# INPRO CLOUD PLATFORM

## INPRO IOT Internet of things SMART INDUSTRY SOLUTIONS



# **USER MANUAL**



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### 1. WHAT IS INPRO CLOUD?

Inpro presents its **Inpro Cloud** platform. A solution for the remote management and monitoring of device and sensor networks.



#### **Characteristics:**

- SaaS (software as a service) service mode.
- Multilanguage platform: Spanish, English, German, French and German.
- Multi-device access from any device: PC, Tablet, Smartphone.
- Multi-user: allows you to define resource distribution levels.
- Device monitoring.
- Data visualization.
- Alerts and notification configuration.

#### **Technical requirements**

- Web browser: Chrome, Firefox, IE8 or higher.





## 2. ACCESS TO THE INPRO CLOUD PLATFORM

The **Inpro Cloud** platform is accessible from the web using any device with access to a web browser. To access it we just need to go to the following url address in our browser: <u>https://inprocloud.com</u> and once we have accessed the platform, it will ask us to authenticate us with username and password.

#### 2.1. LOGIN

PTo log in it is necessary to enter the username and password of your account. By clicking on the "*Log in*" button, if the data entered are correct, you will be logged in to the platform.

Sign in to your account	
e demoUser	
A	۲
Remember me	
Log in	
Forgot password?	
Do not have an account?	
Create an account	

If this is the first time we connect, we must create an account by clicking on the "*Create an account*" button:

Sign up to start building IoT projects					
Pick a username					
@ Enter your email					
A Password					
Sign Up					
Back to Login					
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We must enter a username (without spaces or special characters, except for \_), an e-mail address and a password (must contain at least 8 characters). By clicking on "*Sign up*", the account will be created, and we will be notified by an email that we must accept in order to activate the account definitively.

#### 2.2. DEVICE REGISTRATION WITH ACTIVATION CODE

If you do not have access to the QR code, and your organization has provided you with an activation code, once you have logged in to the platform, by clicking on the icon  $\bigoplus$  (located in the upper header, see section 3.1), the following form will appear:

Claim Resources		
1 Claim	2 Review	3 Complete
③ Claim Code		
32B92101F60123E1		
		Cancel Next

We must enter the activation code in the "*Claim Code*" field. The following steps arecommon to the QR method.

#### 2.3. QR-CODED DEVICE REGISTRATION

To register the device on the platform it is necessary to read the QR on the product box with the cell phone camera. The web browser will open with the address of the platform and you will be asked to log in by clicking on the "*Log in*" button or, if you do not have an account, create one by clicking on "*Create an account*" (see section 2.1).







Once logged in, the registration form with the activation code will be loaded:

÷	→ C Sinproclo	ud.com/console/claim/x55D88LM001177tbxxA90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	orqui	🗉 🖻 demotiser workspace 👻 🏵	demoUser+
	Devices	Claim > x55D88LM001177tbxAA90	
Ø	Dashboards	Claim Resources	
	Assets >		
Account		Claim	(3) Complete
-		① Claim Code	
*		x55D88LM001177ttxxAA90	
0	Support >	Cancel Next	
		INPRO, Research and Development SL © 2024 - ( support@inprocloud.com )	t

To proceed with the process, click on "*Next*", and the following screen will show the resources to be registered for information purposes:

← → C 😅 inprod	loud.com/console/claim/x55D88LM001177tbx/AA90	© ☆ 🔕 :
inpro	E 🖻 demoUser workspace 👻 🏵	demoUser+
🗬 Devices	Claim > x55D8LM001177tboAA90	(a) Complete
Dashboards Assets >	Claim     Claim     Claim     Claim	() complete
Account	Device 046adc134e38422ea4fc4d69af5bfe5d 76bf406be13e45eb8a757dcefa25bf9	
<ul><li>Settings</li><li>Support &gt;</li></ul>	Bucket front_data	
	front_alarms	
	map_es table_es	
	Target Project     demol/ser	v
	Cancel Previous Next	
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By clicking again on "*Next*", if everything has gone correctly, the resource registration process will be finished.

÷	→ C Sinproc	cloud.com/console/claim/x55D88LM001177tbxAA90	∞ ☆ 🙆 :
	orqui	🗉 🖻 demoUser workspace 👻 🏵	demoUser+ 🕥
	Devices	Claim > x55D88LM001177tbxAA90	
Ð	Dashboards	Claim Resources	-
	Assets >	Sum Resources	
		⊘ Claim ⊘ Review	3 Complete
•			
•			
•	Support >		
		Claim process completed!	
		Additional configuration may be required to complete the setup.	
		Device	
		Claim Again Done	
			_
		INPRO, Research and Development SL © 2024 - ( support@inprocloud.com )	T

Finally, click on "*Done*" to finish the process and the next step is to calibrate the device.

