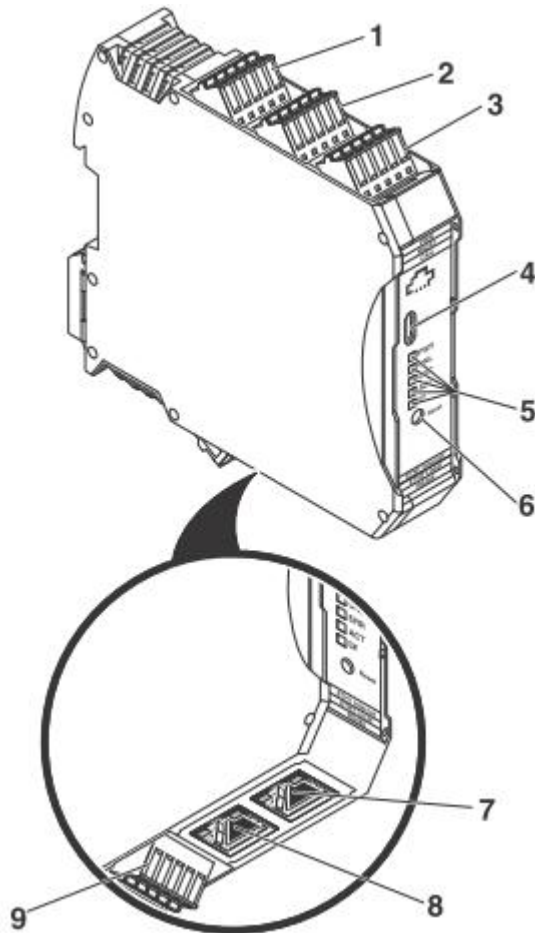




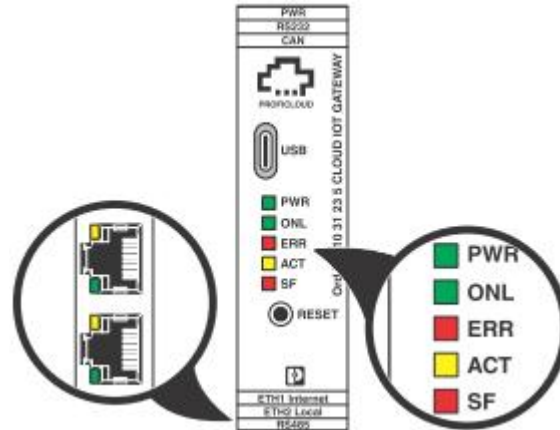
MANUAL DE CONFIGURAÇÃO CLOUD IOT GATEWAY

Alimentação, Interfaces e Comunicação



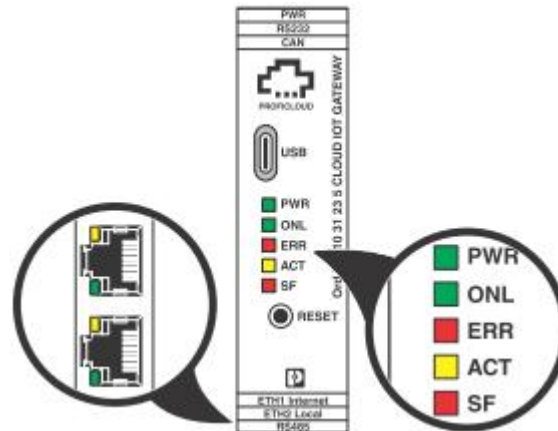
- 1 Supply plug >> 24VDC: Pino 15 (+) , Pino 14 (-)
- 2 RS-232 interface
- 3 CAN bus interface
- 4 Service interface (USB type C)
- 5 Diagnostic and status indicators
- 6 Reset button
- 7 Ethernet interface for connection to the Internet and the PROFICLOUD
- 8 Ethernet interface for local network connection
- 9 RS-485 interface

Diagnóstico Visual através dos LEDs frontais



Designation	Color	Meaning	State	Description
PWR	Green	Voltage supply	Off	24-V supply voltage feed-in is not available or too low.
			On	24-V supply voltage feed-in is available.
ONL	Green	Status of the connection to the PROFICLOUD	Off	IoT gateway is off or PROFICLOUD service is not running.
			Flashing slowly	No connection to PROFICLOUD.
			Flashing quickly	Firmware update is in progress.
			On	Connection to the PROFICLOUD is OK.
ERR	Red	Error in the service of the IoT gateway	Off	No error in the service of the IoT gateway.
			On	Error in the service of the IoT gateway; IoT gateway has to be restarted.
ACT	Yellow	Memory access active	Off	IoT gateway: No memory access active
			Flashing	The IoT gateway transmits the data to the PROFICLOUD.
			On	IoT gateway: Memory access active

Diagnóstico Visual através dos LEDS frontais



Designation	Color	Meaning	State	Description
SF	Red	Group error	Off	Currently without function
			Flashing	
			On	
-	Green	Link status	Off	Connection not established successfully
			On	Connection successfully established (link) The IoT gateway can contact another network participant.
-	Yellow	Activity status	Off	Data transmission not active
			Flashing/ On	Data transmission active (activity) The Ethernet interface sends or receives data.

Acesso as configuração via Web Browser

192.168.10.10/login



CLOUD IOT GATEWAY

Please sign in

Sign In

CLOUD IOT GATEWAY 1.0.0 © 2018 PHOENIX CONTACT [Contact](#)

IP padrão de fábrica: 192.168.10.10

Login: admin

Password: private

Página Principal



CLOUD IOT GATEWAY



2 %



Home

Connectors

Show only active

Search



Show Entries

First

Previous

Next

Last



Add

Configurações



CLOUD IOT GATEWAY



0 %



[Home](#) / [Settings](#) / [Info](#)

Info

[Users](#)

[Network](#)

[Time](#)

[Security](#)

[Buffers](#)

[Import/Export](#)

[Update](#)

[Reset](#)

[Restart](#)

System Information

UUID	b17bbb00-9723-4077-aa06-45afb1678c0e
Software version	1.0.0-11-c596d09
License	Third party licenses
Proficloud State	-

