Ethernet Adapter

How to configure Ethernet Adapter

Commercial Refrigeration Application Expert Center

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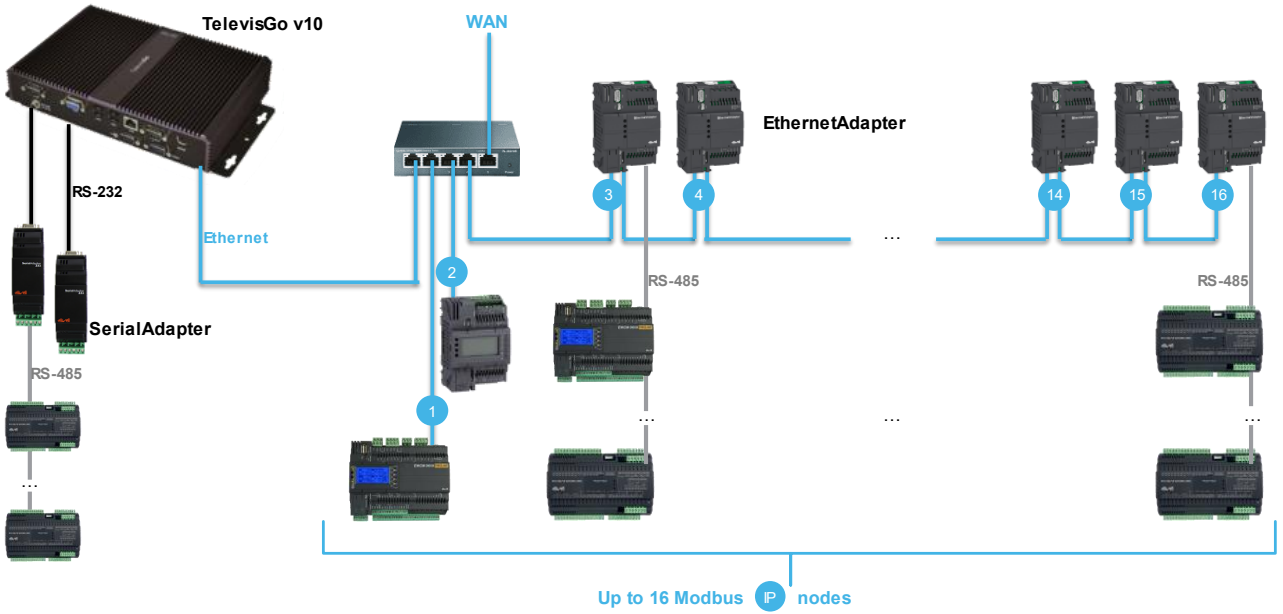
EthernetAdapter - Overview for TelevisGo

- EthernetAdapter is a Modbus/TCP – Modbus/RTU gateway for TelevisGo
- With up to 16 Ethernet Adapter configurable in TelevisGo it is possible to split a large network into multiple small segments.



