

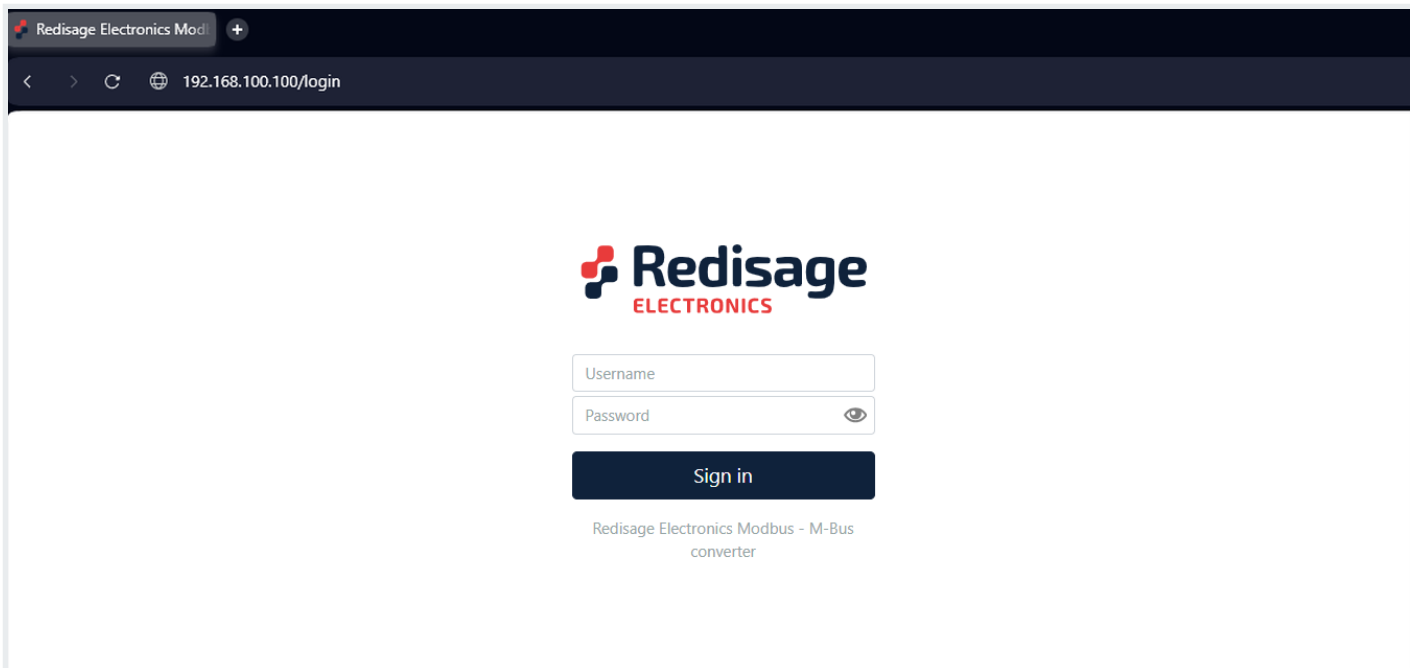
Configuration by the Web Page

Modbus TCP/RTU M-bus Gateways (G20, G30)

This page presents capabilities of the Converters configuration. First, make sure that the converter is connected to the power supply and to the LAN using a patchcord or wireless via Wi-Fi. If the device has no static IP set up, it will be necessary to obtain its IP address in the local network. User interface is mostly similar for all gateways, but some subpages might be different for several models depending on amount of interfaces. In order to avoid issues, click on a “Help” button in the top right corner on every page.

Login

To access the web page, open the browser, type the device’s IP address of the converter (default is **192.168.100.100**). Then log in using user’s personal credentials. If it is a first configuration or the converter had a factory reset, use default login details (login: **admin**, password: **admin123**).



The configuration is available only if devices are connected to the same Local Area Network as the computer used for it.

Status page

After a successful login, there should be an insight to a list of available connections. If there is more than one connection, it is possible to sort them by ID, timestamp or status.