Gerenciamento de Usuários



Home / Settings / Users

Info

Users

Network

Time

Security

Buffers

Import/Export

Update

Reset

Restart

User list

Add user

Search



Show

25



Entries

First

Previous

1

Next

Last

Username↓↑

Last Login↓↑

Language↓↑

User role↓↑

Enabled↓↑

Edit

admin

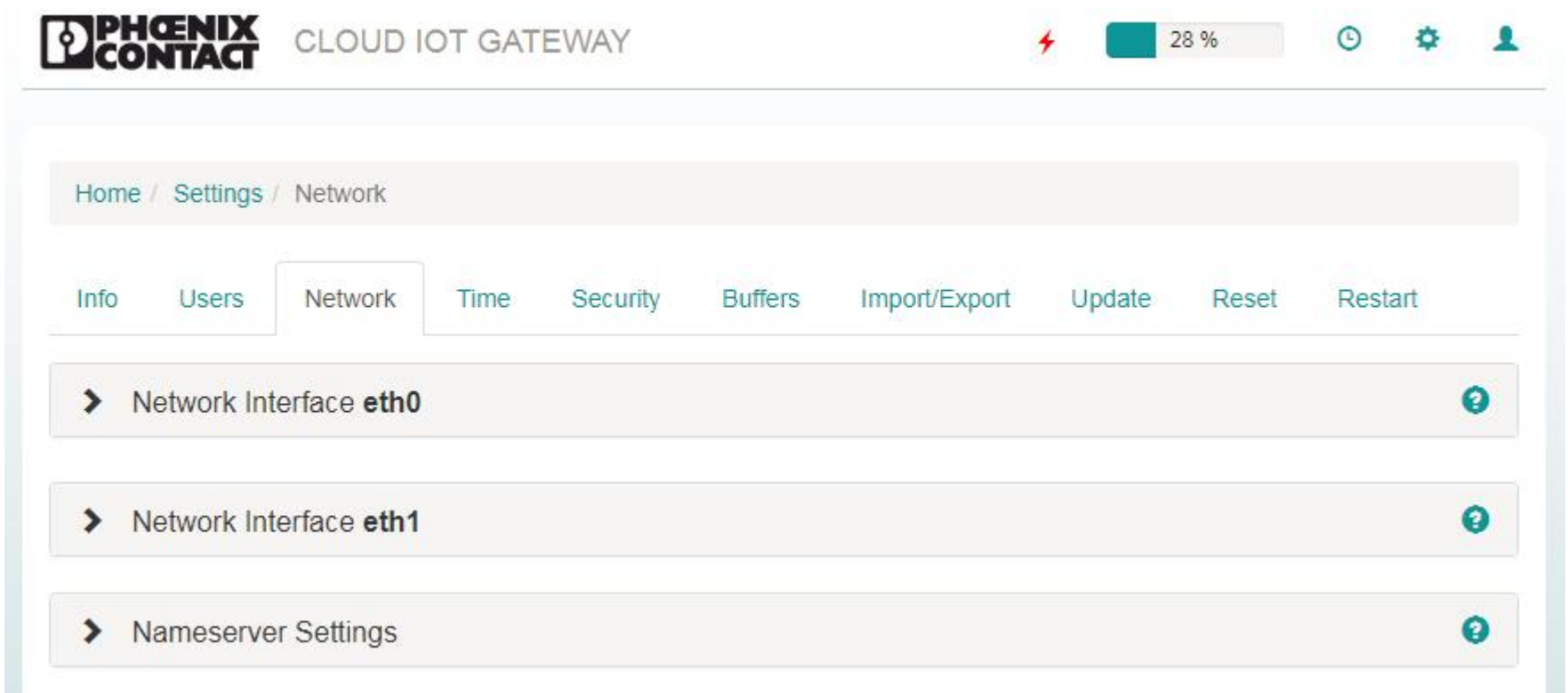
2018-04-20 09:57:15

English

Admin



Configuração de Rede Local e Internet



The screenshot displays the user interface of the PHENIX CONTACT Cloud IOT Gateway. At the top left, the logo for PHENIX CONTACT is visible, followed by the text 'CLOUD IOT GATEWAY'. On the top right, there is a status bar showing a battery level of 28%, a clock icon, a gear icon for settings, and a user profile icon. Below the header, a breadcrumb trail indicates the current location: 'Home / Settings / Network'. A horizontal menu below the breadcrumb contains several options: 'Info', 'Users', 'Network' (which is currently selected and highlighted), 'Time', 'Security', 'Buffers', 'Import/Export', 'Update', 'Reset', and 'Restart'. The main content area lists three network-related settings, each with a right-pointing chevron and a help icon (question mark): 'Network Interface eth0', 'Network Interface eth1', and 'Nameserver Settings'.

