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#### 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).

iotinabox.mydevices.com/manage/list

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## Interfaces of the latest data

#### Dashboard

	A "Company"		Latest values sent by th	he AquaMod.	
Aqualabo		Rue Michel Marion, Caudan, 56850, France	The displayed tiles can configured.	be	Menu v
🕑 Соп	npte client test	115 Rue Michel Marion, Caudan, 56850, France	V		Menu 🗸
0	Waste / Sewage Plant C4E 70b3d549928666e2		sition Period (Min.): Memory: Conductivity: Salinity: min(s) 65% 0.0µS/cm 0.0g/kg	12/03/2020 06:20:38 PM UTC+1	.11 100.0%
0	Waste / Sewage Plant CTZN 70b3d54992f56eb2		sition Period (Min.): Memory: Conductivity: Salinity: min(s) 65% 0.0µS/cm 0.0g/kg	12/03/2020 06:18:45 PM UTC+1	
ales team	1				
📀 Sale	es team	115 Rue Michel Marion, Caudan, Bretagne 56850	I, France	0	Menu ~
0	Outlet ORP 70b3d5499d16c23c	Temperature: Acquisition Period (Min.): Mem 15.7°C 15.0min(s) 67%	ry: Redox: 243 mV	12/03/202 05:11:2 PM:0TC+1 2	Alerts
0	Pool 1 PHEHT 70b3d5499b3619fa		sition Period (Min.): Memory: pH: Redox: min(s) 66% 4.5pH 391 mV	12/03/2020 11 3+1	<ul> <li>Reports</li> <li>Integrations</li> </ul>
		<		5-	+ Add Gateway
	Black: Name of	he AquaMod that		6	Add Device     O Add Contact
	can be edited in	settings		Ŭ	
	Gray: Type of se AquaMod	nsor linked to			

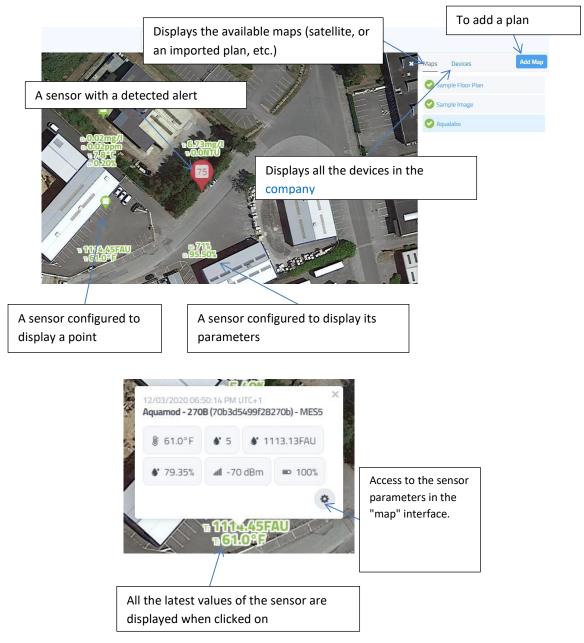
- 1. To access the alerts configuration of this site
- 2. To access the "Map" interface of this company
- 3. To access this company's Report
- 4. To access the Integration pane for this company
- 5. To add a Gateway to this site
- 6. To add an Aquamod to this site
- 7. To add a contact that can view/modify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

	To choose the default page							
<b>(</b>	in a Bpx;			MANAGE	COMPANIES & LOCATIONS	CONTACTS	INTEGRATIONS	HELP ACCOUNT
Lis	× .	Search	٩					

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#### Мар



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r			se the settings to be
Customize Marker If you want a "point	nt" display	Pin + Icon Sensor Data Cu	istem Image
Choose Marker Rype Pin + Icon Sensor Data Custom Image		Choose Data Deint(s)	sum mage
Pin Style & Color To configure a "	Data on Map" display	Temperature, Turbidity	-
● Style 1           Preview	·····	Acquisition Period (Min.) Memory	Two parameters will be displayed
Good Alert		Sludge Blanket Suspended Solid System	uispiayeu
Animation & Sound		Temperature Turbidity	*
Animate marker with sound (on alert) No animation or sound		WiFi Status Animation & Sound	
Apply Settings to Other Devices: Devices		Animate marker (on alert) Animate marker with sound (on a No animation or sound	alert)
Cancel Save		Apply Settings to Other Devices:	

