

Tables

Specification

Redisage PN		G01	G02	G03	G14	G15	G16
Ports	RS232	2x	-	-	4x	2x	-
	RS485	-	1x	-	-	2x	4x
	RS232/RS485	-	-	2x	-	-	-
Microcontroller		ESP32			STM32F4		
WiFi		N/A					
Power	Voltage	12-30 VDC					
	Power	< 1 W					
Frame ground connection		yes					
Baud rate		up to 115200 bps					
LED indicators		communication Tx, Rx and power					
RS485 termination		120 ohm manually enabled					
Connector	RS232/RS485	8-pin terminal block max. 2.5 mm ² wire					
	Power	3-pin terminal block max. 2.5 mm ² wire					
	Ethernet	RJ45					

Configuration by the Web Page

Ports page

Item		Description
Internal Modbus Address		Internal Modbus Address is qualified by the Gateway/Router as a request for internal resources. The Internal Modbus Address has a higher priority than the Gateway Slave Address.
Idle Time [s]		Determine a time thread waits for the TCP connection. If time expired, the connection and thread are closed. Used only in Gateway Mode.
UART Mode	Gateway	Define the port's role in the system. In the Gateway Mode the port is used to communicate with Modbus Slave.
	Router	Define the port's role in the system. In the Router Mode the port is used to communicate with Modbus Master. Note the Routing Configuration section below if the Router Mode is chosen.
	Disabled	Disable the port.
UART Protocol		Determine a protocol used for a communication.
Gateway Slaves		Addresses of Modbus Slave Devices connected to Gateway UART ports. Multiple addresses can be written in one field, e.g. 9;11;14-17;80. This field is available only in the Gateway Mode. Use * to select all not assigned addresses.
Slaves Response Timeout [ms]		Specify how long the device will wait for response from Modbus Slave.
Baud Rate		Determine the port's transmission speed over the data channel.
Data Bits		Determine the number of data bits in the port's message frame.
Parity		Enable/disable the parity check in the port's message frame.
Stop Bits		Determine the number of stop bits in the port's message frame.
Termination		Enable/disable termination on RS line.

Item	Description
Routing Slaves	Addresses of Modbus Slaves connected to Modbus Router. Multiple addresses can be written in one field, e.g. 9;11;14-17;80. Use * to select all not assigned addresses.
Slaves Response Timeout [ms]	Specify how long the device will wait for response from Modbus Slave.
IP/Hostname	Determine IP address or Hostname of Modbus Slave.
TCP Port	Determine TCP port of Modbus Slave.

Network page

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.
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.

Device page

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.

Configuration by the Serial Console

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.
ipconfig	Print or change the network configuration.
http_port	Print or change default http port.
telnet_port	Print or change default telnet port.
modbus_tcp_port	Print or change modbus port.
ping	Check internet connection with the desired host.
restart	Restart the system.
user	Print or change user configuration.
sys_heap_usage	Print current heap usage.
modbus	Print or changes modbus settings.
modbus_ports	Print or changes modbus ports settings.
modbus_routing	Print or change modbus routing settings.
exit	Exit console.

List of commands in the service mode

Command	Description
help	Print the help.
credits	Print current credits value for this device.
dev_ident	Print the device identification value.
restart	Restart the system.
serial_num	Print the serial number of this device.
version	Display the bootloader version.
xmodem	Download image to the internal flash using xmodem.
defaults	Reset application variables to defaults.
ipconfig	Print or change the network configuration.

Command	Description
flash_read	Read bytes from flash memory.
md	Read bytes from memory address.

In the service mode, the “ipconfig” command can only show a last static IP address.

Revision #4
Created 29 April 2024 13:36:43
Updated 13 May 2025 08:46:44 by Michał Grabski