

# Configuration by the Telnet Console

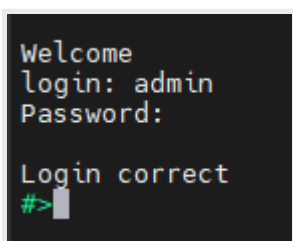
## Modbus TCP/RTU M-Bus Gateways (G20, G30)

The device can be also configured via the Telnet Console. Firstly, make sure that converter is connected to the power supply and to the LAN using a patch cord. Knowledge of the device's IP address (default is **192.168.100.100**) and Telnet port number (default is **23**) is necessary to establish a connection.

Use command below in a terminal window to connect to the device:

```
telnet <ip_address> <port_number>
```

If the connection is successful there will be login prompt visible. Login using user's personal credentials or the default login details (login: **admin**, password: **admin123**). If login is successful, it will be possible to start typing configuration commands.

A terminal window screenshot with a black background and white text. The text reads: 'Welcome', 'login: admin', 'Password:', 'Login correct', and '#>' with a cursor. The '#' character is green.

```
Welcome
login: admin
Password:
Login correct
#>
```

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

## List of all commands

Command	Description
help	Print the help.
conn	Print active TCP connections.
net_stat	Print lwIP statistics.
eth_mac	Print or change MAC address.
wifi_mac	Print or change Wi-Fi MAC address
ipconfig	Print or change the network configuration.
http_port	Print or change default http port.
telnet_port	Print or change default telnet port.
modbus	Print or changes modbus settings.
ping	Check internet connection with the desired host.
defaults	Reset application variables to defaults
restart	Restart the system.
user	Print or change user configuration.
sys_heap_usage	Print current heap usage.
mbus	Print or changes M-Bus ports settings.
wificonf	Wi-Fi interface configuration
exit	Exit console.

## Modbus ports configuration commands

- **modbus**

- **modbus help**

Print command help.

- **modbus tcp\_port PORT\_NUMBER**

Set modbus port to PORT\_NUMBER. A PORT\_NUMBER value must be in range:  
1-65535

Example: modbus tcp\_port 502

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- **modbus idle\_time TIME**

Set the timeout when waiting for the client's data [in milliseconds].

A TIME value must be in range:

0-4294967295

Example: modbus idle\_time 50000

- **modbus status**

Print current modbus tcp\_port as well as idle\_time.

Example: modbus status

A current tcp port is 502.

A current idle time is 50000 [ms].

## M-Bus ports configuration commands

- **mbus {com\_number} {subcommand} [arguments]**

Print or change mbus\_ports configuration

*com\_number* - COM port number, as labeled in device's manual, to which mbus applies.

This field is ignored for the subcommands 'period', 'availability' and 'help'

*subcommand* - subcommand to execute

*arguments* - subcommand parameters

- **mbus help**

Print current modbus tcp\_port as well as idle\_time

- **mbus mode [MBUS/MODBUS/DISABLED]**

Sets port mode.

MBUS - Operates as an M-Bus master polling slave devices.

MODBUS - Acts as a Modbus slave, providing access to MBUS register data.

- **mbus add\_slaves [SLAVE\_ADDR ;/- SLAVE\_ADDR, \*][]**

Sets all addresses of slaves connected to com\_port.

A star in value means fill rest free slaves. It means all slaves that are not set to other ports will be set to this one.

Example: mbus 1 add\_slaves 124

Example: mbus 1 add\_slaves 12-124

Example: mbus 1 add\_slaves 12;14;18

Example: mbus 1 add\_slaves 12;14-17;150-200

Example: mbus 1 add\_slaves 12;14-17;150-200, \*

- **mbus availability**

Lists the actually reachable slaves

Example: mbus available

- **mbus show\_slaves**

Show addresses of slaves connected to com\_port

Example: mbus 1 show\_slaves

- **mbus baud [RATE]**

Sets the baudrate to RATE. For a list of acceptable baudrates please refer to manual.

Example: mbus 1 baud 9600

- **mbus bits [PS]**

Sets parity to P and stop bits to S. Valid values are:

P: N, E or O

S: 1 or 2

Example: mbus 1 bits N1

Example: mbus 2 bits O2

- **mbus data**

Show data at desired address. 'com\_number' is an address of MBUS slave

Example: mbus 4 data

- **mbus period TIME**

Sets the period of readouts from the slaves to TIME [in seconds].

A TIME value must be in range:

1-4294967295

Example: mbus period 30

- **mbus resp\_to TIME**

Sets the response timeout to TIME [in milliseconds].

A TIME value must be in range:

0-65535

Example: mbus 1 resp\_to 30

- **mbus termination [on/off]**

Enable or disable termination on RS485 port

Example: mbus 1 termination on

If a subcommand which normally sets a value is not given an argument, it will print the current value.

Example:

```
#>mbus 2 baud
```

```
Set baudrate is 9600
```

## Network settings

The following commands might be helpful to change network settings according to target LAN parameters,

- **ipconfig**

- **ipconfig addr ADDRESS**

Set IP address to ADDRESS.

Example:

```
ipconfig addr 192.168.0.10
```

- **ipconfig mask NETMASK**

Set subnet mask to NETMASK (in dot-decimal format).

Example:

```
ipconfig mask 255.255.255.0
```

- **ipconfig mask BIT\_COUNT**

Set subnet mask to BIT\_COUNT bits.

Example:

```
ipconfig mask 24
```

- **ipconfig gateway GATEWAY\_IP**

Set network gateway to GATEWAY\_IP.

Example:

```
ipconfig gateway 192.168.0.1
```

- **ipconfig dhcp [enable/disable]**

Enable or disable DHCP client.

Example:

```
ipconfig dhcp enable
```

- **ipconfig dns<num> ADDRESS**

Set DNS to ADDRESS, disable getting DNS from DHCP if enabled.

Example:

```
ipconfig dns1 192.168.100.1
```

- **ipconfig default\_netif [NETIF\_NAME]**

Sets interface as a default. If interface name is not given, displays current default interface.

Example: default\_netif e02

- **http\_port**

- **http\_port help**

Print the help message.

- **http\_port PORT\_NUMBER**

Set http port to PORT\_NUMBER. A PORT\_NUMBER value must be in range: 1-65535.

Example:  
http\_port 80

- **http\_port status**  
Print current http port.

Example:  
http\_port status  
A current http port is 80

- **telnet\_port**

- **telnet\_port help**  
Print the help message.

- **telnet\_port PORT\_NUMBER**  
Set Telnet port to PORT\_NUMBER. A PORT\_NUMBER value must be in range: 1-65535.

Example:  
telnet\_port 23

- **telnet\_port status**  
Print current Telnet port.

Example:  
telnet\_port status  
A current telnet port is 23

## Changing username or password

To change username or password, use user command. Available commands:

- **user help**

Print the help message.

- **user mod\_name USER\_NAME NEW\_NAME**

Change the user name to NEW\_NAME. It fails if the name is used by another user.

Example:  
user mod\_name admin NEW\_NAME

- **user passwd USER\_NAME**

Change USER\_NAME's password.

Example:  
user passwd admin

\*\*\*\*\* <- here is entered password, but '\*' appears instead

Note: Everyone can change the password for themselves.

## Additional notes

After some time of inactivity, session will be disconnected automatically.

In order to avoid issues like connecting to host, type "help" to get more information.

To get more details about every particular command, append "help" after each commands (example: "ipconfig help").

Factory reset is not available from the Telnet Console level.

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Revision #2

Created 12 August 2025 11:11:22 by Michał Grabski

Updated 25 August 2025 09:37:39 by Michał Grabski