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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 clicl	k on the	1 as seen	in the i	mage di	splaying the	e Dashbo	ard.		
			Buttor	n to creat	te a new alar	m			
< Manage Compte client	Compte client test -	- 115 Rue Michel Mar ~							
Device Alerts				Search	Q			Creat	te Alert
								Turn all alerts	: ON
Status	Name		Туре		Last Run		Times Run	Ac	tions
Normal	Waste	/ Sewage Plant Battery Alert	Battery		11/16/2020 03:56:07 PM	UTC+1	5	> •	OFF
	Р	encil to edit an	existin	g alarm					
							alarm is currently c ctivated by clicking		an
	of the "ma at this site	in" sensor from	n the		oice of the paper of the paper of the paper of the paper of the second sec		on which to		
DEVICE Waste / Sewage Plant	(70b3d54992f56	eb2) - CTZN 🛛 🔻	ALERT TYPE Salinity		Ľ	•	ALERT NAME Waste / Sewage Plant Salinity	/ Alert	
Conditions						Nan	ne of this alert.		
Threshold above:			g	/kg	•				
Threshold below:			g	/kg	•	Mor	re detailed rules		
Reading(s) in a row before	alert is sent:	1							]
Rules (optional)	add conta	acts notified du	uring the	e alert	ed any rules. Add a rule? (o	optional)			Add Rule
Notify Contact								Add F	Recipient
sam dav			samuel.davode	eau@aqualabo.fr		0	1786504820		ø
Aqualabo R&D			aquaconnect@	)aqualabo.fr		+	33786504820		~
Apply settings to other de	evices	During				1	quamod, for whom also apply	n this alert	
Choose Devices:		Devices	-		•				

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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.

		Specific ta	b for these alerts.				
in a Box				MANAGE	COMPANIES & LOCATIONS	CONTACTS INTEGRATIO	NS HELP ACCOUNT
< Manage Con	npte client   Compte client test - 115 Rue Michel Mar >						
Sensor Alerts	Offline Alerts		Search Q				Create Alert
						т	urn all alerts: OFF
Status	Name	Туре	Last Run		Times Run		Actions
🕑 Normal	Waste / Sewage Plant Online/Of Alert	fline Online/Offline	-		0		

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.

Schedule Reports	Although there are several reports, the "Summary report," is the one to be given preference.	
REPORTS Summary Report	LOCATIONS     Compte client test - 115 Rue Michel Marion, Caudan, 56850,	
Frequency		
Send Report:	Please choose	
Custom Message:		
Devices & Reading Times		
Choose Devices:	All devices	
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			
🕕 Aqı	ualabo	115 Rue Michel Marion, Caudan, 56850, France	Menu ~
Compte cli	ient		
🕑 Cor	mpte client test	115 Rue Michel Marion, Caudan, 56850, France	Menu ~
0	Waste / Sewage Plant C4E 70b3d549928666c2	Temperature:         WHI Status:         System:         Acquisition Period (Min.)         Memory:         Conductivity:         Salinity:         12/03/2020 06:20:38 PM UTC+1           15.4 °C         Off         OK         15.0min(s)         65%         0.0g/kg         12/03/2020 06:20:38 PM UTC+1	.11 100.0%
0	Waste / Sewage Plant CTZN 70b3d54992f56eb2	Temperature:         WiFI Status:         System:         Acculation Period (Min.):         Memory:         Conductivity:         Salinity:         12/03/2020 06 18:45 PM UTC+1           16.2°C         Off         OK         15.0min(s)         65%         0.0µ/s/cm         0.0µ/s/cm         12/03/2020 06 18:45 PM UTC+1	.11 100.0%
Sales tean	n		
	n les team	<sup>115 Ree</sup> Click on the input line to access the	Menu
		115 Rue 1 Click on the input line to access the menus dedicated to this Aquamod	Menu 🗸 Alerts 🗄 Sensor Map
	Outlet	Click on the input line to access the	Alerts
	Outlet ORP 70b3d5K98d16c23c Pool 1 PHEHT	Temperature: WHI Status: System: Acquisition Period Min.3 Memory: PH Redox:	Alerts
	Outlet ORP 70b3d5K98d16c23c Pool 1 PHEHT	Temperature: WHI Status: System: Acquisition Period Min.3 Memory: PH Redox:	t Sensor Map Reports & Integrations

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#### **Measurement log**

This is the first tab after clicking on an AquaMod

story Notifications C	hart Settings			The summary ban	ner can be displ	ayed
	Jeren Bo	D W M 3M 6M	A YR Custom Down	nload		
		Si Si	ummary ~			
Readings: 93		Alerts: 0		Corrective Action O act	ions   0 notes	
Min		Max		Average		
Temperature 57.4°F	Suspended Solid 4	Temperature 60.8°F	Suspended Solid 5	The amount of data	a to be displayed	I
Turbidity 1107.4FAU	Sludge Blanket 79.11%	Turbidity 1129.6FAU	Sludge Blanket 79.44%	1114.5FAU	Sludge Blanket 79.33%	
Date	Reading				Signal	Battery
12/07/2020 02:43:27 PM UTC+1	Temperature: Sus 59.0°F 5		lge Blanket: 33%		-70 dBm	100%
12/07/2020 02:28:30 PM UTC+1	Temperature: Sus 59.0°F 4		dge Blanket: 37%		-66 dBm	100%
	Each line rep frame.	resents receipt of	a data			