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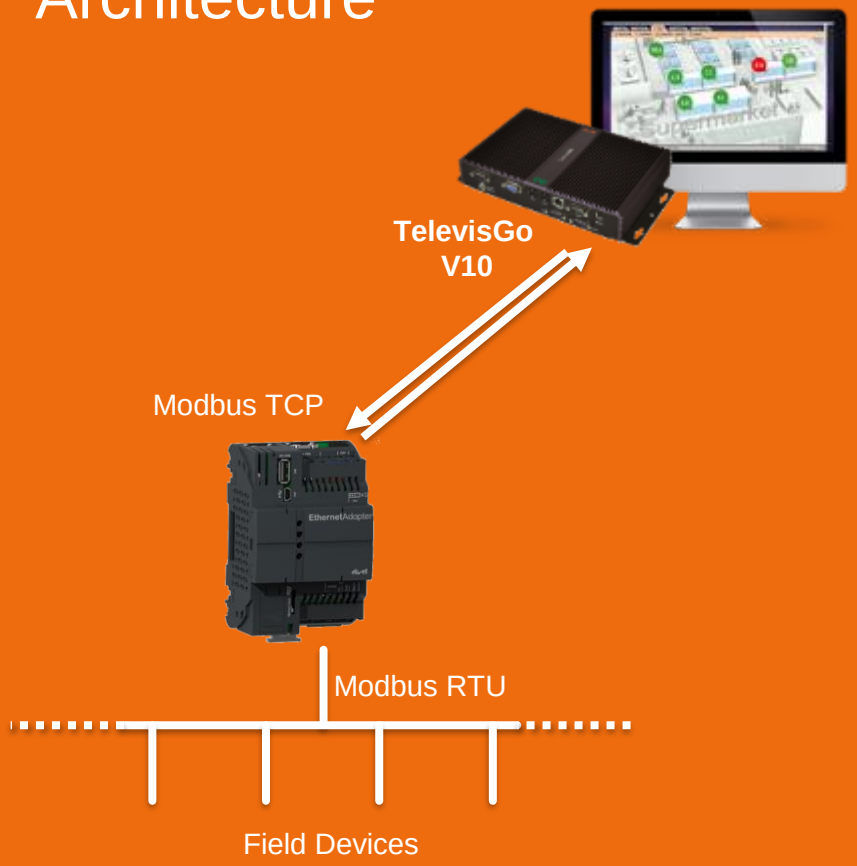
Architecture



1	Overview
2	Hardware setup
3	Ethernet setup
4	Ethernet configuration
5	First Login
	Ethernet protocol setup
	TelevisGO setup
	How To

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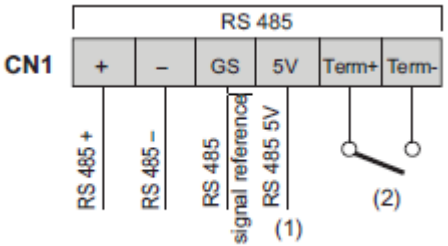
EthernetAdapter - Hardware setup

The power supply shall be 24VAC(11VA) or 24VDC (8W).

If powered the Green Power led will be activated.

The RS485 connector pin out is reported below.



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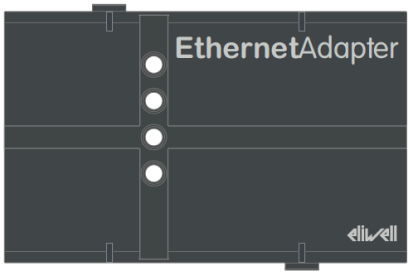
EthernetAdapter - Overview notes

P/N	Description
AVS00GW080501	EthernetAdapter

- Modbus/TCP to Modbus/RTU bridge for use with Televis systems
- All Modbus/RTU instruments must share the same serial settings
- Default value “RS485 Modbus RTU Timeout” parameter: 500ms
- Can manage up to 32 Modbus/TCP Socket



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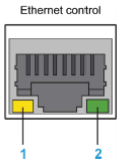
EthernetAdapter - Hardware setup

The ether port ETH1 and ETH 2 are configured as an Ethernet switch.

Tip:

Ethernet led will help to detect connection status

Label	Signal	LED		
		Color	Status	Description
1	Ethernet activity	Yellow	Off	No activity
			Flashing	Activity
2	Ethernet link	Green	Off	No link
			Green On	Linked



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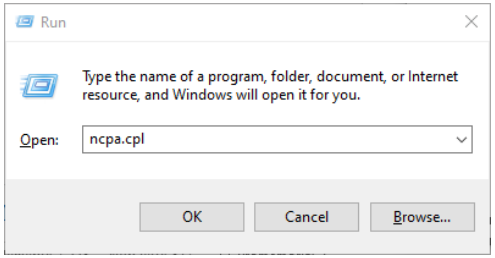
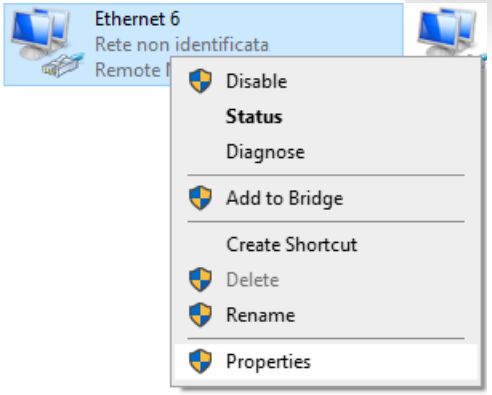
EthernetAdapter – connection with mini-USB cable

To configure the EA (Ethernet Adapter) the first operation is to power supply and connect to a PC via USB-mini cable.

