

Technical Guide

PROFICLOUD - Digitalização de variáveis e visualização em dashboard



PLCnext Technology 
Designed by PHOENIX CONTACT



PLCnext Control



PLCnext Engineer



PLCnext Store



PLCnext Community

PROFICLOUD - Digitalização de variáveis e visualização em dashboard

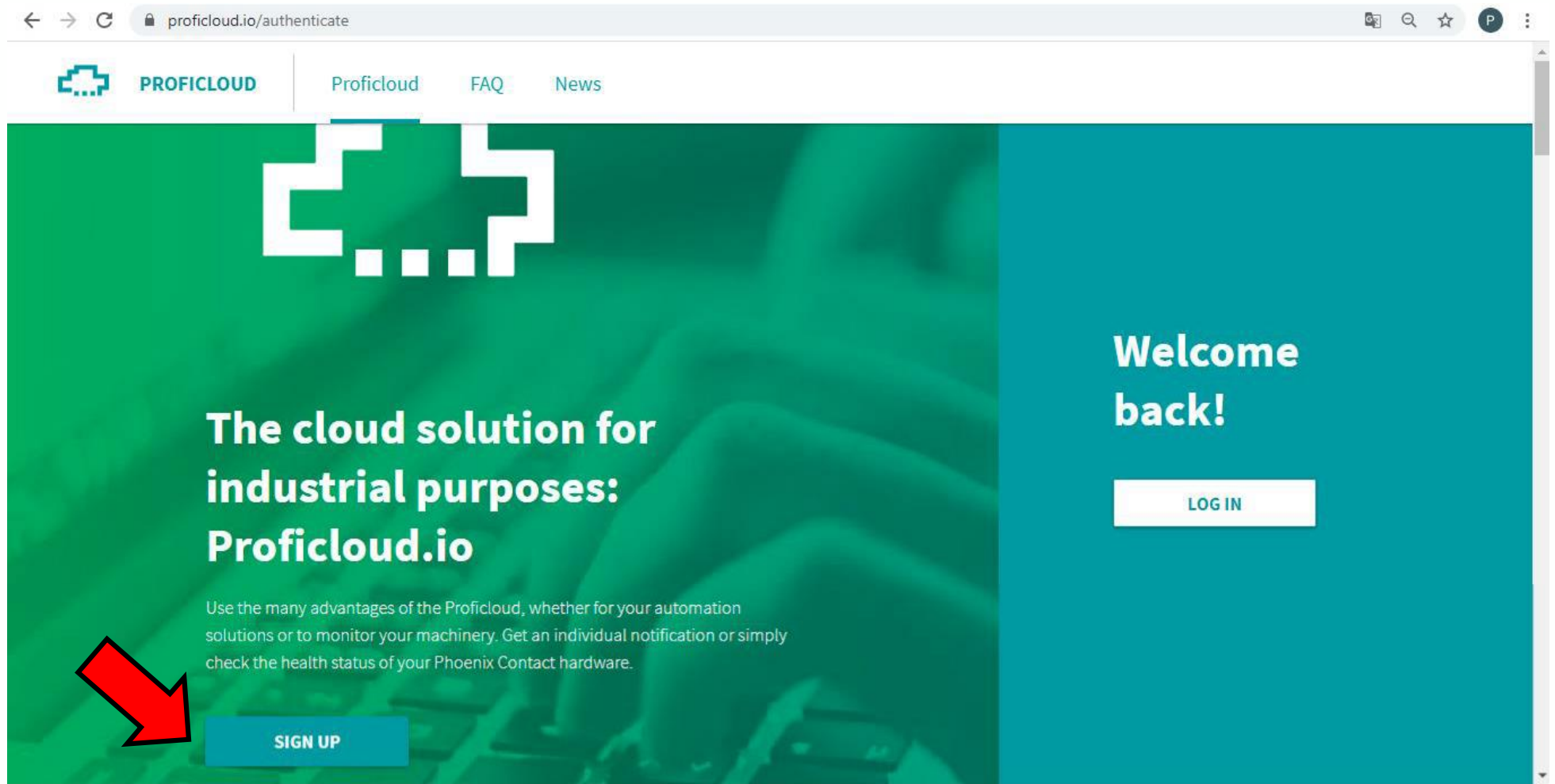
1. Criando conta no proficloud.io da Phoenix Contact
2. Adicionando dispositivo ao **Proficloud**
3. Habilitar permissões de conexão do PLCnext ao **Proficloud**
4. Configurando variáveis a serem digitalizadas em nuvem
5. Dashboard - **Time Series Data Service** do **Proficloud**
6. Visualização de metrics(variáveis) através de plugins de dashabord.