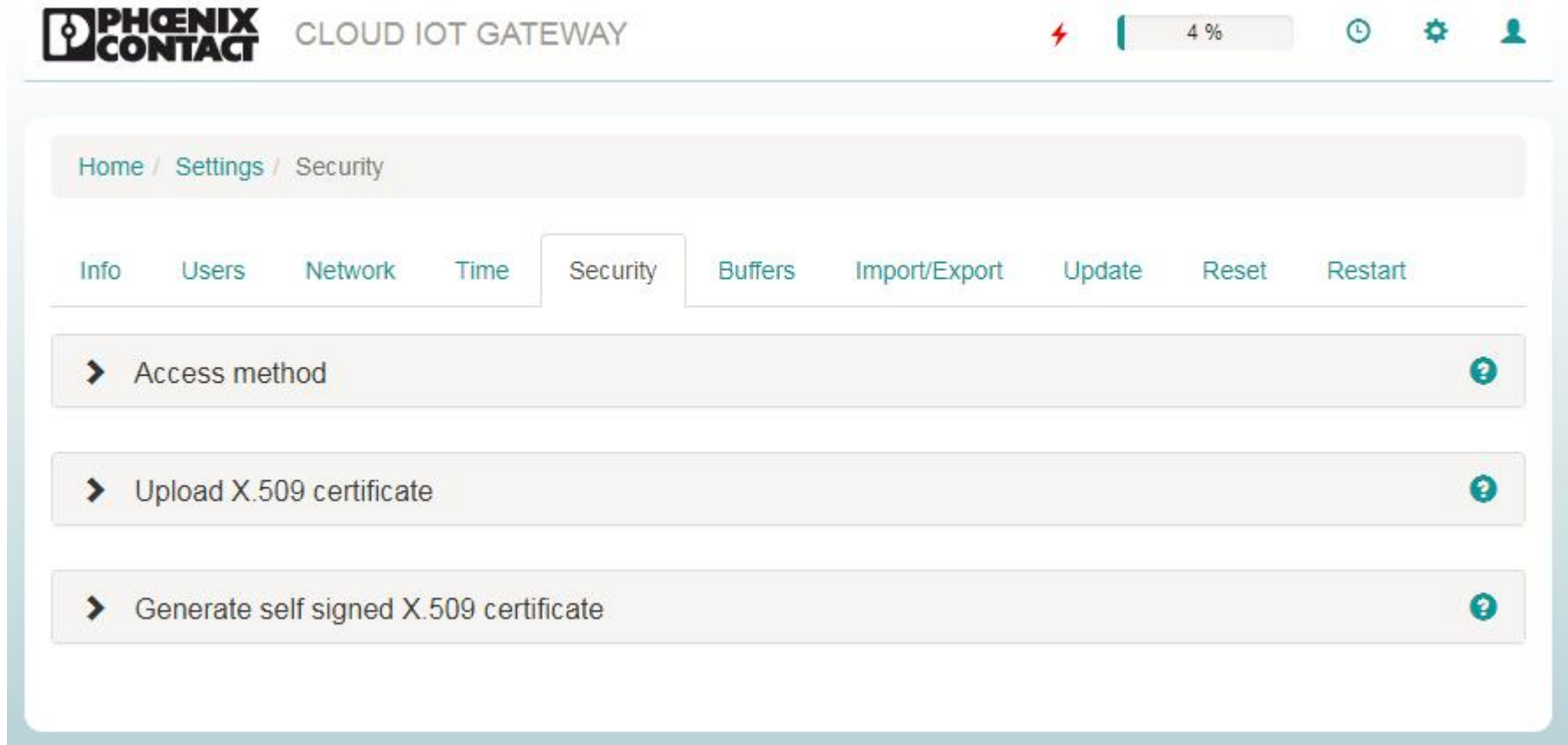
Configuração de Rede Local e Internet



Configuração de Data e Hora

The screenshot shows the PHENIX CONTACT Cloud IOT Gateway interface. At the top left is the logo and the text "PHENIX CONTACT CLOUD IOT GATEWAY". On the top right, there is a battery status indicator showing 6% and several utility icons (power, clock, settings, user). Below the header is a breadcrumb trail: "Home / Settings / Time". A horizontal menu contains tabs for "Info", "Users", "Network", "Time" (which is active), "Security", "Buffers", "Import/Export", "Update", "Reset", and "Restart". The main content area is titled "Date and time" with a dropdown arrow and a help icon. Underneath, it says "Date and time (UTC)" above a text input field containing "2018-04-19 14:16:24". At the bottom of this section are three buttons: a red "Synchronize (NTP)" button, a teal "Discard" button, and a teal "Update" button.

Configuração de segurança e certificados



The screenshot displays the Phoenix Contact Cloud IOT Gateway web interface. At the top left is the Phoenix Contact logo and the text "CLOUD IOT GATEWAY". On the top right, there is a battery status indicator showing 4% and several utility icons (power, clock, settings, user). Below the header is a breadcrumb trail: "Home / Settings / Security". A horizontal menu contains tabs for "Info", "Users", "Network", "Time", "Security" (which is active and highlighted), "Buffers", "Import/Export", "Update", "Reset", and "Restart". The main content area under the "Security" tab lists three configuration options, each with a right-pointing chevron and a help icon (question mark in a circle):

- Access method
- Upload X.509 certificate
- Generate self signed X.509 certificate

Configuração de Buffer



CLOUD IOT GATEWAY



1 %



Home / Settings / Buffers

Info

Users

Network

Time

Security

Buffers

Import/Export

Update

Reset

Restart

➤ Global buffers



▼ Default buffers



Buffering enabled

Default buffer size (in byte)

4000

System maximum:

216.88 MB

Currently used:

0 Bytes

Discard

Update

Importação e Exportação de Configuração



CLOUD IOT GATEWAY



15 %



Home / Settings / Import/Export

Info

Users

Network

Time

Security

Buffers

Import/Export

Update

Reset

Restart

▼ Import configuration

Import configuration

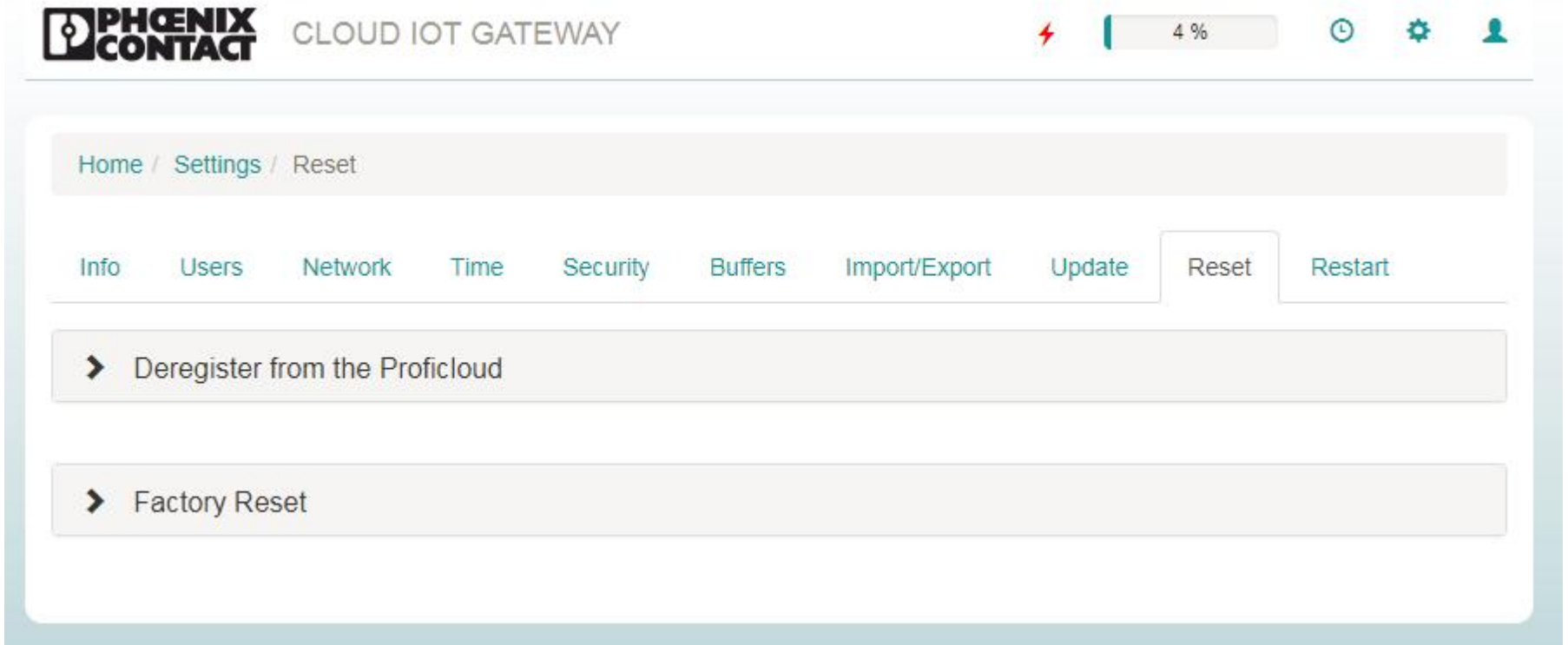
Browse..