Press Windows + R and type “ncpa.cpl”, to quick access to the Network Connections control panel



A new ethernet interface will be available, right click an select “properties”



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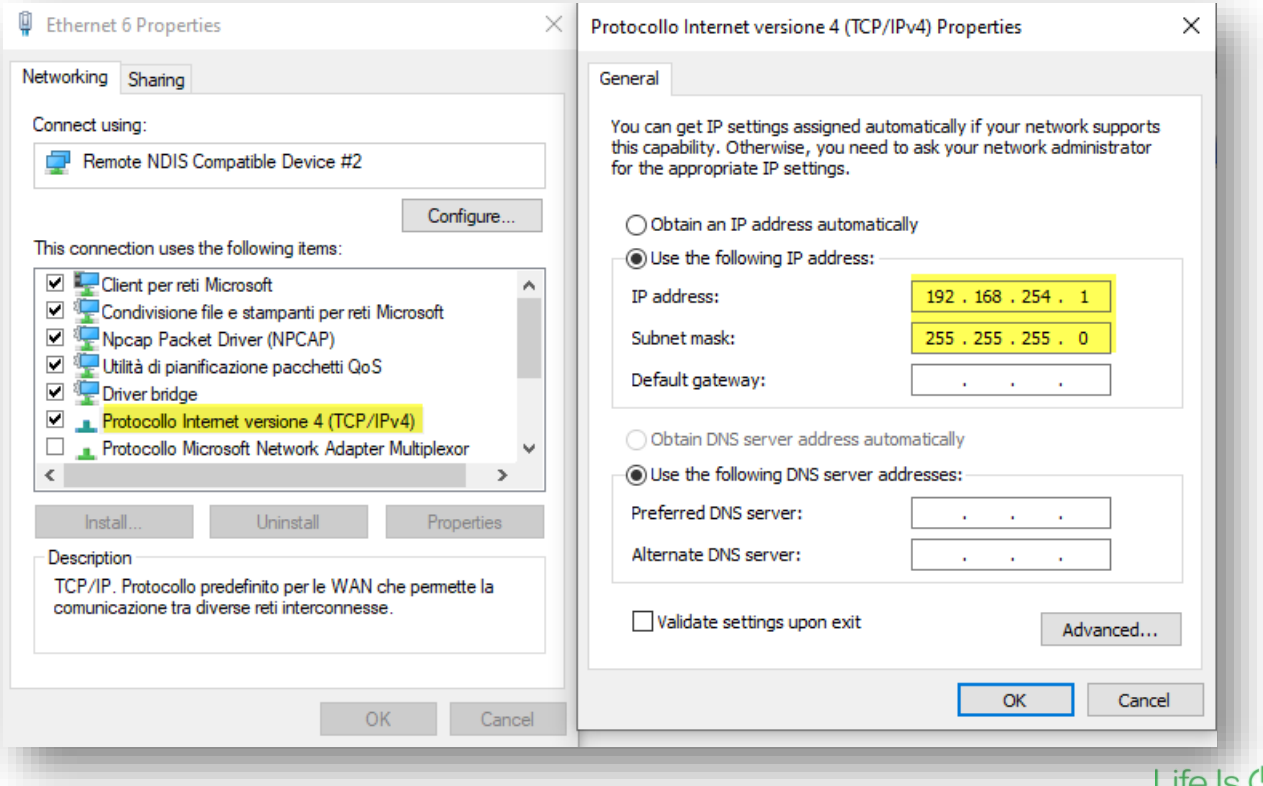
EthernetAdapter – connect with mini-USB cable

