



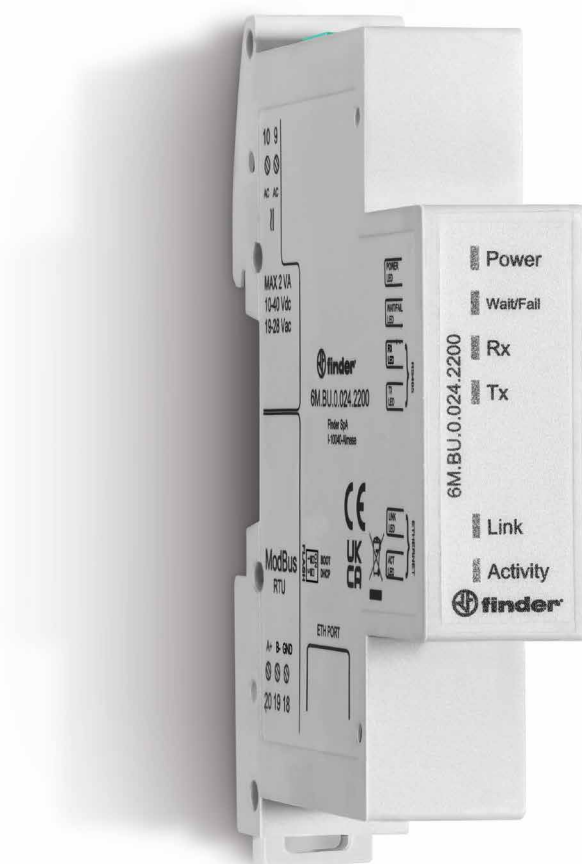
6M.BU – User Guide

Modbus RS485 RTU – Modbus TCP/IP Gateway
with on-board web server interface

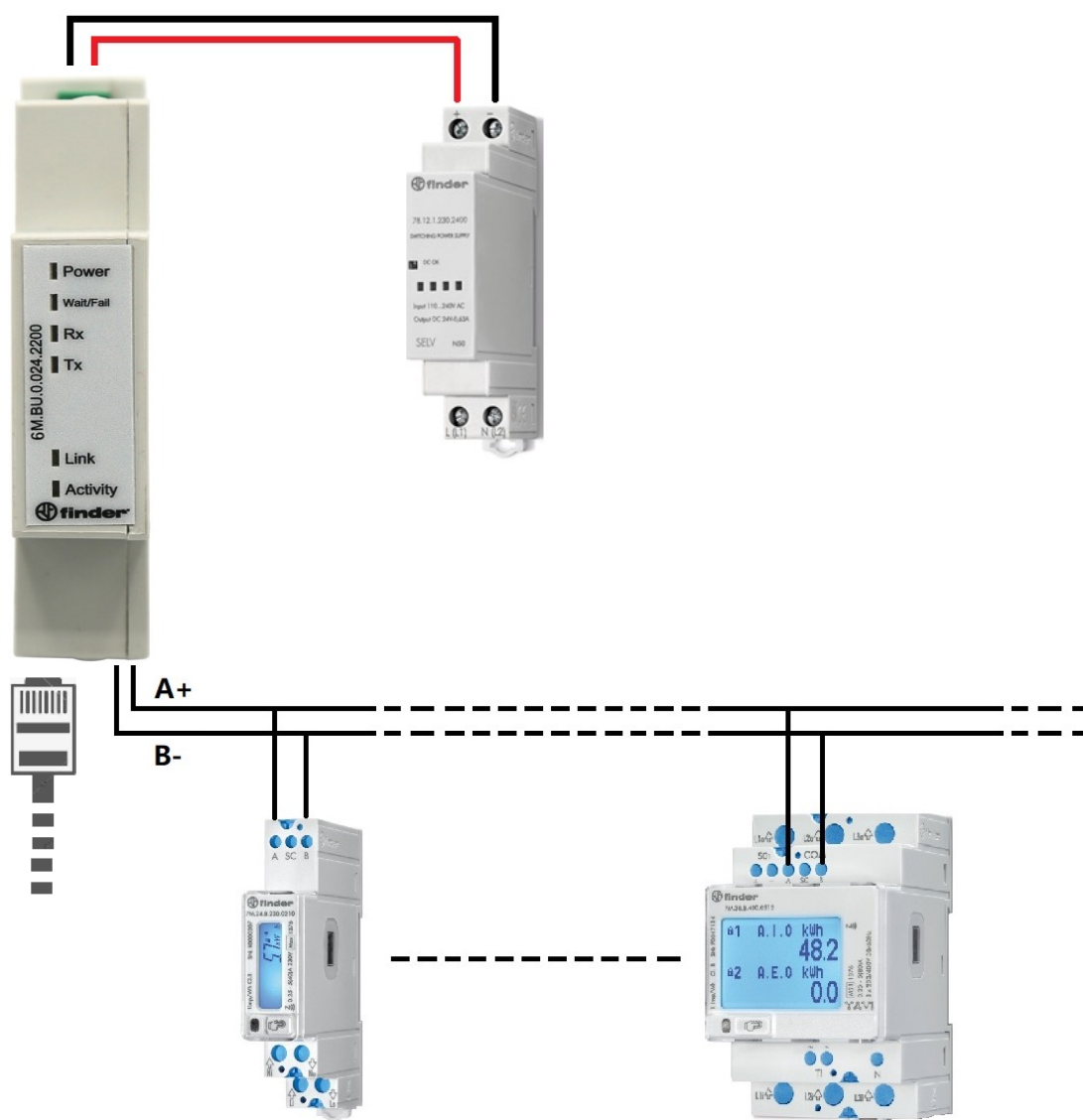
SUMMARY

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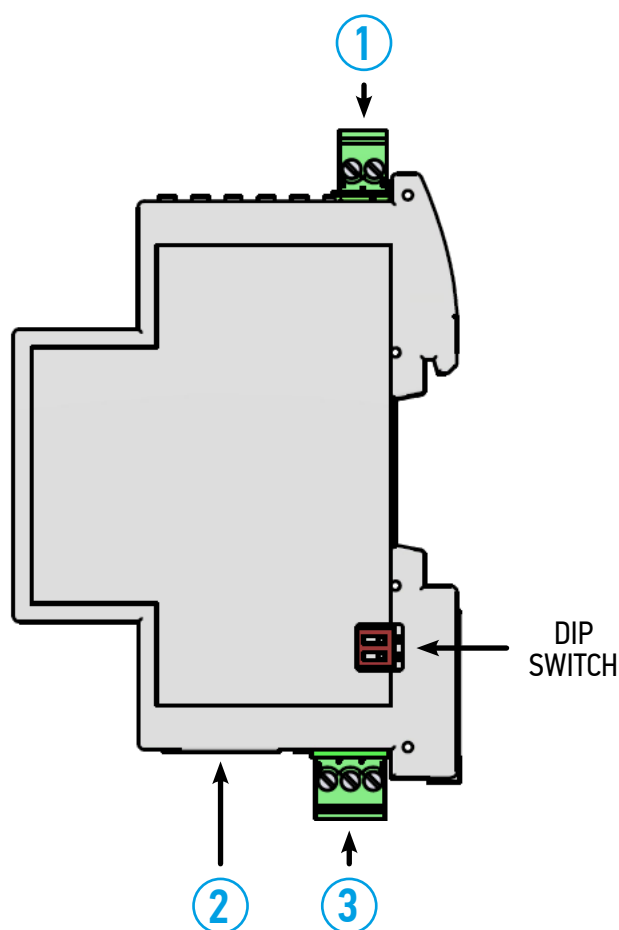


The 6M.BU.0.024.2200 provides a Modbus TCP/IP interface for up to 200 Modbus RS485 RTU devices; communicating with up to 10 clients at the same time.



IMPORTANT

Before proceeding with programming it is first necessary to set the DIP switches to enable programming and access to the local network.



THE 6M.BU REQUIRES A 24 V AC OR DC POWER SUPPLY

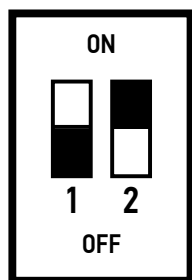
- 1 - Power supply connector. The 6M.BU must be connected to a power supply with 12 or 24 V output voltage
- 2 - RJ45 connector for ETH cable
- 3 - Modbus RS485 shielded cable connector

To power the device correctly, we recommend using Finder power supply Type 78.12.1.230.2400 to power the device at 24 V DC, or Type 78.12.1.230.1200 to power at 12 V DC.

Both are 12 W power supplies; the choice of voltage being made according to the power supply voltage required for other components in the panel.