#### 2.4. DEVICE CALIBRATION

La calibración del dispositivo es necesaria para poder recibir datos fiables y correctos. En caso de no calibrarlo, los datos que el dispositivo envía no son correctos.

To calibrate the device, go to "*Devices*" in the side menu and click on the device to be calibrated:





On the device dashboard, click on the button with the gear icon:



In the calibration form we have to enter the following information:

- Tank name: used to identify the device.
- **Type:** can be linear or irregular. For example, a rectangular tank is of linear type, and a cylindrical tank is of irregular type. In case the irregular type has been chosen, a cm-volume relational table can be added in the form, otherwise the default one is used.
- **Position:** it can be vertical or horizontal.
- Height: tank height in centimeters.
- **Offset:** distance between the sensor and the maximum liquid level.
- Capacity: maximum tank volume in liters.

Sensor calibration			
Sen	isor		
		Offset Heigi	nt
Complete all fields, this information the sensor is calibrated, any change information transmitted, starting wi device.	is necessary to cali in height or offset t th the second comi	brate the sensor. ( will be effective on munication from t	the he
Name			
Laboratory tank 2			
* Type Linear			
* Position			
Horizontal			
* (i) Height			
160.8		centimeters	
* (j) Offset			
16.5		centimeters	
* ① Capacity			
5000		liters	
			_
		Cancel	ок

Once the fields have been filled in, by clicking on "*OK*", the information is transferred to the system and your configuration is saved.





#### 2.5. ALARM CONFIGURATION

In order to have email notifications, it is necessary to configure the device alarms. The settings can be found in the "*Alarms*" tab:

← → C 😂 inprocle	bud.com/console/devices/76bf406be13e45eb88a757dcefa25bf9/dashboard	소 다 루 ( ) :
orqni	≅ 😂 demoüser workspace ▾ ⊙	demoUser+ 🕥
📌 Devices	Devices > 76bf406be13e45eb88a757dcefa25bf9 > Dashboard	Dashboard
Dashboards	Information	
📃 Assets >	🛛 Data 🔹 Alarms 🗧 🚺	
Account Profile Settings Support	1-Alarm 1-Settings   0 2     2-Alarm   0    0   0	
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Click on the gear icon to open the configuration form:

Yes		$\sim$
fenabled, the device	will generate the alarm.	
* Туре		
Low limit		$\sim$
* Threshold (%) 10 Enter the setpoint the	triggers the alarm.	
* Threshold (%) 10 Enter the setpoint th * Notification	triggers the alarm.	
* Threshold (%) 10 Enter the setpoint th * Notification Yes	: triggers the alarm.	~
Threshold (%)     10     Enter the setpoint th     Notification     Yes     if enabled, at least or	triggers the alarm. valid email is required.	~
Threshold (%)     10     Enter the setpoint th     Notification     Yes     if enabled, at least or     ① Emails	triggers the alarm. valid email is required.	~
* Threshold (%) 10 Enter the setpoint the	triggers the alarm.	
hreshold (%) 0 er the setpoint th otification 25 habled, at least or D Emails	triggers the alarm. valid email is required.	~

The alarms can be configured as high or low limit, as needed, configure the limit (setpoint) over which we want the alarm to be generated and can also be notified, enabling first the notification and as a last step adding at least one valid email. To save the configuration, click on the "*OK*" button.

The first 3 alarms are generated in the device, i.e. every 15 minutes they check the measurements to see if the limits have been exceeded. If they have been exceeded, they send the alarm to the server and it will be displayed on the corresponding led, in addition to the summary table.

The fourth alarm can be configured for the device battery. This alarm is checked at every communication of the device with the server.





# 3. FUNCIONALITIES

#### 3.1. MAIN SCREEN

Once logged in, the workspace that will be displayed is as follows:

÷	→ C in	proclou	d.com/console/devices				©- ☆	=J 🔕 :
1	orqni		🗉 🖻 demoUser workspace 🔹 🏵 3				de	emoUser•
•	Devices		Devices					
23	Dashboards		C Refresh				Q Search Device	
	Assets	2	Device	Description	Protocol	Last Connection	Туре	Group
Accourt			Laboratory tank 2     76bf406be13e45eb88a757dcefa25bf9		А НТТР	3 24m		
*	Settings		Laboratory tank 1 046adc134e38422ea4fc4d69af5bfe5d			() 1h		
0	Support	•	Showing 2 devices					
				2				
				_				
			INPRO, Research and Development SL $\ensuremath{\mathbb SL}$ @ 2024 - ( support@inprocloud.	com )				Ť

There are 3 zones, as shown in the image:

- 1- **Side menu**: the options to which you have access are shown.
- 2- **Content**: shows the content of the selected option (explained in the side menu section).
- 3- Header: shows other functionalities such as resource registration.