Import

➤ Export configuration



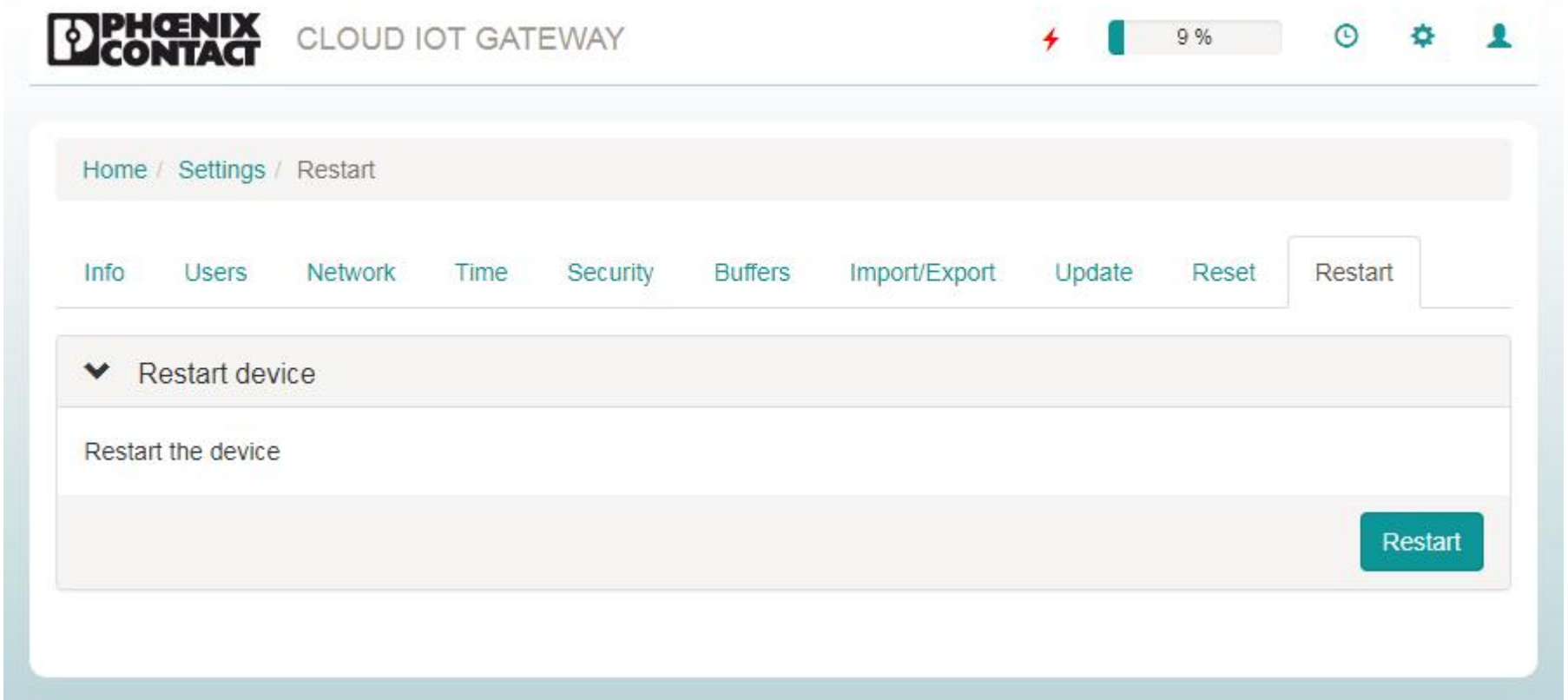
Reset de Fábrica



The screenshot shows the Phoenix Contact Cloud IOT Gateway web interface. At the top left is the Phoenix Contact logo and the text "CLOUD IOT GATEWAY". On the top right, there is a battery status indicator showing 4% and icons for a clock, settings, and a user profile. Below the header is a breadcrumb trail: "Home / Settings / Reset". A horizontal menu contains several options: "Info", "Users", "Network", "Time", "Security", "Buffers", "Import/Export", "Update", "Reset", and "Restart". The "Reset" option is currently selected. Underneath the menu, there are two main actions, each with a right-pointing arrow:

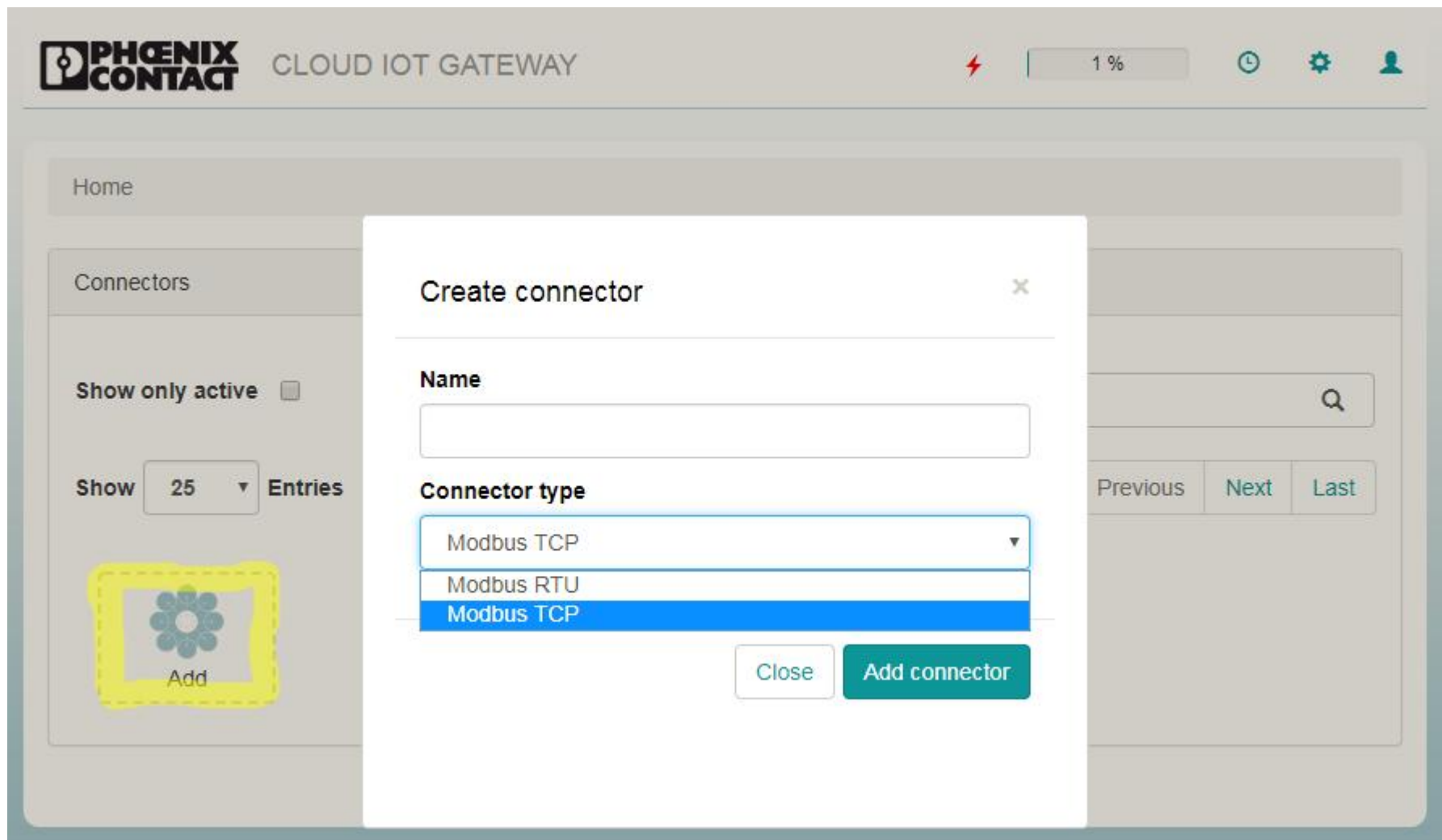
- Deregister from the Proficloud
- Factory Reset