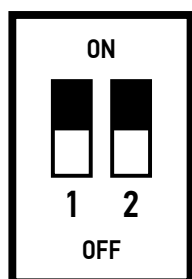
If it is necessary to use a power supply with higher power, please view our catalog or the website page:
<https://cdn.findernet.com/app/uploads/S78IT.pdf>

DIP SWITCH



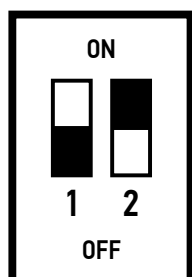
1: ON
2: OFF

Default communication parameters (192.168.178.29; 115200, 8, N, 1)
This DIP switch setting allows access using the factory set parameters



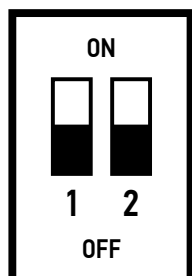
1: OFF
2: OFF

This DIP switch setting allows use of the parameters set by the user and stored in the internal memory. If the DIP switches are not in this position the 6M.BU will operate with the default parameters. Once the setting has been done, it is necessary to remove and re-apply the supply voltage to the 6M.BU in order to upload the parameters as set



1: OFF
2: ON

DHCP Enabled

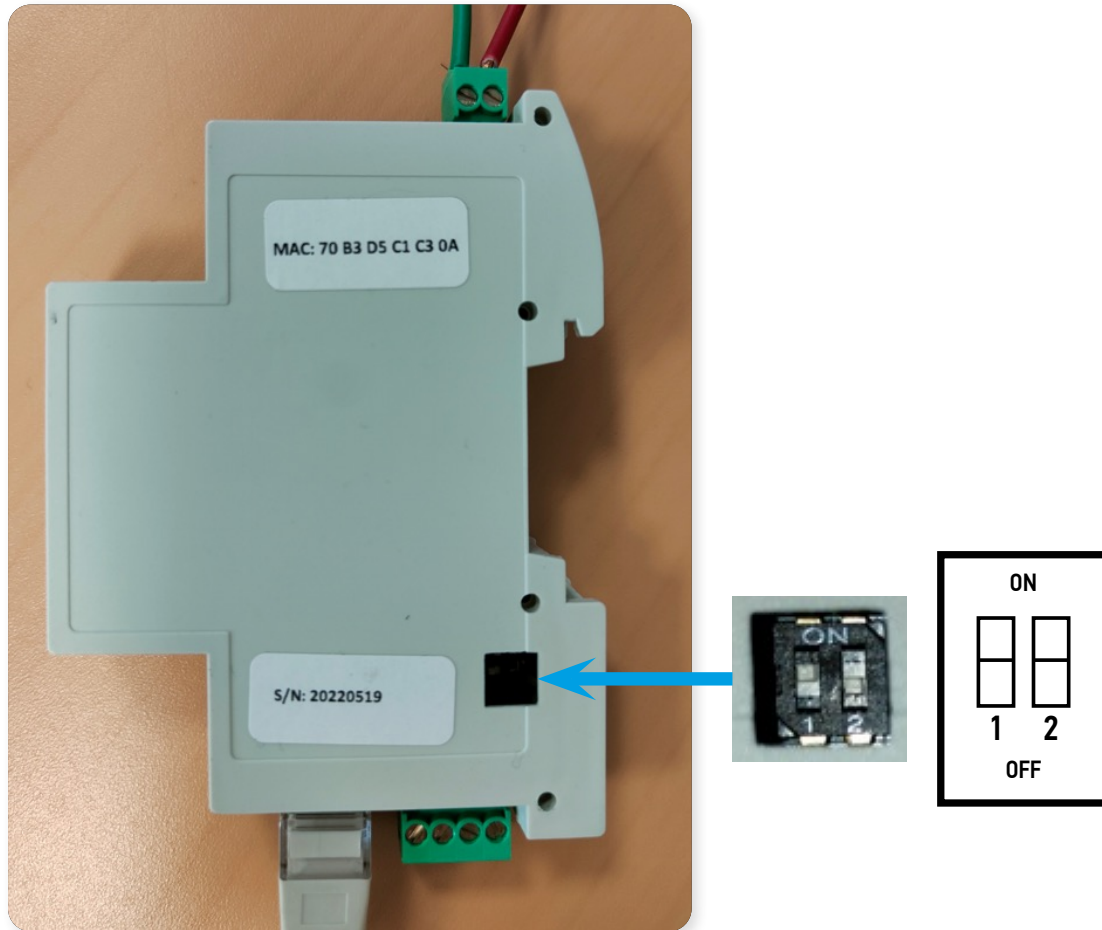


1: ON
2: ON

Enabling for firmware update (BOOT LOADER)