Edit the TCP/IPv4 protocol and set the static IP address as highlighted below



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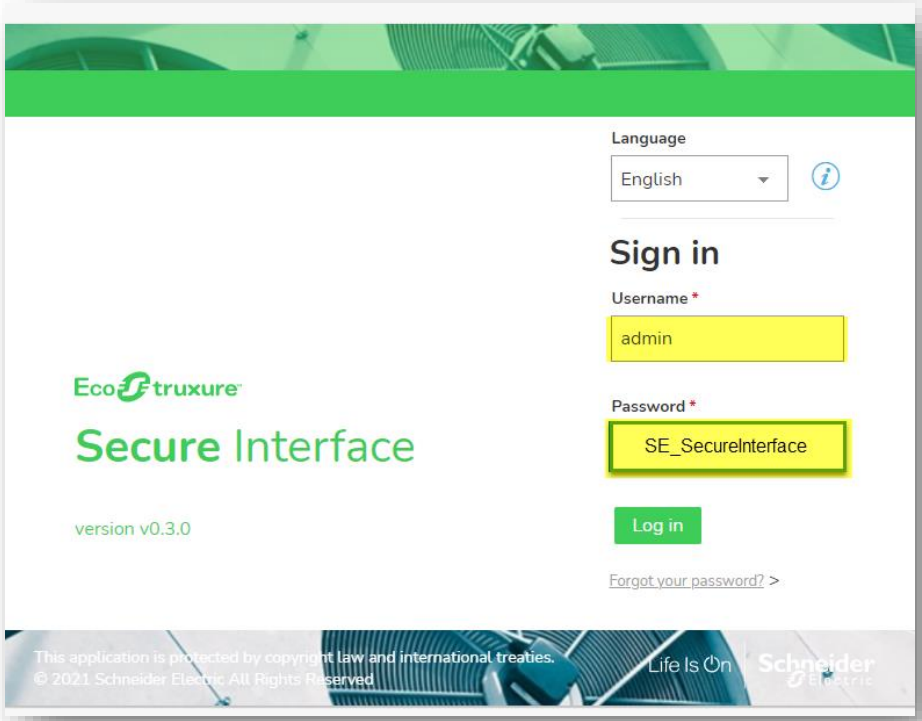
EthernetAdapter – first login

From the web browser type the url address of the secure interface **https://192.168.254.254**

Type the factory credential and click on the log in button.

Enter the new credential requested only at the first login attempt for Admin and Config users



Tip:

Multiple error on the login page will

Block the access to the web page.

A reboot will be necessary to restore the WebApp login page.