Criando conta no proficloud.io da Phoenix Contact



proficloud.io

Criando conta no proficloud.io da Phoenix Contact



The screenshot shows a web browser window at the URL proficloud.io/authenticate. The page features a green and teal color scheme. On the left, there is a large white pixelated logo of a Phoenix Contact symbol. Below it, the text reads: "The cloud solution for industrial purposes: Proficloud.io". Underneath this, a smaller text block states: "Use the many advantages of the Proficloud, whether for your automation solutions or to monitor your machinery. Get an individual notification or simply check the health status of your Phoenix Contact hardware." A blue button labeled "SIGN UP" is positioned below this text, and a red arrow points to it from the left. On the right side of the page, there is a teal background with the text "Welcome back!" and a white button labeled "LOGIN". The top navigation bar includes the Proficloud logo and links for "Proficloud", "FAQ", and "News".

Criando conta no proficloud.io da Phoenix Contact

Registration

Discover the Proficloud with a free account.

Email

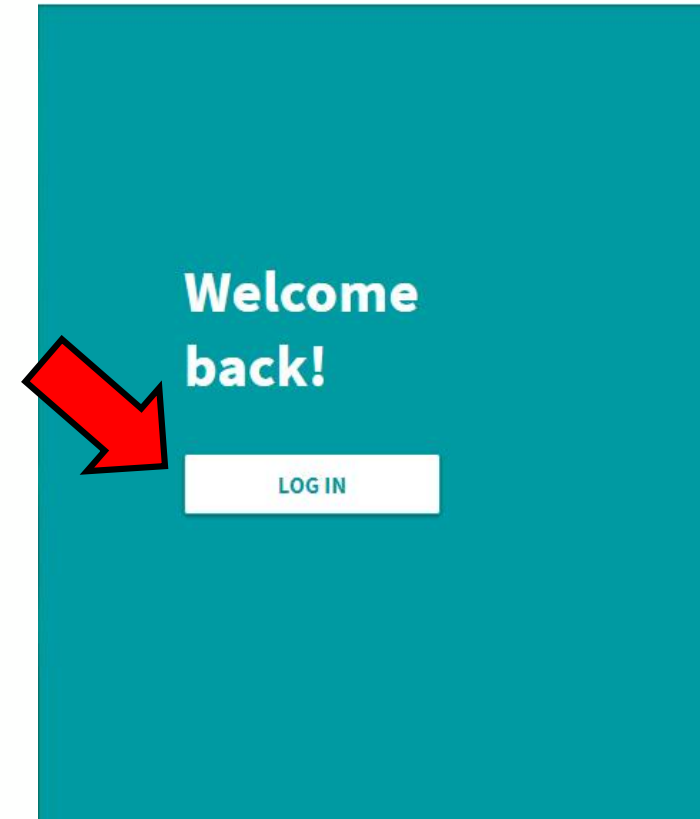
Password

Use at least 8 characters, upper & lowercase letters, number(s) and special character(s).

Confirm password

[« Back to Login](#)

REGISTER



Adicionando dispositivo ao Proficloud

PROFICLOUD

Device Management Service

Device Overview

ADD DEVICE **STATUS**

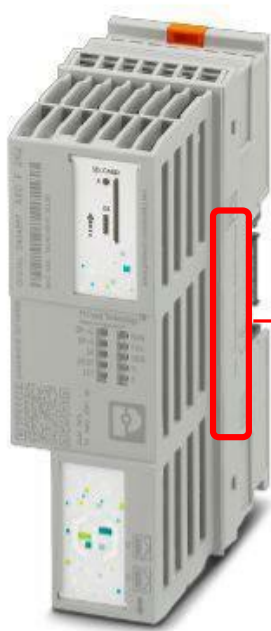
AXC_F_2152 Online **AXC F 2152**

Map showing South America (Uruguay, Rio Grande do Sul, Santa Catarina, Paraná) with a location pin on Porto Alegre.

build 498 | Contact | Site notice | Data privacy | 2020 © Proficloud. All rights reserved. | Kartendaten © 2021 Google | Nutzungsbedingungen


Adicionando dispositivo ao Proficloud


Importante que o CLP esteja com o firmware atualizado para a versão 2021





New Device


Enter the UUID of your device and name it individually. You can find the UUID on the nameplate of the device.