LED			
FUNCTION	COLOUR	STATUS	MEANING
Power	Green	ON	Power supply OK
Wait/Fail	Yellow	Wait: slow blinking	Waiting for Ethernet communication
		Fail: fast blinking	ETH communication in progress (or Bootloader activated)
RX	Red	Blinking	Receives data from RS485
TX	Red	Blinking	Transmits data from RS485
Link	Yellow	ON	ETH connection ready
Activity	Yellow	Blinking	ETH activity in progress

WINDOWS SETTINGS TO CREATE LOCAL NET SUITABLE FOR 6M.BU



CONTROL PANEL

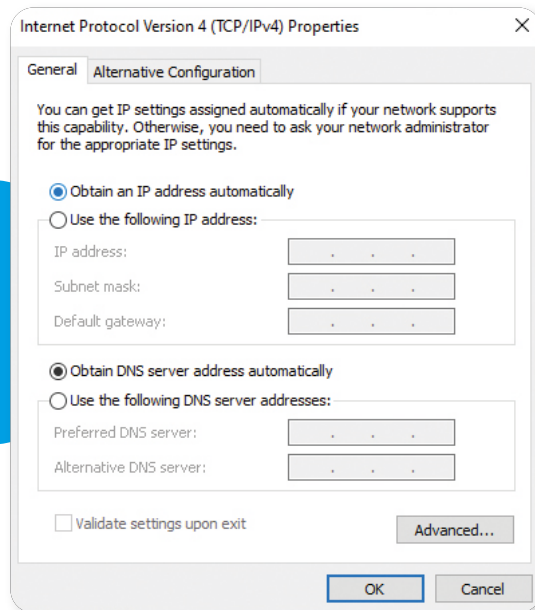
SELECT: Network and sharing center

SELECT: Change Ethernet settings

Right click > "Ethernet" > Properties

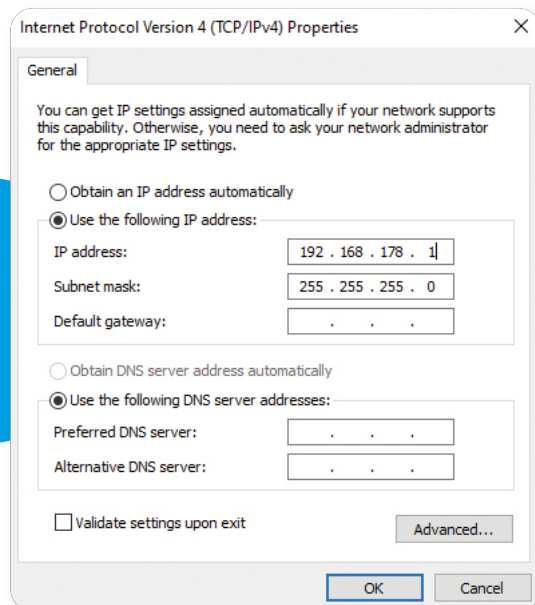
Internet protocol version 4 (TCP/IPv4) > Properties

01



SELECT: use the following IP address
WRITE IN "IP ADDRESS": 192.168.178.1
PRESS "Tab" or click on "subnet mask"