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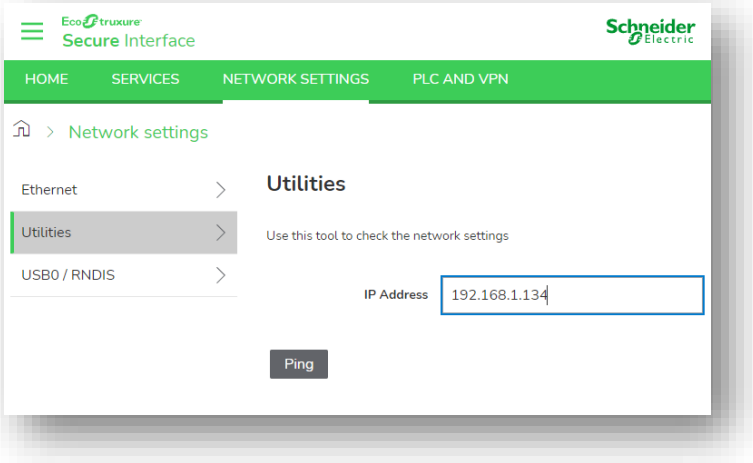
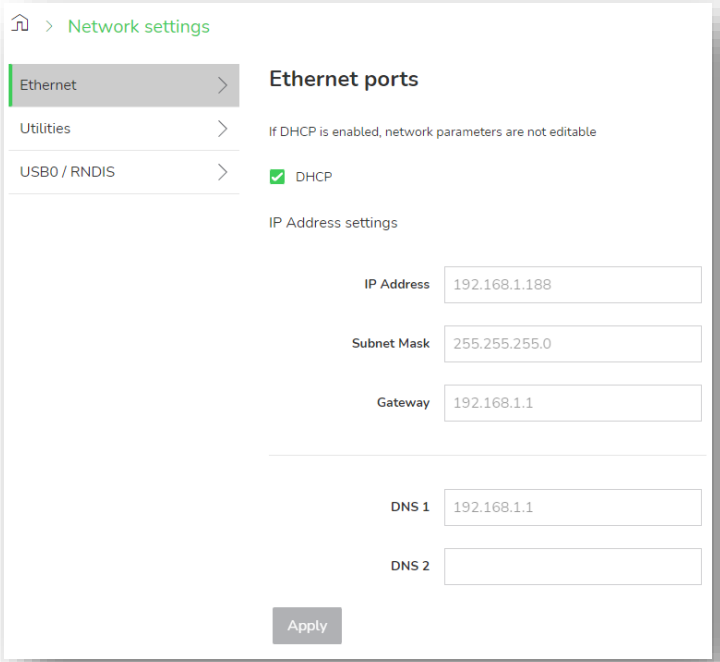
EthernetAdapter – Ethernet IP address setup

From the web app select the ethernet configuration and set the Ethernet port configuration to reach the Ethernet adapter.

Set the DHCP option or set a fixed IP configuration.

Test the ethernet connection from the EA to the TelvisGo with the Ping utilities





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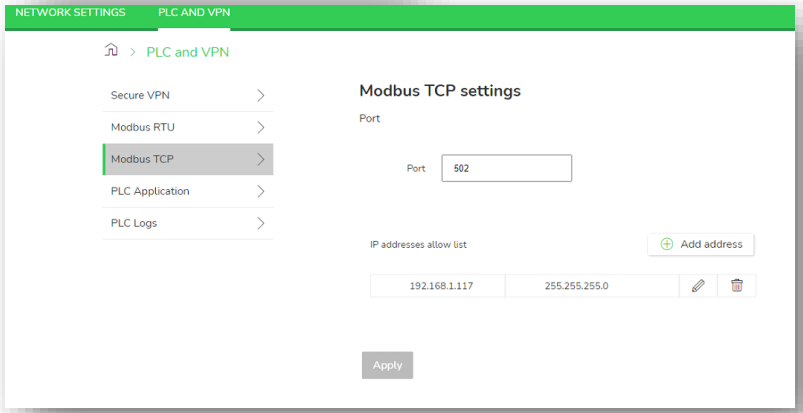
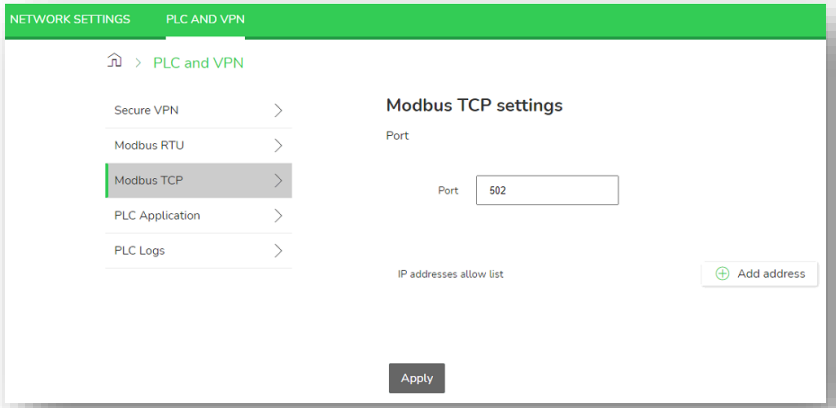
EthernetAdapter – Ethernet IP address setup

From the web app select the PLC AND VPN , open Modbus TCP settings.