UUID 
e.g. 71f73baa-45b4-48c8-bd0f-7f99b41d6d8c

Device Name 
e.g. solar cabinet device 01

Comment 
e.g. Device administration by John Doe

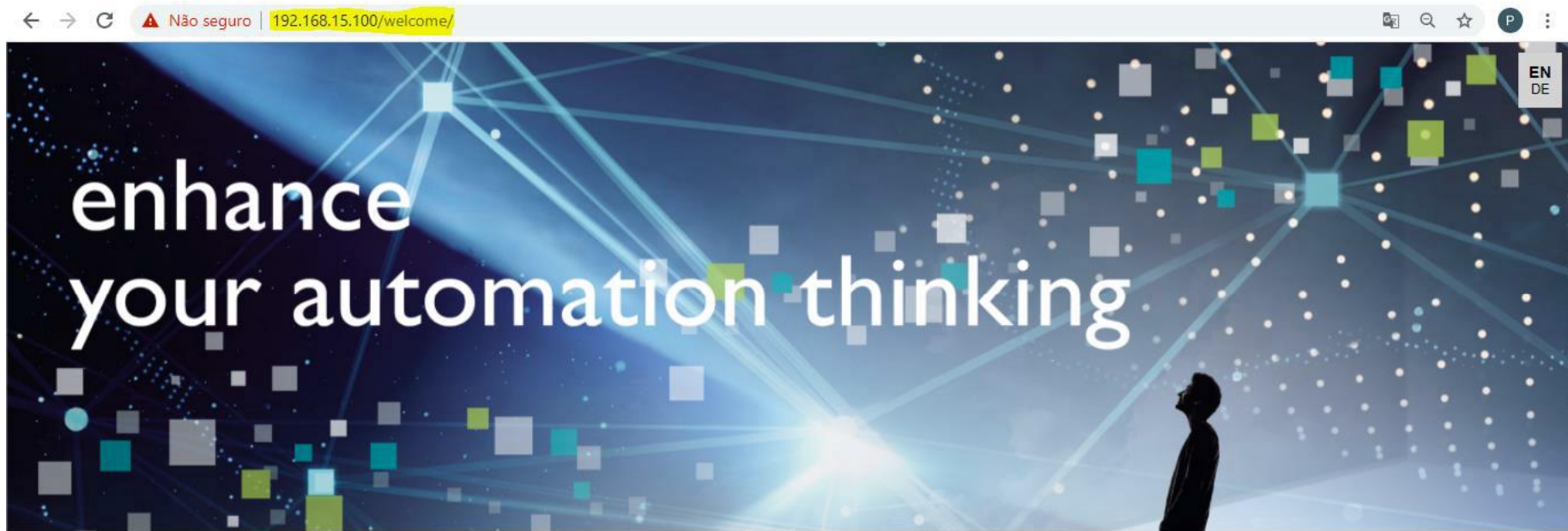
Location 
e.g. Industriest9A, 30234 Bad Pyrmont, or 52.525511, 13.326541

New tag 
separate tags by comma

ADD DEVICE TO PROFICLOUD

Habilitar permissões de conexão do PLCnext ao Proficloud

Acesse via IP as configurações do CLP através de um web browser



PLCnext Control

Many thanks for choosing a controller with PLCnext Technology. Discover the advantages of this open control platform, which provides completely new levels of your freedom for automation.

Easy configuration:

[Click here for the web-based management of the PLCnext Control.](#)

PLCnext user community:

Many application examples, instructions for use, instructional videos, and FAQs or software and firmware downloads are also available to you in our user community. Become a member of this community and discuss your personal experiences, ideas and questions with other users.

PLCnext Technology on the Web:

Also visit our PLCnext website. There you will find more information about the PLCnext Technology.



Habilitar permissões de conexão do PLCnext ao Proficloud

Please login with your username and password.

Username **admin**

Password **12345abcde**

Login

Hinweis:

Dieses Gerät darf nur von autorisierten Benutzern für autorisierte Zwecke verwendet werden. Ihre Anmeldeinformationen und alle Benutzeraktionen auf diesem Gerät können überwacht, aufgezeichnet, kopiert und auditiert werden. Durch die weitere Verwendung dieses Geräts erklären Sie sich mit diesen Bedingungen einverstanden.

Notice:

This device may only be used by authorized users for authorized purposes. Your credentials and all user actions on this device can be monitored, recorded, copied and audited. By continuing to use this device, you agree to these terms.