02

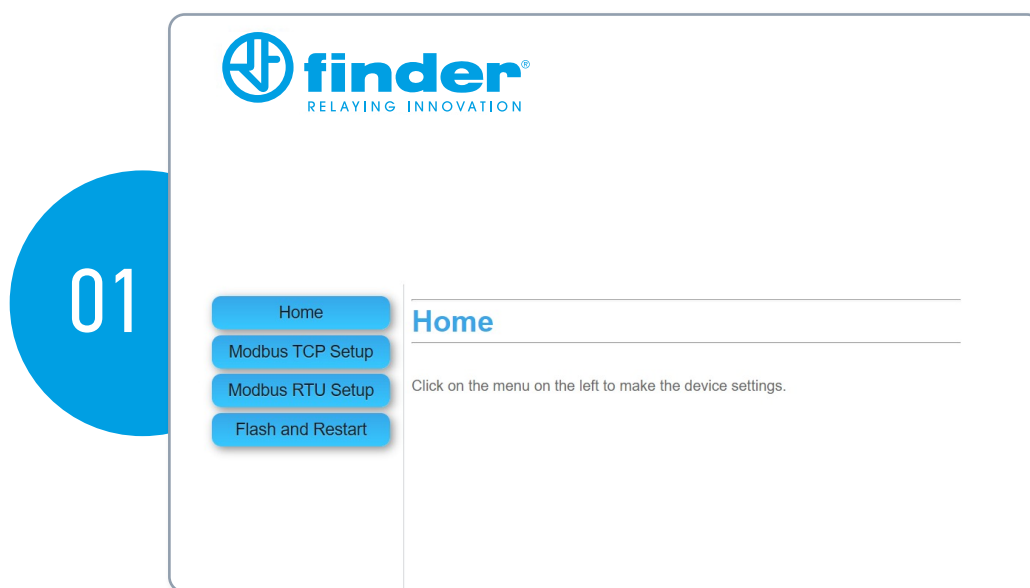


CLICK ON: OK, then Close

Click on Chrome

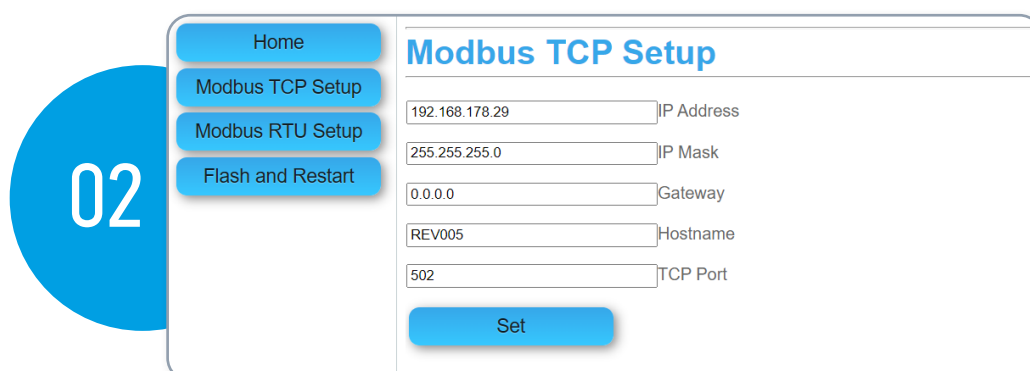
TYPE IN THE URL BAR: 192.168.178.29

PRESS "Enter" and we are connected to the 6M.BU



PRESSING ON Modbus TCP Setup

It is possible to type in the parameters of the network on to which the 6M.BU is installed



SELECT Modbus RTU Setup

In order to set the protocol ModBus RS485 parameters

03

Home

Modbus TCP Setup

Modbus RTU Setup

Flash and Restart

Modbus RTU Setup

Baud Rate

☒ None
 ☐ Even
 ☐ Odd ...Parity

 Timeout (ms.)

Set

Once the settings have been made, click on Flash and Restart

Done! The 6M.BU is programmed and ready to be used with the new settings

IMPORTANT

Switch off 6M.BU by removing the power supply.

Move the DIP switch 1 to OFF position (both DIP switches must be positioned to “0” - OFF).

Power up the 6M.BU and it will start to work using the new parameters set.

finder

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NETWORK ADAPTER SETTINGS RESET WINDOWS NETWORK SETTINGS RESET

CONTROL PANEL

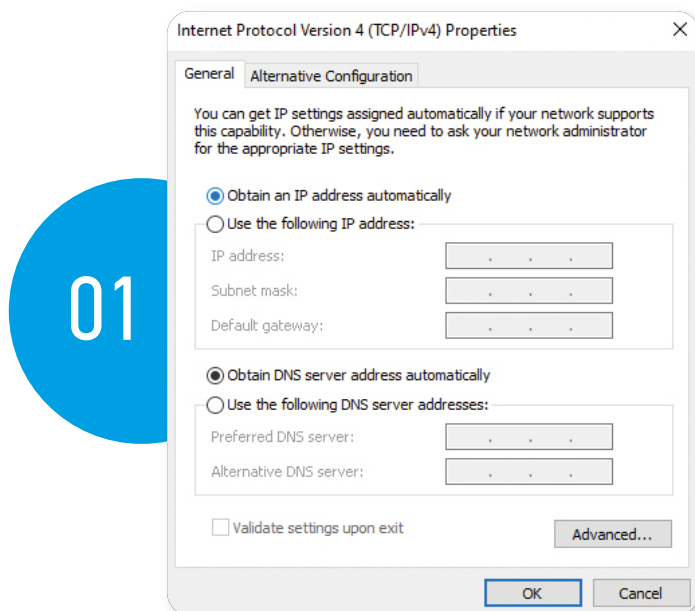
SELECT: Network and sharing center

SELECT: Change Ethernet settings

Ethernet

Right click > Properties

Internet protocol version 4 (TCP/IPv4) > Properties



SELECT: "Automatically obtain IP address"

CLICK ON: OK, then Close