Reiniciar Dispositivo



The screenshot displays the Phoenix Contact Cloud IOT Gateway interface. At the top left is the Phoenix Contact logo and the text 'CLOUD IOT GATEWAY'. On the top right, there is a battery status indicator showing 9% and several utility icons (power, clock, settings, user). Below the header is a breadcrumb trail: 'Home / Settings / Restart'. A horizontal menu contains several settings categories: 'Info', 'Users', 'Network', 'Time', 'Security', 'Buffers', 'Import/Export', 'Update', 'Reset', and 'Restart'. The 'Restart' tab is selected. Under this tab, there is a section titled 'Restart device' with a dropdown arrow. Below this section, the text 'Restart the device' is displayed. A prominent teal 'Restart' button is located at the bottom right of the content area.

Adicionar Comunicação MODBUS TCP ou RTU



The screenshot displays the PHENIX CONTACT Cloud IOT Gateway web interface. The main header includes the logo and the text "CLOUD IOT GATEWAY". In the top right corner, there are icons for a lightning bolt, a battery level indicator at 1%, a clock, a settings gear, and a user profile. The left sidebar shows a "Connectors" section with a "Show only active" checkbox and a "Show 25 Entries" dropdown. A yellow dashed box highlights an "Add" button with a gear icon. The main content area is partially obscured by a "Create connector" dialog box. This dialog box has a title bar with a close button (x) and contains a "Name" input field, a "Connector type" dropdown menu, and two buttons: "Close" and "Add connector". The dropdown menu is open, showing "Modbus TCP" as the selected option, with "Modbus RTU" also visible below it.

Gerenciamento de Comunicações MODBUS



CLOUD IOT GATEWAY



7%



Home

Connectors

Show only active

Search



Show 25 Entries

First

Previous

1

Next

Last



Add



Test_Richter

Comunicações MODBUS ativa e online



CLOUD IOT GATEWAY



13 %



Home

Connectors

Show only active

Search



Show 25 Entries

First

Previous

1

Next

Last



Add




Test_Richter

Configurando o CLOUD IOT como Master MODBUS

The screenshot displays the PHOENIX CONTACT CLOUD IOT GATEWAY interface. At the top left is the logo and the text "PHOENIX CONTACT CLOUD IOT GATEWAY". On the top right, there is a battery status indicator showing 13%, along with icons for a lightning bolt, a clock, a gear, and a user profile. Below the header is a "Home" breadcrumb. The main content area is titled "Connectors" and includes a "Show only active" checkbox, a search bar, and a "Show 25 Entries" dropdown. A pagination bar shows "First", "Previous", "1", "Next", and "Last". The connector list contains two items: "Add" (with a gear icon) and "Modbus TCP" (with a green gear icon and the name "Test_Richter" below it). The "Modbus TCP" entry is highlighted with a red rectangular box.