Habilitar permissões de conexão do PLCnext ao Proficloud

Importante que a faixa de IP esteja conforme a rede o gateway sendo o servidor de internet

PHOENIX CONTACT

Project Name:

AXC F 2152
2404267

Information

Network Configuration

LAN Interfaces

TCP/IP (LAN 1) - Switched Mode

IP Address	192.168.15.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.15.1
MAC Address	00:A0:45:A0:AA:C7

Port X1

Data Rate	100 Mbit/s
Duplex Mode	Full Duplex
Link Status	LinkUp

Port X2

Data Rate	100 Mbit/s
Duplex Mode	Full Duplex
Link Status	LinkUp

Connection: ● Online | Status: Ok

PHOENIX CONTACT
INSPIRING INNOVATIONS


Habilitar permissões de conexão do PLCnext ao Proficloud



Project Name:

HW: 02 FW: 2021.0.0 LTS
MAC: 00:A0:45:A0:AA:C7

AXC F 2152
2404267



- + Information
- + Diagnostics
- Configuration
 - PLCnext Store
 - Proficloud Services**
 - Web Services
- + Security
- + Administration

Configuration

Proficloud Services

Information	
UUID	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
Proficloud Status	Online
Information	

Proficloud Connection	
Enable Connection	<input checked="" type="checkbox"/>

Services	
Device Management	<input checked="" type="checkbox"/>
Time Series Data at proficloud.io	<input checked="" type="checkbox"/>

Reset **Apply**



Habilitar permissões de conexão do PLCnext ao Proficloud

Status de conexão bem sucedida com a nuvem



AXC F 2152
2404267

Configuration

Proficloud Services

Information

UUID
Proficloud Status	Online
Information	

Device Management Service

Device Overview

ADD DEVICE **STATUS**

 Online	AXC_F_2152 AXC F 2152	 
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Configurando variáveis a serem digitalizadas em nuvem

The screenshot shows a software interface with a table titled "Variables". The table has columns for Name, Type, Usage, Transl..., Comment, Init, Retain, Constant, OPC, HMI, Proficloud, and I/Q. A red circle highlights a group of variables, and a red rectangle highlights the Proficloud column.

Name	Type	Usage	Transl...	Comment	Init	Retain	Constant	OPC	HMI	Proficloud	I/Q
FB_Ton_Toff1	FB_Ton_Toff	Local	<input type="checkbox"/>								
Entrada_Digital_0	BOOL	External	<input type="checkbox"/>				<input type="checkbox"/>				
Saida_Digital_0	BOOL	External	<input type="checkbox"/>				<input type="checkbox"/>				
CTU1	CTU	Local	<input type="checkbox"/>								
Contagem	INT	OUT Port	<input type="checkbox"/>		INT#0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Cont	BOOL	OUT Port	<input type="checkbox"/>		FALSE	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
LED	BOOL	OUT Port	<input type="checkbox"/>		FALSE	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
VRL_SENO	REAL	OUT Port	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
VRL	REAL	OUT Port	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
VRL_1	REAL	OUT Port	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
VRL_2	REAL	OUT Port	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
VRL_3	REAL	OUT Port	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
FB_SOMA1	FB_SOMA	Local	<input type="checkbox"/>								
SOMA	REAL	Local	<input type="checkbox"/>		REAL#0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Status_Cont_2	BOOL	OUT Port	<input type="checkbox"/>		FALSE	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Enter variable name here			<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Dashboard - Time Series Data Service do Proficloud






