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IoT in a box instructions Version 1.1	B	07 December 2020	<i>Name/Signature: S. Davodeau</i>	<i>Name/Signature: S. Goulette</i>

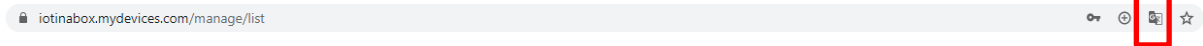
Introduction

IoT in a box is by Mydevices. This corporate solution offers many advantages, the main points of which are:

1. Customer Service by Mydevices
2. A more streamlined interface
3. A more visual, "map" interface is available
4. Optimal data management (data download and graphical display)
5. Advanced alerts, including the addition of a 'no communication' alert.
6. Managing rights of users of the solution. The interface consists of two entities, the [company](#) and the [site](#). The former thoroughly compartmentalizes the data, while the latter compartmentalizes the alerts. Scrutiny rights can be assigned to a [site](#) or a [company](#).
7. Integration of the solution into other IoT interfaces. Data can actually be redirected to platforms such as: Microsoft, Google and Amazon.

Language

IoT in a box does not currently offer languages other than English. However, there is the Google Translate web page (Chrome browser native plug-in).



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Interfaces of the latest data

Dashboard

The dashboard displays data for two entities: 'Compte client test' and 'Sales team'. Each entity has several sensor tiles showing real-time data such as Temperature, WiFi Status, System, Acquisition Period, Memory, Conductivity, and Salinity. A menu on the right side is numbered 1 through 7, corresponding to the numbered list below. Annotations explain that black text in the tiles refers to the AquaMod name and gray text refers to the sensor type.

Black: Name of the AquaMod that can be edited in settings

Gray: Type of sensor linked to AquaMod

1. To access the alerts configuration of this [site](#)
2. To access the "Map" interface of this [company](#)
3. To access this [company's](#) Report
4. To access the Integration pane for this [company](#)
5. To add a Gateway to this [site](#)
6. To add an Aquamod to this [site](#)
7. To add a contact that can view/modify this [company's](#) site(s)

An annotation points to the 'List' button in the top left corner of the application header, indicating it is used to choose the default page.

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Map

Displays the available maps (satellite, or an imported plan, etc.)

To add a plan

A sensor with a detected alert

Displays all the devices in the company

A sensor configured to display a point

A sensor configured to display its parameters

Access to the sensor parameters in the "map" interface.

All the latest values of the sensor are displayed when clicked on

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If you want a "point" display

To choose the settings to be

To configure a "Data on Map" display

Two parameters will be displayed

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Alerts

Alerts are compartmentalized by [site](#). They are managed on a site-by-site basis, so then the same alert can be applied to all devices at the same site.

To access click on the **1** as seen in the image displaying the Dashboard.

Button to create a new alarm

Pencil to edit an existing alarm

The alarm is currently deactivated, it can be activated by clicking here

Choice of the "main" sensor from the sensors at this [site](#)

Choice of the parameter on which to apply the alert.

Name of this alert.

More detailed rules...

To add contacts notified during the alert

Other Aquamod, for whom this alert should also apply

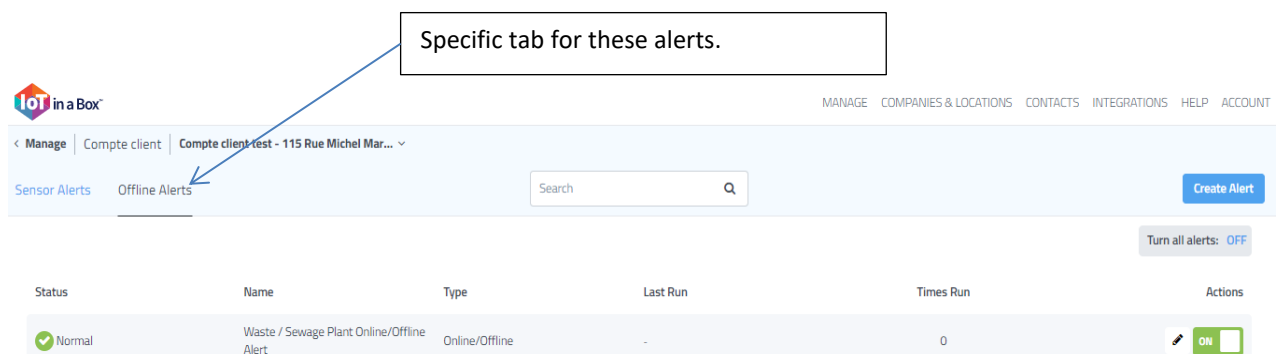
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Off-line

There is a special type of alert to indicate that the sensor has no data. This alert is extremely convenient and is required for virtually any sensor. This alert detects a problem on the AquaMod (battery?), waves (change no longer enabling the correct transmission of LoraWan waves) or gateway.