Add the TelevisGo IP address and subnet mask to allowed list.





Apply the modification.

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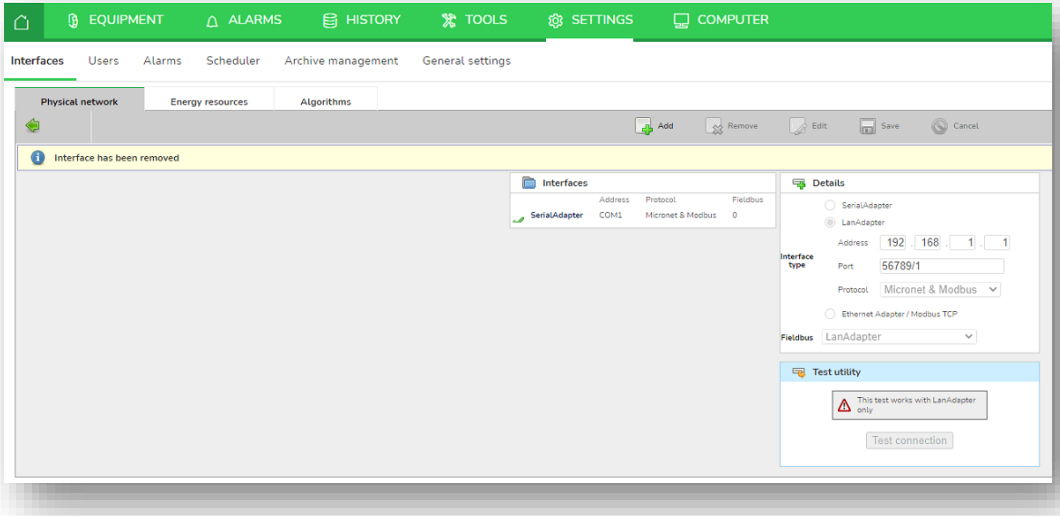
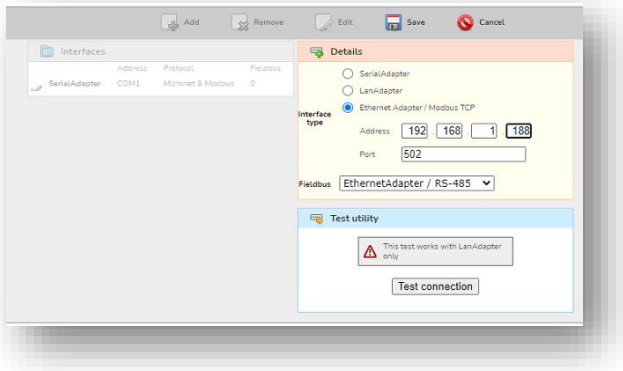
TelevisGO setup

Open web app of TelevisGo and open Interface settings.

Press 'Add' for create a new interfaces.

1) Select 'Ethernet Adapter'.
2) Insert IP address of Ethernet Adapter and set the port as 502.
3) Save the configuration.