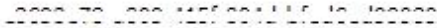
Device Management Service

Device Overview

- Device Management Service
- EMMA Service
- Time Series Data Service**

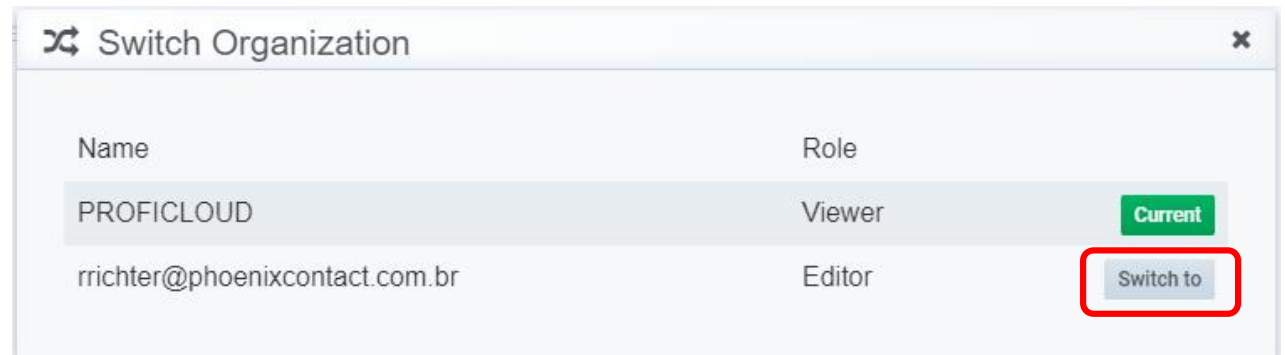
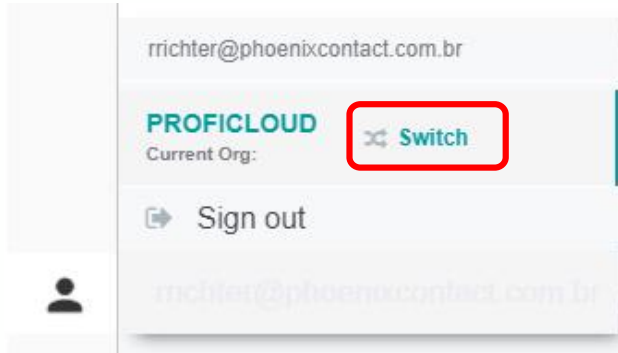
ADD DEVICE

