customer accepts the request, you receive an email of confirmation and the status will be changed with “Approved”:



Name	Firstname	Email	Status	Actions
ROQUES	Floriane	floriane.roques@live.fr	Approved	
DOE	John	stuffery@solem.fr	Approved	
AG	DEMO	demoogsolem@gmail.com	Approved	

Once the customer has approved your request and the account is created, you can now manage his devices. Go to the left side of your screen and select “Customers”. You will have the list of your customers appearing below, as per the following example:



Select the customer. You will see the list of their devices and you will just need to click on the one(s) you want to manage. Then, it will be the same principle as described above.