Configurando a comunicação IOT como Master MODBUS



IOT

Nome da comunicação

▼ Connector settings

Name
IOT

Cycle (in ms)
1000

Active

Protocol specific settings

Device Address
192.168.10.20

Device Port
502

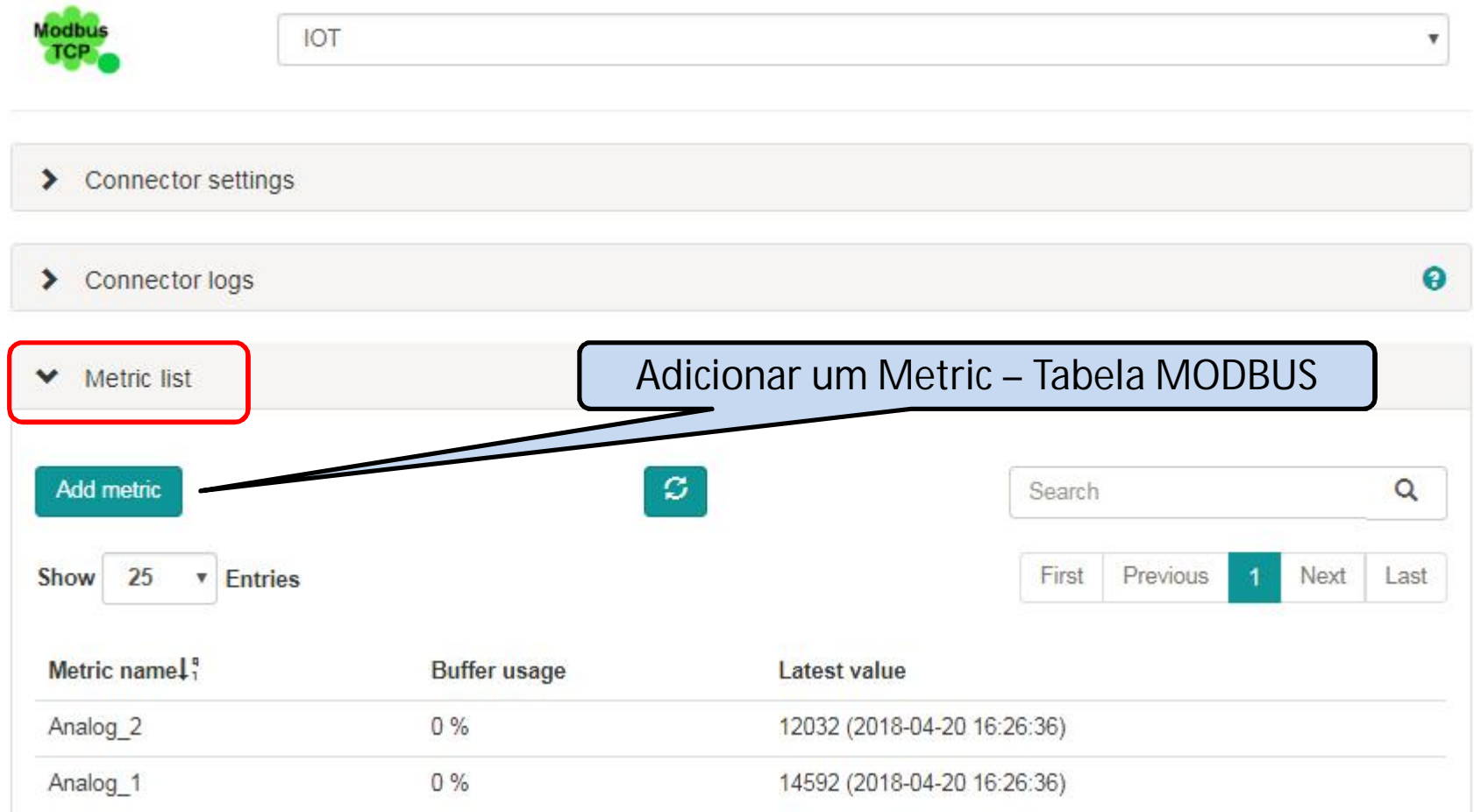
Slave Id
2

Timeout (in ms)
2000

Reconnect Delete Discard Update and reconnect

IP do Escravo MODUBS de onde quer se obter os valores e status das variáveis

Criando Tabela MODBUS a ser lida dos dispositivos



Modbus TCP

IOT

Connector settings

Connector logs

Metric list

Adicionar um Metric – Tabela MODBUS

Add metric

Search

Show 25 Entries

First Previous 1 Next Last

Metric name	Buffer usage	Latest value
Analog_2	0 %	12032 (2018-04-20 16:26:36)
Analog_1	0 %	14592 (2018-04-20 16:26:36)

Criando Tabela MODBUS a ser lida dos dispositivos

Metric Settings

Name
Analog_1

Buffer Size
4000

Update Condition ?

Protocol Specific Settings

Modbus Function
(0x04) Read Input Registers

Starting Register As Decimal
0

Value Type
unsigned int

Quantity Of Registers (Number Of Words)
1

Endianness
Little Endian

Discard Delete Update

Nome da Metric

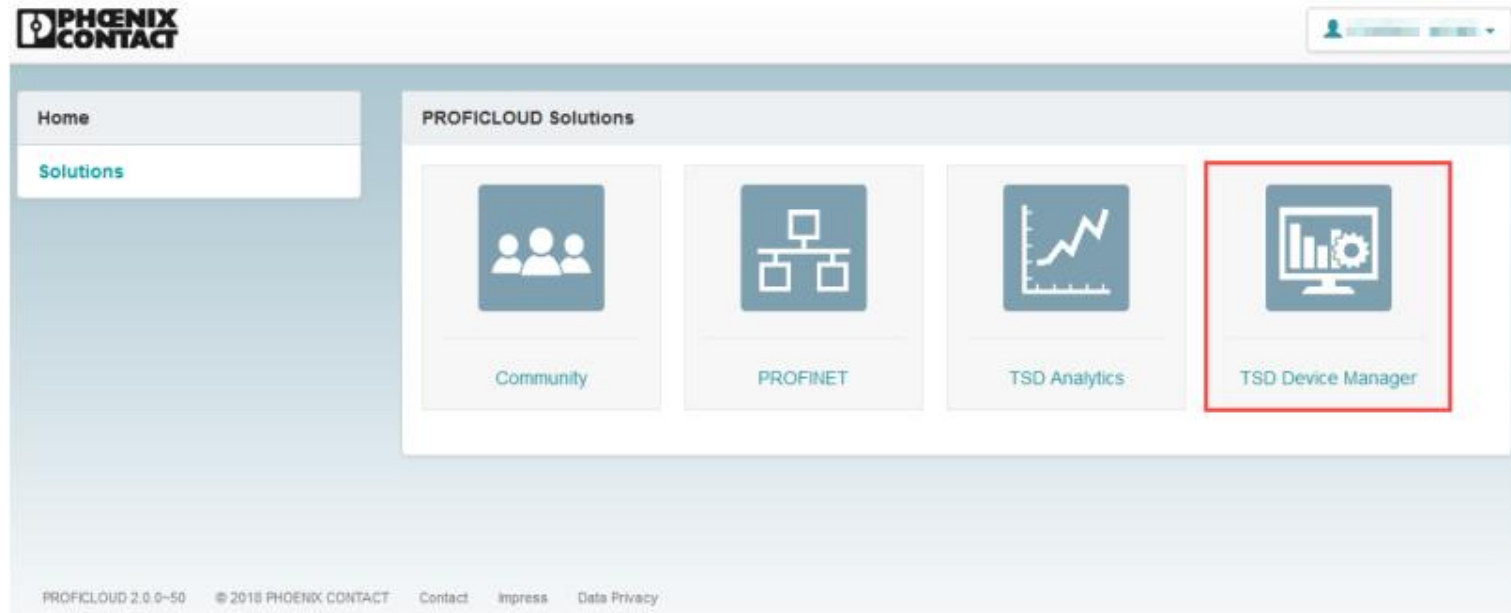
Função MODBUS de leitura

Registro inicial a ser lido

Tipo do valor lido

Número de registros a serem lidos

Adicionar hardware na conta PROFICLOUD



The screenshot shows the PROFICLOUD Solutions page. The page features a navigation menu on the left with 'Home' and 'Solutions' (highlighted in blue). The main content area is titled 'PROFICLOUD Solutions' and contains four solution cards: 'Community' (with an icon of three people), 'PROFINET' (with a network diagram icon), 'TSD Analytics' (with a line graph icon), and 'TSD Device Manager' (with a computer monitor icon showing a bar chart and a gear). The 'TSD Device Manager' card is highlighted with a red border. At the top right, there is a user profile dropdown menu. The footer contains the text 'PROFICLOUD 2.0.0-50 © 2018 PHOENIX CONTACT Contact Impress Data Privacy'.

Adicionar hardware na conta PROFICLOUD

The screenshot shows the 'Appliances' management interface in PROFICLOUD. On the left is a navigation menu with 'Menu', 'Appliances', 'Metrics', and 'Goto Analytics'. The main content area is titled 'Appliances' and includes a search bar, a 'Show 5 Entries' dropdown, and pagination controls (First, Previous, 1, 2, Next, Last). Two buttons are visible: 'Add' (with a plus icon) and 'Archive' (with a database icon). The 'Add' button is highlighted with a red dashed box. The footer contains the text 'PROFICLOUD 1.0.0-29 © 2018 PHOENIX CONTACT Contact Impress Data Privacy'.