↓ **STATUS** ^

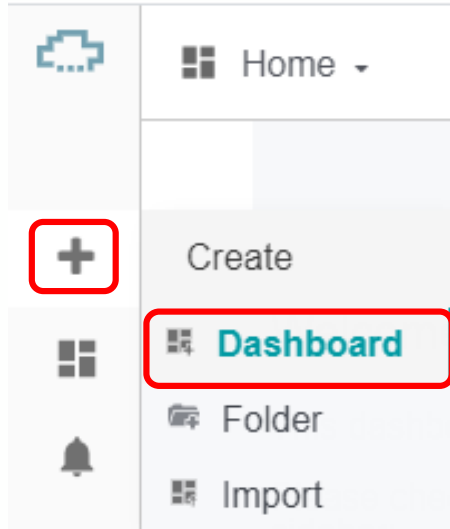
	AXC_F_2152		
Online		AXC F 2152	

Dashboard - Time Series Data Service do Proficloud

Por padrão o usuário inicial é o PROFICLOUD, basta alterar para o seu usuário



Dashboard - Time Series Data Service do Proficloud



Home ▾

+ Create

Dashboard

Folder

Import

New dashboard ▾

+ New Panel



Add Query

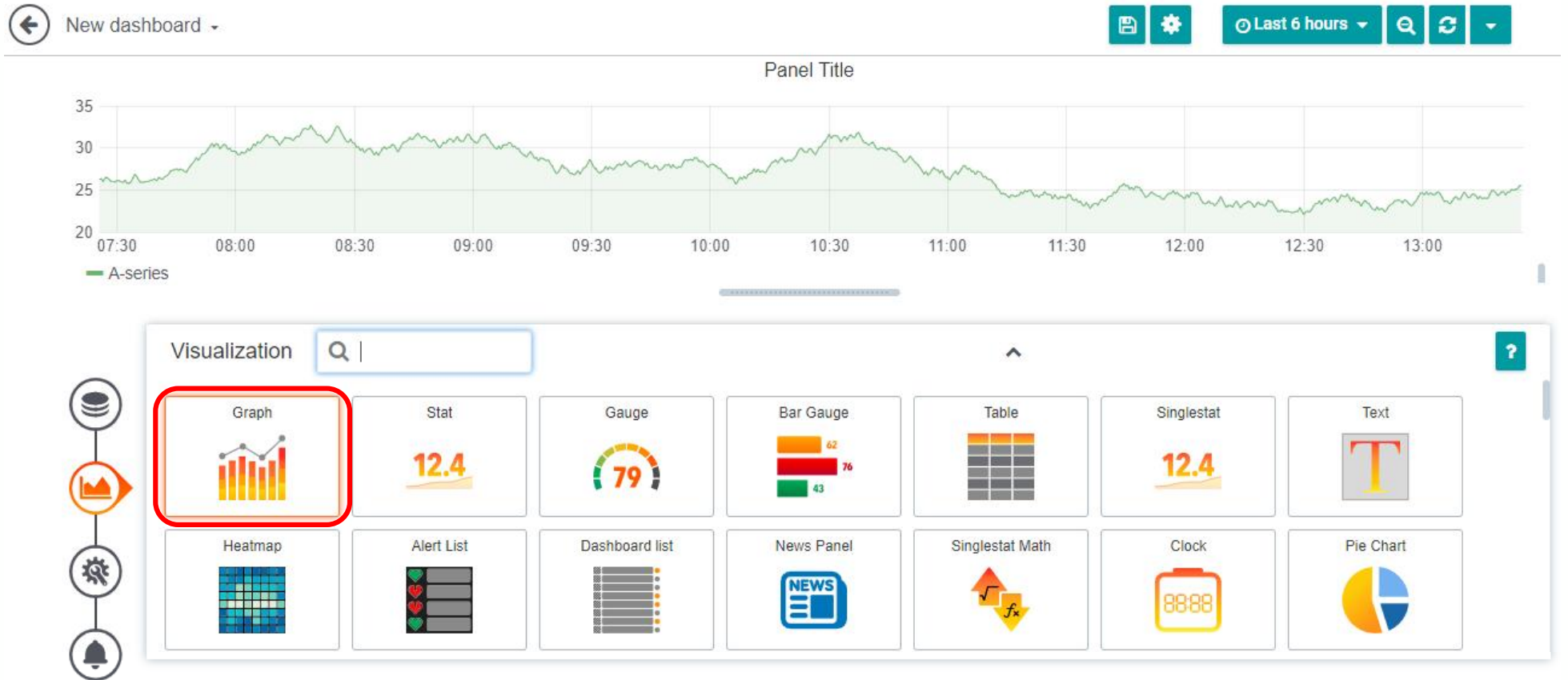


Choose Visualization

Convert to row

Dashboard - Time Series Data Service do Proficloud

Selecione o plugin para a representação visual das variáveis do PLC



Dashboard - Time Series Data Service do Proficloud

Seleção do big data e variáveis

Seleção do seu banco de dados

Seleção das variáveis disponíveis em seu banco de dados

Seleção do UUID origem (UUID do PLC origem)

Adicionar outra variável a ser representada no mesmo plugin

Configuração de valor corrente, médio, max, min e etc...

Customização do nome da variável

The screenshot displays the configuration interface for a time series query. The interface is organized into several sections:

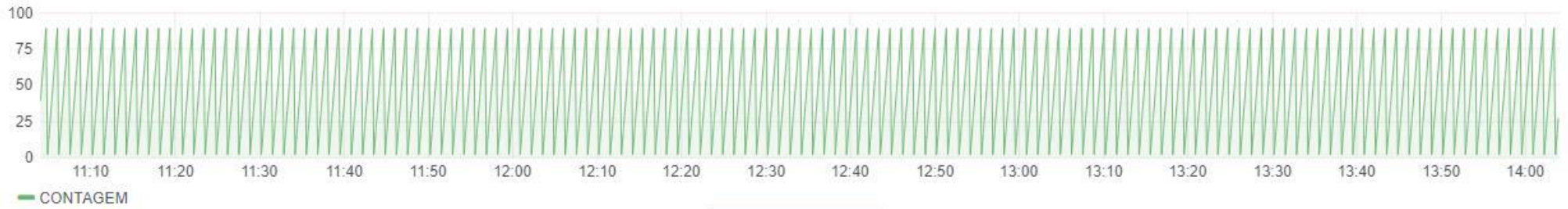
- Query:** A text field containing a database identifier: `db-47edc5be-95d9-4e90-af1c-d15c97cd5k`.
- Buttons:** `Add Query` and `Query Inspector` buttons are located in the top right corner.
- FROM:** A dropdown menu is set to `default`, and a text field contains `auto~Contagem`. A `WHERE` clause is defined as `uuid = [UUID]`.
- SELECT:** A dropdown menu is set to `field (value)`, and a text field contains `last ()`.
- GROUP BY:** A dropdown menu is set to `time`, and a text field contains `[$_interval]`. A `fill (null)` option is also visible.
- FORMAT AS:** A dropdown menu is set to `Time series`.
- ALIAS BY:** A text field contains `CONTAGEM`.

Red arrows point from the text labels to the corresponding configuration elements in the interface.

