Configuration by the Telnet Console

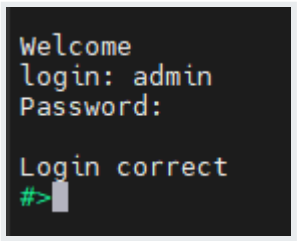
Modbus TCP/RTU M-Bus Gateways (G20, G30)

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.



> 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 miliseconds].

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 miliseconds].
  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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