Adicionar hardware na conta PROFICLOUD

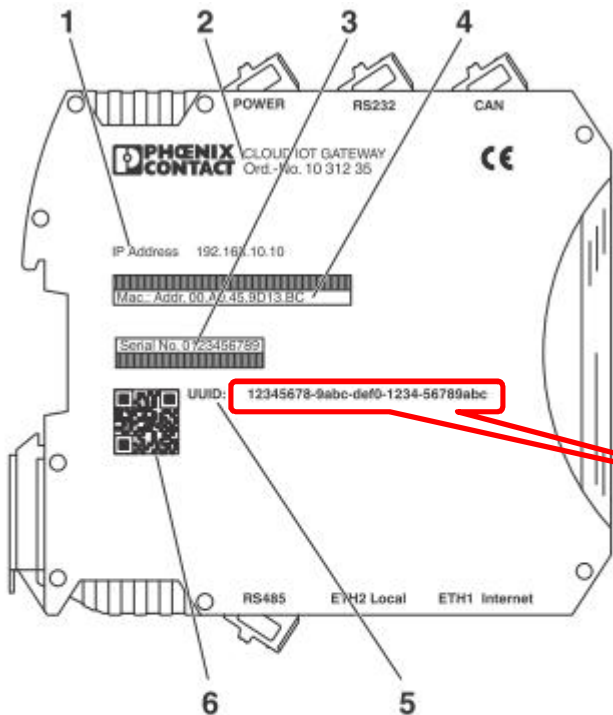


Figure 3-2 Printing

- 1 Default IP address
- 2 Order number and order designation
- 3 Serial number
- 4 MAC address
- 5 UUID
- 6 QR code

Create Appliance

Account name

UUID


Appliance name


Close

Add

As variáveis Metric configuradas irão carregar automaticamente.





Metrics

 Auto-Discover

Search 

Show Entries

First Previous **1** Next Last

Metric name↓↑	Comment↓↑	Edit
rrichter.Test_Richter.ILC_MB_word_1	Automatically generated description.	 
rrichter.Test_Richter.ILC_MB_word_0	Automatically generated description.	 

Ir para o ambiente desenvolvimento do Dashboard

The screenshot displays the TSD Device Manager interface. On the left sidebar, the 'Goto Analytics' button is highlighted with a red border. The main content area is titled 'Appliances / IOT' and contains a table of metrics. The table has columns for 'Metric name', 'Comment', and 'Edit'. Two metrics are listed, both with the name 'richter.Test_Richter.ILC_MB_word_0' and '1' in the 'Edit' column. The 'Comment' column contains the text 'Automatically generated description.'.

TSD Device Manager

- Appliances
- Metrics
- Goto Analytics**

Appliances / IOT

IOT Edit Delete

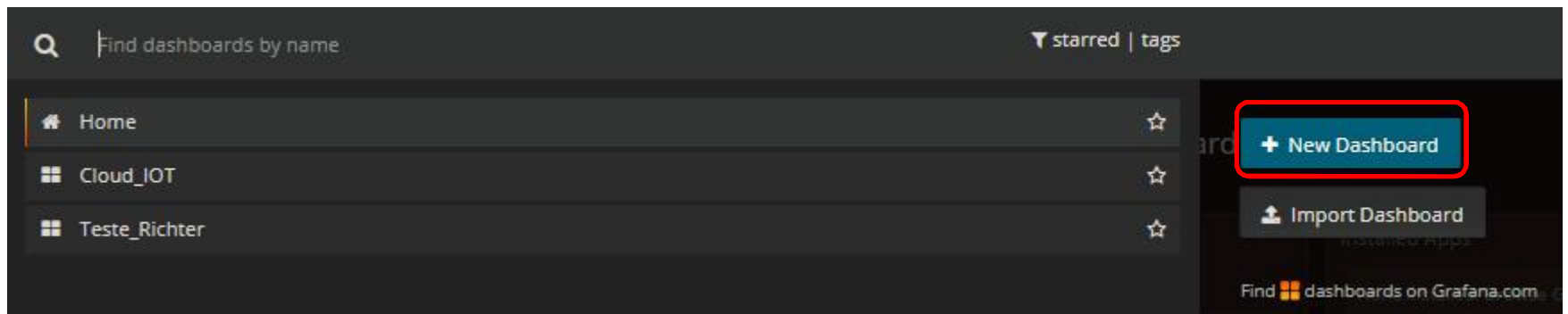
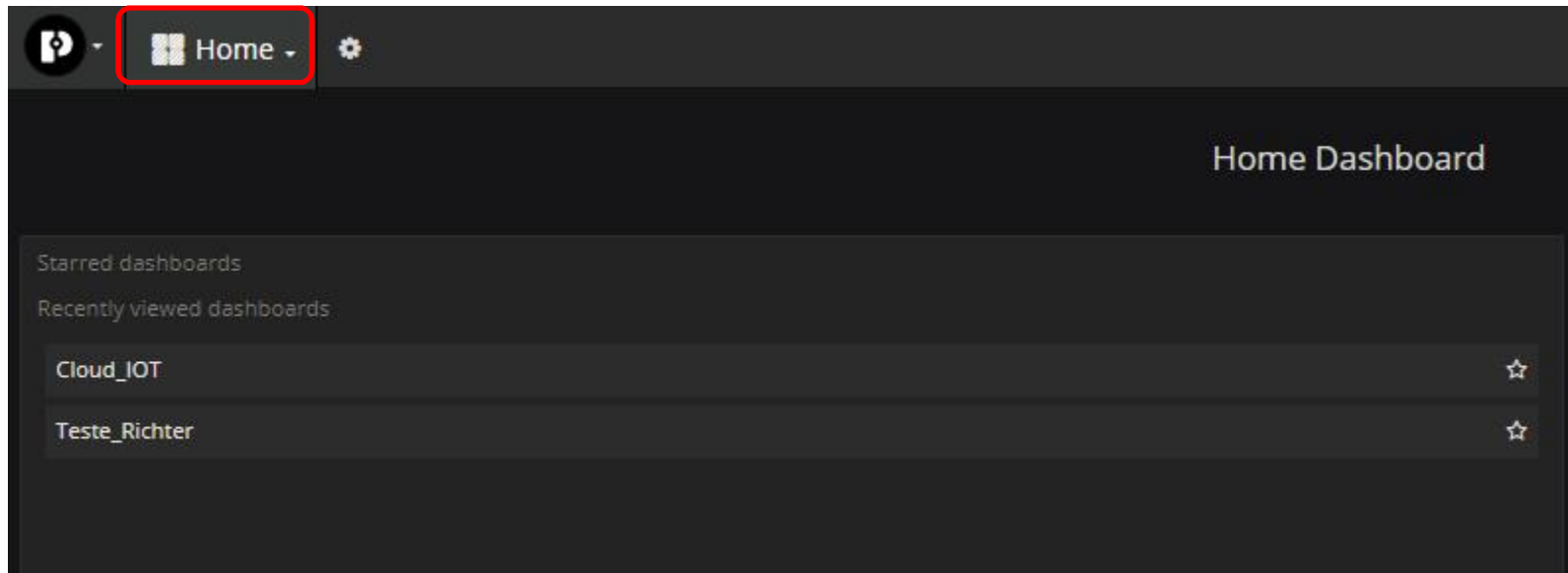
Metrics