Mbus Status

Help

status:	reg:	modbus UnitID:	mbus Slave Address:	time to the next scan [s]:
OK	40001	4	4	18
reg: 30001	value: 0000 0000 00AC 1844		vif: 4605	dif: 12
reg: 30007	value: 0000 0000 0000 470C		vif: 14	dif: 12
reg: 3000D	value: 0000 0000 0002 996A		vif: 19	dif: 12
reg: 30013	value: 0000 0000 0000 0000		vif: 45	dif: 12
reg: 30019	value: 0000 0000 0000 0000		vif: 60	dif: 12
reg: 3001F	value: 0000 0000 0000 027C		vif: 90	dif: 11
reg: 30025	value: 0000 0000 0000 00CC		vif: 94	dif: 11
reg: 3002B	value: 0000 0000 0000 10EA		vif: 97	dif: 11
reg: 30031	value: 0000 0000 0002 6587		vif: 34	dif: 4
reg: 30037	value: 07E1 038F 0000 0000		vif: 109	dif: 4
reg: 3003D	value: 0000 0000 0000 0000		vif: 6141	dif: 1

Changing username or password

After clicking “Edit User” under the user icon, it is possible to change the username or the password.

Redisage **Status** Ports Network Device

Edit User
Sign Out

Configuration


MBUS Request Update Period: Seconds


MODBUS TCP Idle Time [s]:

Help

Change User Credentials ×

Username

Password 

Password Again 

If login details were forgotten, it would be necessary to do a factory reset via a USB/UART converter and a serial console.

Ports configuration

Configuration

Help

MBUS Request Update Period [s]

MODBUS TCP Idle Time [s]

Ports Configuration

<p>Port MM+ MM-</p>	<p>Mode <input type="text" value="MBUS"/></p> <p>Baud Rate <input type="text" value="9600"/></p> <p>Parity <input type="text" value="Even"/></p>	<p>M-Bus Slave Addresses <input type="text" value="4"/></p> <p>Slaves Response Timeout [ms] <input type="text" value="500"/></p> <p>Stop Bits <input type="text" value="1"/></p>
<p>Port Tx-Rx/A-B</p>	<p>Mode <input type="text" value="MODBUS"/></p> <p>Baud Rate <input type="text" value="2400"/></p> <p>Parity <input type="text" value="Even"/></p> <p>Termination <input type="text" value="Disabled"/></p>	<p>M-Bus Slave Addresses <input type="text" value=""/></p> <p>Slaves Response Timeout [ms] <input type="text" value="Slaves Response Timeout"/></p> <p>Stop Bits <input type="text" value="1"/></p>

Save and Apply

Item		Description
MBUS Request Update Period		Choose M-BUS Request Update period.
MODBUS TCP Idle Time		Choose Modbus TCP Idle Time.
Mode	MBUS	Switch device's mode to M-Bus.
	MODBUS	Switch device's mode to Modbus slave.

Item	Description
Slaves	Type slave device address. Multiple addresses can be written in one field, e.g. 9;11;14-17;80.
Slaves Response Timeout	Type slave devices response timeout.
Baud Rate	Choose baud rate.
Parity	Type of parity.
Stop Bits	Number of stop bits.
Termination	Enable RS termination.

Make sure to save all the changes with “Save and Apply” button located on the bottom of the page.

Network settings

In this section, network settings can be changed according to target LAN parameters.

Network

Help

Hostname

DNS Address 1 (Primary)

DNS Address 2

Save and Apply

Ethernet

Configuration Method

The network configuration below is ignored if DHCP is chosen

IP Address

Netmask

Gateway

MAC Settings

MAC Address below is ignored if Default MAC Address is chosen.

MAC Address

Save and Apply

Wi-Fi

Wi-Fi Status ✔ Connected to: NSG 📶

Wi-Fi

Configuration Method

The network configuration below is ignored if DHCP is chosen

IP Address

Netmask

Gateway

MAC Settings

MAC Address below is ignored if Default MAC Address is chosen.

MAC Address

Save and Apply

Services

HTTP port

Telnet Port

Modbus TCP listening port

Save and Apply

Item	Description
Hostname	Label that is assigned to the device.
Configuration Method	Enable/disable the DHCP server. If the DHCP server is disabled, the IP address of the device has to be set manually.
IP Address	IP address of the device.
Netmask	Netmask associated with the IP address.
Gateway	Gateway address currently used by the device.
DNS Address	Domain Name System used by the device.
MAC Settings	Allow setting the default MAC address or typing it manually.
MAC Address	Allow changing the physical address of the device.
Wi-Fi (G30 only)	Scan and choose your network. Click on chosen and type password.
HTTP Port	Determine the port of the control panel.
Telnet Port	Allow connection with the device via Telnet.
Modbus TCP Listening Port	Used as an entry point for new Modbus TCP connections.