It is therefore advisable to set the alert to 2.5 times the transmission interval. This prevents an alert for device handling, or any other exceptional event that prevented the signal from being transmitted properly.

Since this alert is entirely sensor independent, it has been separated from other alerts.



Apart from this specific tab, its creation, modification and deletion are similar to other alerts.

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Reports

The reports are common to all **sites** in a **company**. To access it, you will need to click on the **2** in the menu of one of the **company's sites**.

Reports are sent by email to the "recipients". The report, in PDF format, will contain all the information from all selected sensors, over the selected interval.

Although there are several reports, the "Summary report," is the one to be given preference.

Schedule Reports

REPORTS: **Summary Report** (dropdown) LOCATIONS: **Compte client test - 115 Rue Michel Marion, Caudan, 56850, ...** (dropdown) REPORT NAME: **Compte client test Summary Report**

Frequency

Send Report: (dropdown)

Custom Message:

Devices & Reading Times

Choose Devices: (dropdown)

Recipients [Add Recipient](#)

sam dav	samuel.davodeau@aqualabo.fr	
Aqualabo R&D	aquaconnect@aqualabo.fr	

Data from an Aquamod

To access the various data specific to an AquaMod, click on its entry in the dashboard.

Aqualabo

Compte client

Compte client test 115 Rue Michel Marion, Caudan, 56850, France

Waste / Sewage Plant CAE 70b3d5499d16c23c	Temperature: 15.4°C	WiFi Status: Off	System: OK	Acquisition Period (Min.): 15.0min(s)	Memory: 65%	Conductivity: 0.0µS/cm	Salinity: 0.0g/kg	12/03/2020 06:20:38 PM UTC+1		100.0%
Waste / Sewage Plant CTZN 70b3d54992f56ab2	Temperature: 16.2°C	WiFi Status: Off	System: OK	Acquisition Period (Min.): 15.0min(s)	Memory: 65%	Conductivity: 0.0µS/cm	Salinity: 0.0g/kg	12/03/2020 06:18:45 PM UTC+1		100.0%

Sales team

Sales team 115 Rue Michel Marion, Caudan, 56850, France

Outlet ORP 70b3d5499d16c23c	Temperature: 15.4°C	WiFi Status: Off	System: OK	Acquisition Period (Min.): 15.0min(s)	Memory: 65%	pH: 4.5pH	Redox: 391 mV	12/03/2020 06:11:31 PM UTC+1		100.0%
Pool 1 PH/EHT 70b3d5499b3619fa	Temperature: 59.9°F	WiFi Status: Off	System: OK	Acquisition Period (Min.): 15.0min(s)	Memory: 66%	pH: 4.5pH	Redox: 391 mV	12/03/2020 06:11:31 PM UTC+1		100.0%

Click on the input line to access the menus dedicated to this Aquamod

Alerts
 Sensor Map
 Reports
 Integrations
 + Add Gateway
 + Add Device
 + Add Contact

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Measurement log

This is the first tab after clicking on an AquaMod

The summary banner can be displayed

The amount of data to be displayed

Each line represents receipt of a data frame.

Date	Reading	Signal	Battery
12/07/2020 02:43:27 PM UTC+1	Temperature: 59.0°F Suspended Solid: 5 Turbidity: 1115.0FAU Sludge Blanket: 79.33%	-70 dBm	100%
12/07/2020 02:28:30 PM UTC+1	Temperature: 59.0°F Suspended Solid: 4 Turbidity: 1112.2FAU Sludge Blanket: 79.37%	-66 dBm	100%

Notifications

This tab allows you to view all the alerts that this sensor has been subject to.

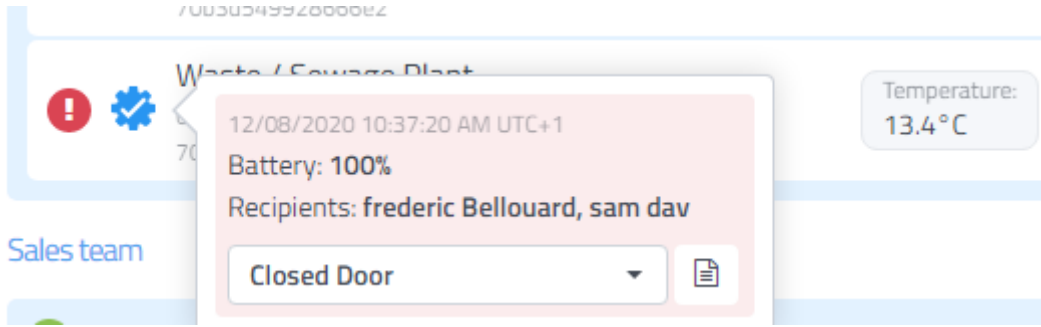
A problem solving procedure can also be added to an alert, in order to notify another worker, of the action that has been taken.