#### 3.2. SIDE MENU

#### **Devices**

When this option is selected, the devices to which the user has access are loaded. Clicking on the device will load the dashboard with the device data:



Data Tab



**Alarms Tab** 





#### <u>Dashboards</u>

Selecting this option will load the dashboards to which the user has access. By default, the map and table boards are enabled.

← → C 😋 inproclo	ud.com/console/dashboards			☆ ①   팩 🔕 🗄
origin	🗄 🖻 demoUser workspace 👻 🕀			demoUser• 风
📌 Devices	Dashboards			
🙆 Dashboards	C. Refresh			Q. Search Dashboard
🗄 Assets >	Dashboard	Description	Created	Modified
Account	Inventory table	Inventory of devices and their data	06/05/2024, 11:56	14m
Profile	Devices map	Location of devices and their data	06/05/2024, 11:51	14m
Support >	Showing 2 dashboards			
C support				
	INPRO, Research and Development SL © 2024 - ( supp	iort@inproctoua.com )		I

General



Map Board





By clicking on 😰 , a new tab will open in the browser with the device's dashboards, giving access to all the information.

The icons are configured, by default, taking into account the following percentages:

- Volume below 35% the icon changes to 🚔 indicating low volume.
- Volume between 35% and 70%, the icon eindicates stable volume.
- Volume greater than 70%, the icon indicates high volume.



Map board with extra information

→ C º= inpro	ocloud.com/console/dashboards/tab	le_en			☆ ひ	I =1 🚺
inpro	🗉 🖻 demoUser we	orkspace 👻 🕀			d	lemoUser• 🌔
	Inventory table					
Dashboards	Date	Device	Volume (liters)	💠 🔍 Available (%)	💠 🔍 🛛 Battery (V)	¢ 0
	14/8/2024, 6:00:00	Laboratory tank 1	100	2,5	5,1	
	14/8/2024, 6:00:00	Laboratory tank 2	1000	20	5,5	
Support >						
	INPRO Research and Developm	ent SL © 2024 - (support@inprocloud.com)				

Inventory table



#### <u>Assets</u>

By selecting this option, the assets and their location are shown on a map, using a range of colors that reflect the device's connection to the platform, i.e. red = disconnected and green = connected.



#### <u>Profile</u>

By selecting this option, the user profile information will be loaded. A profile picture, name, URL, company and location can be configured.

÷	→ C 😋 inprod	oud.com/console/profile		ब्द 🖈 🖘 😣 :
		🗉 🖻 demoUser works	eace - O	demoUser+ 🔘
	Devices	Profile		
æ	Dashboards	Luser Profile		
		Profile Picture		
Accou		Homericare		
-	Profile			
*				
•	Support >		Seleccionar archivo Ningún archivo seleccionado	
		Email	demoUser@inprocloud.com	
		Name	Enter your name	
		URL	Enter your personal or company page	
		Company	Enter your company	
		Location	Enter your location	
		Save		
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#### **Configuration**

By selecting this option, the user will be able to change the password, knowing the password (in case of not knowing the password, in the login screen, there is the option "*Forgot password?*").

← → C 😁 inprocle	ud.com/console/account	∞ ☆ ₹ A :
	🗉 🖻 demoUser workspace 🔹 🕑	demoUser-
💜 Devices	Account	
Dashboards	Account Password	
👯 Assets >	Current Password	
	Enter your current password	
🗕 Profile	New Password	
😂 Settings	Enter your new password	
Support >	Repeat Password	
	Repeat your new password	
	Vpdate	
	INPRO, Research and Development SL © 2024 - ( support@inprocloud.com )	t

### 4. SUPPORT

Contact support can be accessed through the device dashboard and under the "*Alarms*" tab.

← → C 🔩 inprocl	oud.com/console/devices/76bf406be13e45eb88a757dcefa25bf9/dashboard	☆ ひ = ⊘ :
noro	E 🖻 demoUser workspace 👻 🕑	demoUser- 闪
🕈 Devices	Devices > 76bf406be13e45eb88a757dcefa25bf9 > Dashboard	Dashboard
Dashboards	Information	
🛛 Assets >	🔁 Data 🏟 Alarms	
Account  Profile  Settings  Support	1-Alarm 1-Settings   2-Alarm 2-Settings   0 0  <	
	INPRO, Research and Development SL © 2024 - (support@inprocloud.com.)	t



By clicking on the support icon, a form will open, which must be filled in by the user explaining the problem:

<ul> <li>Select the type of support</li> </ul>	
Device installation	
* Select an option	
Sensor calibration	
Device installation	
Description of the problem	
This is a test.	
* Answer to	
demo@demodomain.com	
The response to the issue will be sent to the email enter	ed.

Finally, if we click on "*OK*" the information will be sent to the server and a ticket with the query will be created. The user should receive an email confirming that the ticket has been opened.

In case you are unable to log in, please write an email to <u>support@inprocloud.com</u>, explaining the problem you are experiencing.



# INPRO CLOUD PLATFORM



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