It is possible to obtain dynamic IP address. Just switch configuration method from static IP to DHCP (automatic). This process may cause some issues with identifying converters in LAN unless there is access to the device which is responsible for allocating IP addresses.

Keep in mind that in case of changed IP address, user needs to type new IP in the address bar and log in again.


Make sure to save all the changes with "Save and Apply" button located on the bottom of the page.

Device page

On the device page there are tools used to a firmware update, a factory reset and a device reboot. There are also some information about the device.

 Status Ports Network **Device** **G30**  9:45

Tools



Firmware Update
Factory Reset
Reboot



About

Firmware: 1.0.0
Model: G30
Serial Number: 000000000002252
Frontend: 1.0.0

Item	Description
Firmware Update	Update firmware.
Factory Reset	Restore default ports settings and default network configuration.
Reboot	Reboot the device.
About	Basic information about the device.

Firmware update

The device firmware update must not be interrupted. Update the device only if experiencing issues, being instructed to do so by our support or requiring the latest features/bugfixes. Failure during the update may 'brick' the device and make it unusable.

 Status Ports Network **Device** **G30**  9:30

Firmware Update

WARNING: Device firmware upgrade must not be interrupted. Upgrade your device only if you experience issues, were instructed to do so by our support or require the latest features/bugfixes. Failure during the upgrade may 'brick' the device and make it unusable

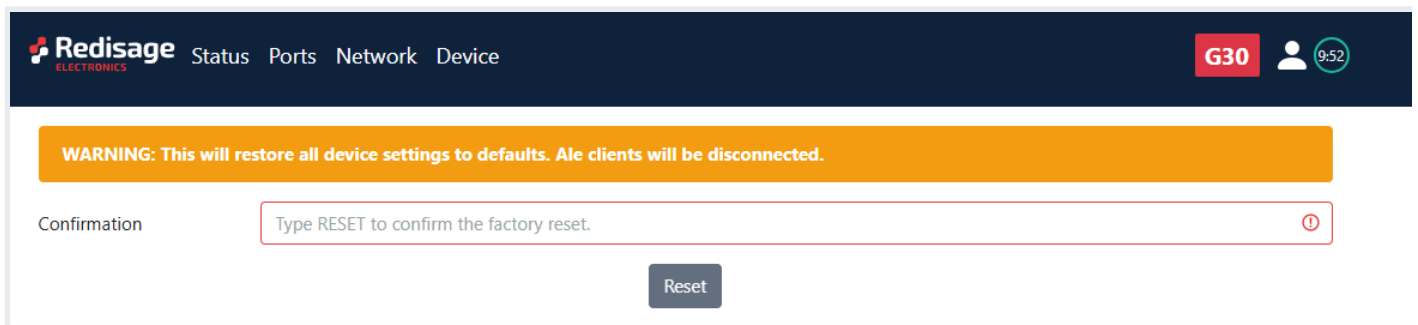
Browse Update

Select the firmware upgrade package downloaded from our site. Installing unofficial firmware is not supported.

Use the **modbus-mbus-mcu-esp32.fir** file for a firmware update.

Factory reset

To restore default settings, press the red button. After that, user will be asked to type "RESET". Then it will take a few seconds to reload the web page and restart the device. After reset, use default login details (login: **admin**, password: **admin123**; default IP: **192.168.100.100**).



The screenshot shows the Redisage Electronics web interface. The top navigation bar includes the logo, menu items (Status, Ports, Network, Device), a red 'G30' button, a user profile icon, and a clock showing 9:52. A prominent orange warning banner reads: "WARNING: This will restore all device settings to defaults. All clients will be disconnected." Below this, a confirmation section is displayed. It features a label "Confirmation" on the left, a text input field containing "Type RESET to confirm the factory reset." with a red border and a red 'X' icon on the right, and a dark grey "Reset" button centered below the input field.

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