The action taken to correct the error can be chosen. This action will then be visible on the dashboard.

Each line represents a triggered alert.

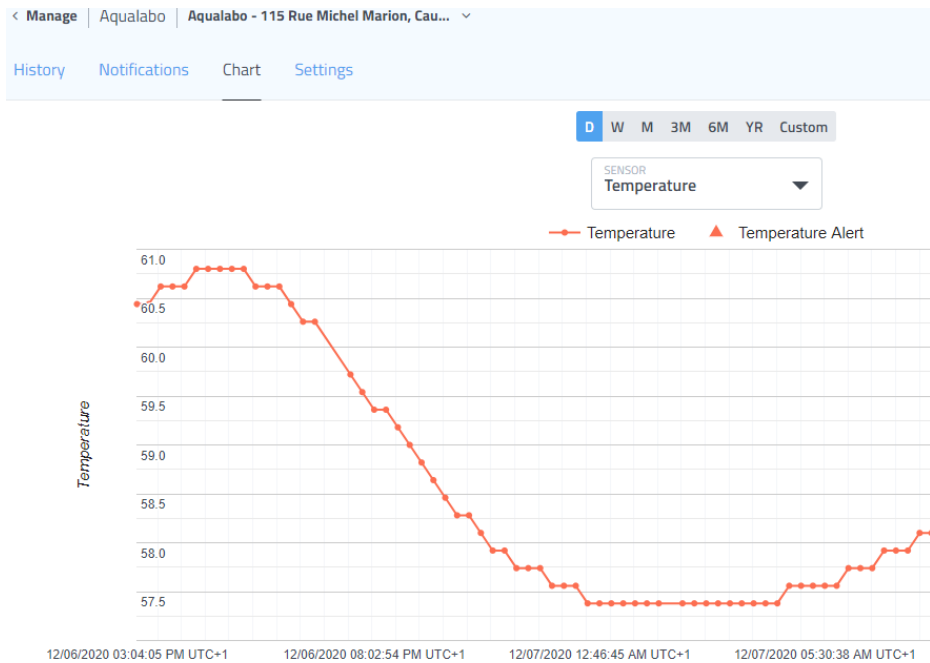
Date	Type	Reading	Recipients	Action Taken	Notes	Acknowledged
12/08/2020 10:37:20 AM UTC+1	Battery	Battery: 100%	frederic Bellouard, sam dav	Choose Corrective Action		12/08/2020 10:37:20 AM UTC+1
11/16/2020 03:56:07 PM UTC+1	Battery	Battery: 100%		Called 911		11/16/2020 03:56:07 PM UTC+1
11/16/2020 03:41:11 PM UTC+1	Battery	Battery: 100%		Called Maintenance		11/16/2020 03:41:11 PM UTC+1
11/16/2020 03:26:14 PM UTC+1	Battery	Battery: 100%		Closed Door		11/16/2020 03:26:14 PM UTC+1
11/16/2020 03:26:14 PM UTC+1	Battery	Battery: 100%		Diffused situation		11/16/2020 03:26:14 PM UTC+1
11/16/2020 03:26:14 PM UTC+1	Battery	Battery: 100%		Choose Corrective Action		11/16/2020 03:26:14 PM UTC+1

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Graphics

Tab to view the data in a graphical format.



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Configuration

< Manage | Aqualabo | Aqualabo - 115 Rue Michel Marion, Cau... | Settings

History | Notifications | Chart | Settings

Name of the AquaMod

Device Name: Aquamod - 270B

If the AquaMod is replace, but the new one has the same type of Ponsel sensor

Device ID: 70b3d5499f28270b Replace Device

Type: MESS

Device Use: Waste / Sewage Plant

Chosen parameters "kept" by the interface. As the note on the left indicates, the data will no longer be available in all tabs.

Readings Displayed:

Unchecked readings will be hidden from Manage / Device Screen, Device details, Sensor Maps and Reports. Alerts for device readings unchecked will be deleted for this device.

- Temperature
- WiFi Status
- System
- Acquisition Period (Min.)
- Memory
- Suspended Solid
- Turbidity
- Sludge Blanket

Choice of the unit displayed for the temperature.

Unit: UNIT °F

Location: Aqualabo - 115 Rue Michel Marion

To delete all data from this AquaMod. It can, however, be added again after having deleted it

Remove Device: Remove Device This action cannot be undone

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Company and Site

Companies and sites are managed in the dedicated tab.

Rights management

One of the major advantages of IoT compared to Cayenne is its management of user rights.

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