Auto-Discover

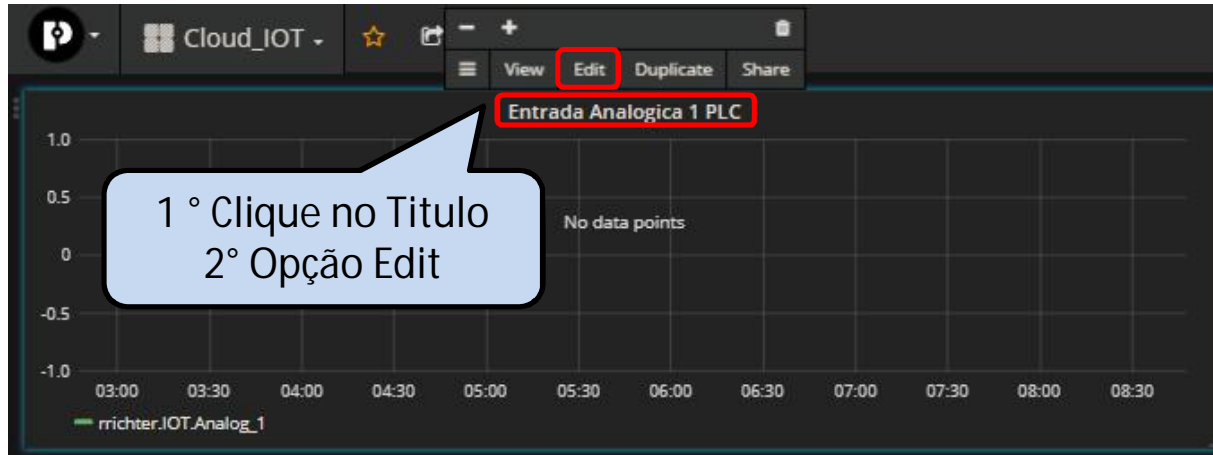
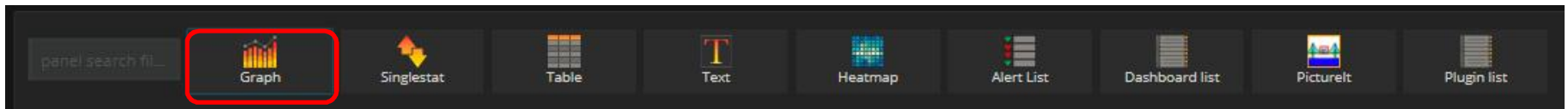
Show **5** Entries First Previous **1** Next Last

Metric name↓↑	Comment↓↑	Edit
richter.Test_Richter.ILC_MB_word_1	Automatically generated description.	Edit Delete
richter.Test_Richter.ILC_MB_word_0	Automatically generated description.	Edit Delete

Criar um novo Dashboard

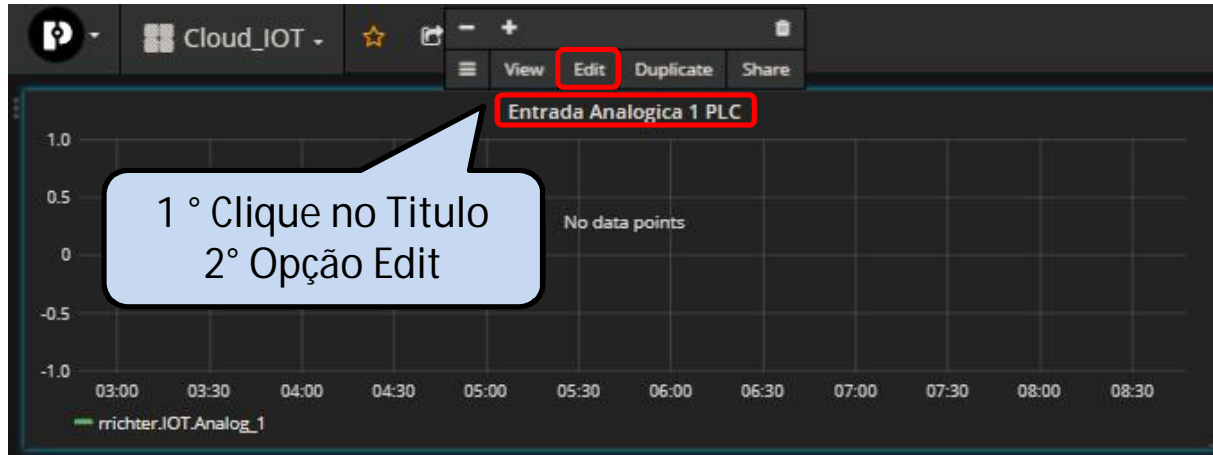
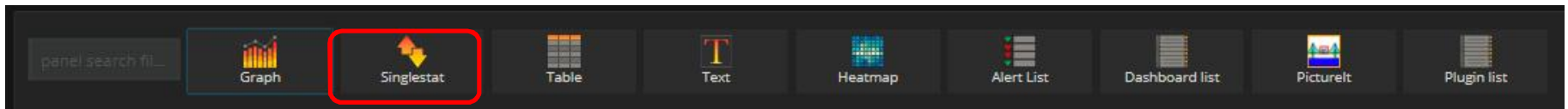


Adicione um novo Painel e Selecione a opção Graph



A screenshot of the 'Graph' configuration panel. The 'Metrics' tab is highlighted with a yellow box, and the 'General' tab is highlighted with a red box. The 'Data Source' dropdown is set to 'rrichter' and is highlighted with a red box. A blue callout bubble points to it with the text 'Origem da variáveis Metrics'. The 'Metric' dropdown is set to 'rrichter.IOT.Analog_1' and is highlighted with a red box. A blue callout bubble points to it with the text 'Variável Metric' and '“usuario_proficloud.device_proficloud.variavel”'. A blue callout bubble points to the 'Metrics' tab with the text 'Opções de configuração visual da variável Metrics'. The panel includes sections for 'Tags', 'Group By', 'Aggregators', and 'Alias'. A blue 'Add Query' button is at the bottom left.

Adicione um novo Painel e Selecione a opção Singlestat



The 'Graph' configuration panel is shown with several tabs: General, Metrics, Axes, Legend, Display, and Time range. The 'Metrics' tab is highlighted in yellow. A callout box points to the 'Data Source' dropdown menu, which is set to 'rrichter'. Another callout box points to the 'Metric' dropdown menu, which is set to 'rrichter.IOT.Analog_1'. A third callout box points to the 'Metric' field, which contains the text 'usuario_proficloud.device_proficloud.variavel'.

Opções de configuração visual da variável Metrics

Origem da variáveis Metrics

Variável Metric
"usuario_proficloud.device_proficloud.variavel"