Dashboard - Time Series Data Service do Proficloud

Configurações de visualização

CONTAGEM



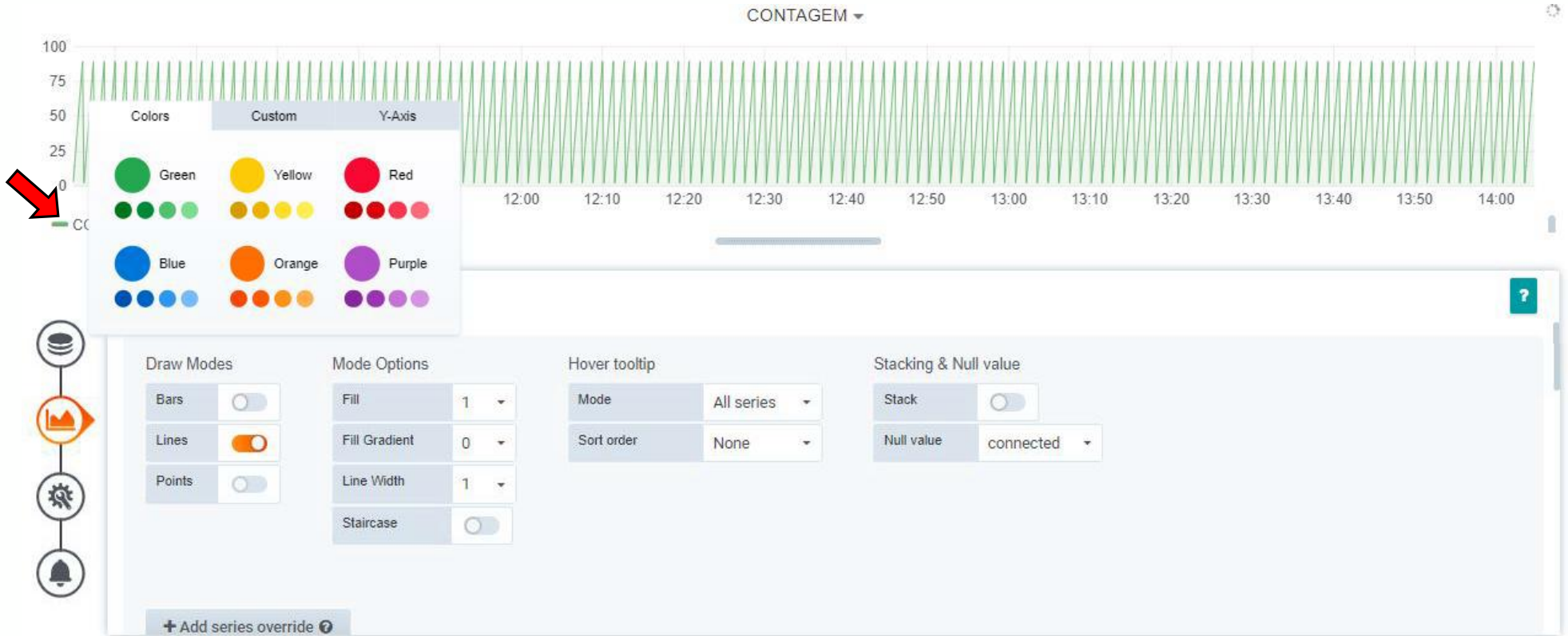
Visualization Graph ?

Draw Modes	Mode Options	Hover tooltip	Stacking & Null value
Bars <input type="checkbox"/>	Fill 1 ▾	Mode All series ▾	Stack <input type="checkbox"/>
Lines <input checked="" type="checkbox"/>	Fill Gradient 0 ▾	Sort order None ▾	Null value connected ▾
Points <input type="checkbox"/>	Line Width 1 ▾		
	Staircase <input type="checkbox"/>		

+ Add series override ⓘ

Dashboard - Time Series Data Service do Proficloud

Configurações de cores de visualização



Dashboard - Time Series Data Service do Proficloud

Configurações gerais – ex: Título do gráfico



General

Title	CONTAGEM	Description	Panel description, supports markdown & links
Transparent	<input type="checkbox"/>		

Repeating

Repeat

Note: You may need to change the variable selection to see this in action.