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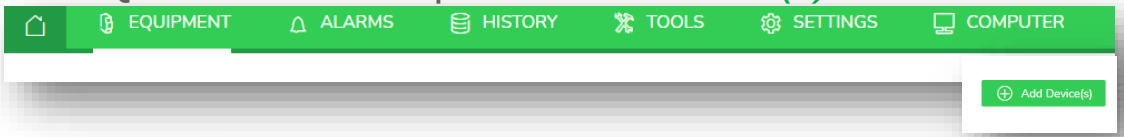
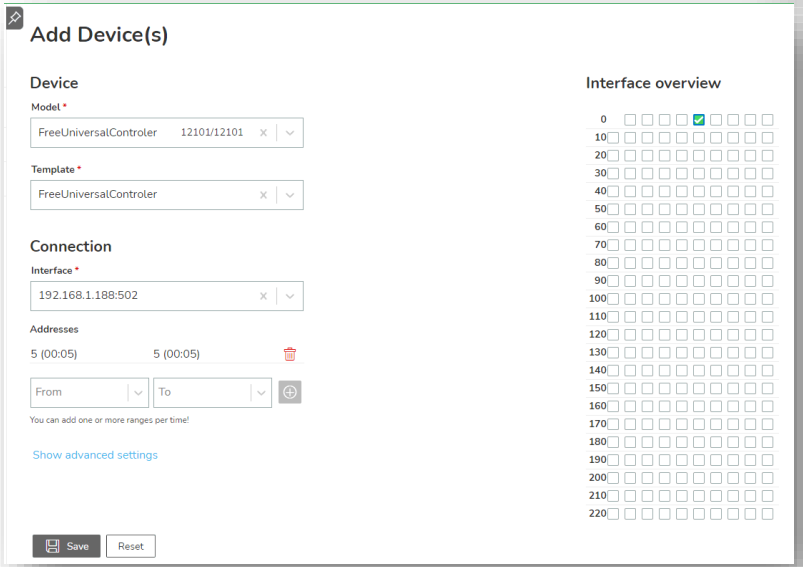
TelevisGO setup

After saved the interface, return to EQUIPMENT and press *Add Device(s)*



1) Choose the model of controller
2) Choose the Equipment Profile
3) Select the interface created before (IP address)
4) Add the Modbus device address od the controller(s)
5) Press Save to complete



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EthernetAdapter – How To Reset the login credential

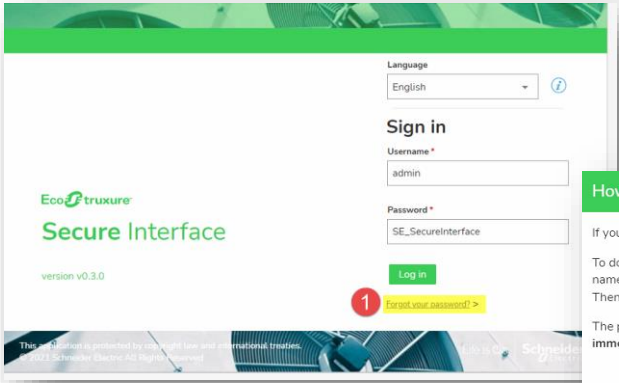
1) Select “Forgot your password.

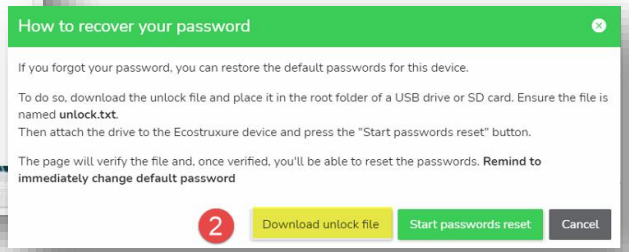
2) Download the unlock file and copy it in an empty USB memory.

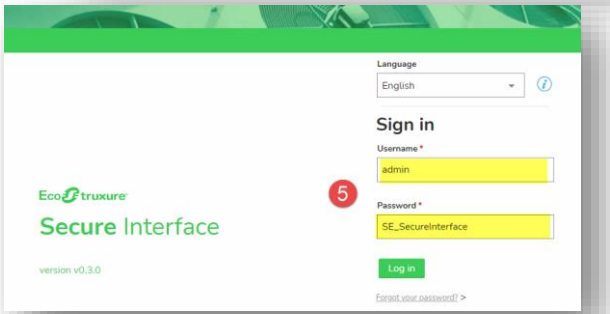
3) Plug the USB memory in the ethernet adapter

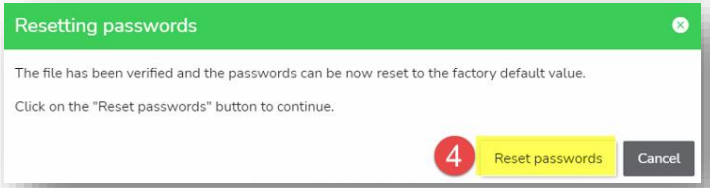
4) Reset the password

5) Enter the default credentials









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