#### **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.

ory Notifications	Chart Settings		D W M 3M	6M YR Custom	ble on the dashboard.	
				nmary ~		
Notifications Sent: 2			Alerts: 6		Corrective Action 0 actions   0 notes	
Date	Туре	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	• B	12/08/2020 10:37:20 AM UTC+1
1/16/2020 03:56:07 PM UTC+1	Battery	Battery: 100%		None Called 911	/	11/16/2020 03:56:07 PM UTC+1
1/16/2020 03:41:11 PM UTC+1	Battery	Battery: 100%		Called Maintenance Closed Door	/	11/16/2020 03:41:11 PM UTC+1
1/16/2020 03:26:14 PM UTC+1	Battery	Battery: 100%		Diffused situation Choose Corrective Action	<ul> <li>✓</li> <li>✓</li> </ul>	11/16/2020 03:26:14 PM UTC+1
			$\leftarrow$			

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7	ND3024237800067	
V	Jacta / Cowage Dlant	Temperature:
0 😵 🤇	12/08/2020 10:37:20 AM UTC+1	13.4°C
70	Battery: 100%	
	Recipients: frederic Bellouard, sam dav	
Sales team	Closed Door 🔹 🖹	

### Graphics

Tab to view the data in a graphical format.



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Manage Aqualabo Aqualabo	o - 115 Rue Michel Marion, Cau				
History Notifications Cha	art Settings	Name of the AquaMod			
Device Name:	Aguamod - 270B	If the AquaMod is replace, but the new one has the same type of Ponsel sensor			
Device ID:	70b3d5499f28270b	Replace Device			
Түре:	MES5	Chosen parameters "kept" by the interface. As the note on the left indicates, the data will no longer be			
Device Use:	Waste / Sewage Plant	available in all tabs.			
	Temperature				
	WiFi Status				
Readings Displayed: Unchecked readings will be	System				
hidden from Manage / Device Screen, Device details, Sensor	□ Acquisition Period (Min.)				
Maps and Reports. Alerts for device readings	Memory				
unchecked will be deleted for this device.	Suspended Solid				
	✓ Turbidity	Choice of the unit displayed for the			
	Sludge Blanket	temperature.			
Unit:	UNIT F				
Location:	Aqualabo - 115 Rue Miche	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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#### Configuration



## **Company and Site**

Companies and sites are managed in the dedicated tab.

	Tab displayed	Create a company
in a Box"		MANAGE COMPANIES & LOCATIONS CONTACTS INTEGRATIONS HELP ACCOUNT
Companies & Locations	Search	Q Add Company
Aqualabo	A company	Add a site to a company
Aqualabo	115 Rue Michel Marion, Caudan, 56850, France	/
Compte client	A site	Add Location
Compte client test	115 Rue Michel Marion, Caudan, 56850, France	1
Sales team		Add Location
Sales team	115 Rue Michel Marion, Caudan, Bretagne 56850, France	1

# **Rights management**

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

		Tab displayed				
in a Box <sup>-</sup> Contacts	In order to add a contact. If the contact does not exist in the IoT in a box database. The e-mail address entered will receive an e-mail indicating the steps to follow to create an IoT account			AGE COMPANIES & LOCATIONS CONTACTS INTEGRATIONS HELP ACCOUNT		
Name	Contact Info	Shared Locations			Actions	
Alain Penault	apenault@mydevices.com +33607411420	Aqualabo - 115 Rue Michel Marion, Caudan, 56850, France	Can View			
Aqualabo R&D	aquaconnect@aqualabo.fr +33786504820	Aqualabo - 115 Rue Michel Marion, Caudan, 56850, France Compte client test - 115 Rue Michel Marion, Caudan, 56850, Sales team - 115 Rue Michel Marion, Caudan, Bretagne 568	Admin Admin Admin	A site has been assigned		
Brent Meriwet	her bmeriwether@mydevices.com	Aqualabo - 115 Rue Michel Marion, Caudan, 56850, France	Can Edit	to this contact, it has		
frederic Bellou	Ard Specific rights can be assigned to each site for	Aqualabo - 115 Rue Michel Marion, Caudan, 56850, France	Can View	write permission. (alerts, add/remove Aquamod,		
Jesse Cruz	a user.	Aqualabo - 115 Rue Michel Marion, Caudan, 56850, France	Can Edit	etc.)	ø	
Sales Team Aq	ualabo	Sales team - 115 Rue Michel Marion, Caudan, Bretagne 568	Can Edit	K	600	
sam dav	samuel.davodeau@aqualabo.fr 0786504820	Compte client test - 115 Rue Michel Marion, Caudan, 56850,	Can Edit		ø	

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