Dashboard - Time Series Data Service do Proficloud

Configurações de alarme e envio de e-mail



Alert

[State history](#) [Test Rule](#) [Delete](#)

Rule

Name: CONTAGEM alert Evaluate every: 1m For: 0m

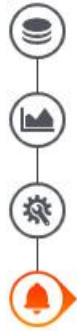
Conditions

WHEN last () OF query (A, 5m, now) IS ABOVE 95

No Data & Error Handling

Dashboard - Time Series Data Service do Proficloud

Configurações de alarme e envio de e-mail



Alert [State history](#) [Test Rule](#) [Delete](#)

Notifications

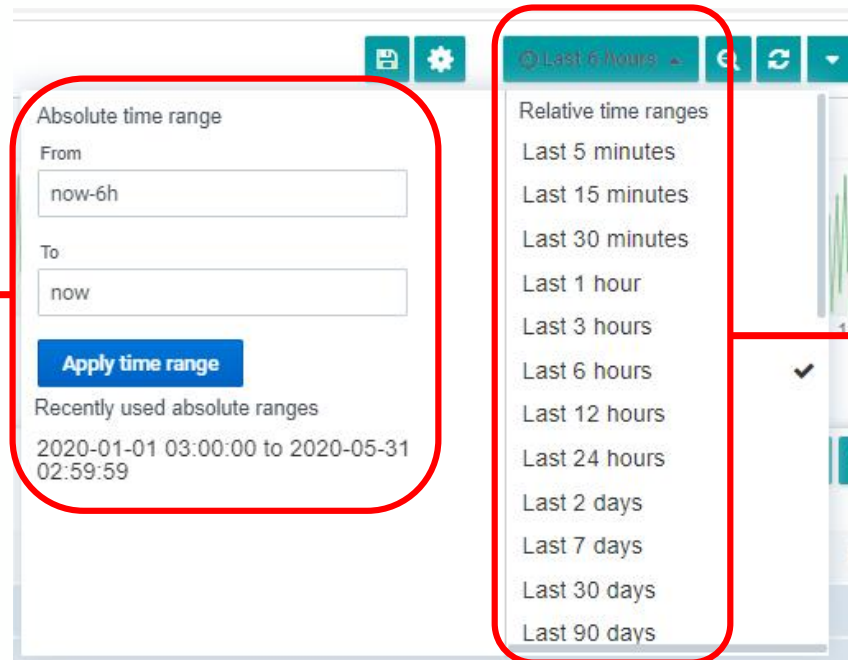
Send to: Alarm Proficloud TSD +

Message: Notification message details...

Tags:
 + Add Tag

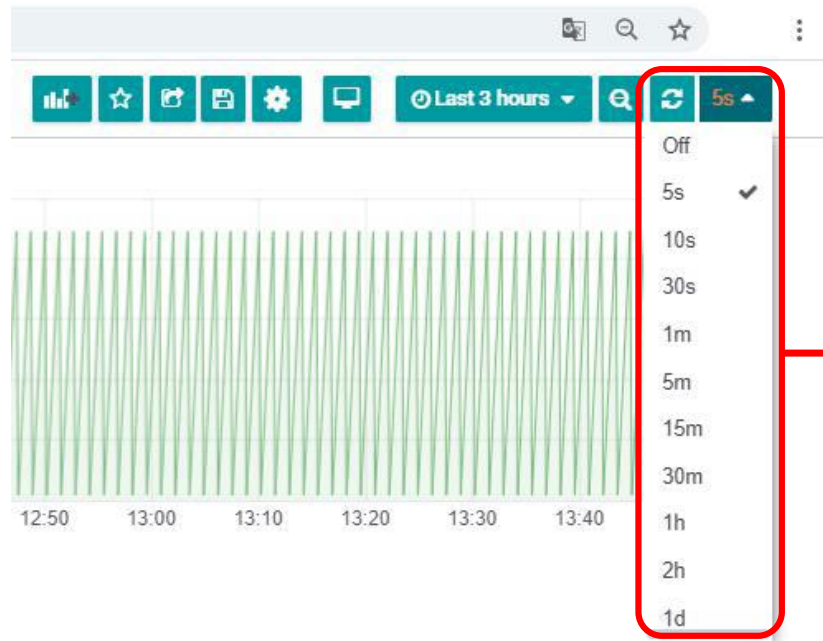
Dashboard - Time Series Data Service do Proficloud

Busca representar as variáveis do respectivo período o data seleccionada



Configuração do tempo a ser considerado nos gráficos representados na linha do tempo.

Dashboard - Time Series Data Service do Proficloud



Configuração do tempo de atualização dos valores das variáveis representados no dashboard

Dashboard - Time Series Data Service do Proficloud

