

Technical Datasheet Input / Output Module - Modbus RTU Protocol to Modbus TCP Protocol

The IO modules communicate via RS485. The port can drive distances up to max 700 meters without the use of any repeater (this feature however also depends on the signal strength of the Modbus Slave Device).

The 1 Port Modbus RTU RS485 to Modbus TCP Ethernet module is sturdy, low power usage and easy to use.

<u>1 Port Modbus RTU – 1 port Modbus TCP Module: -</u>



This converter module is DIN rail mountable and FR grade.

The design of the modules incorporates 'resettable Fuses' to safeguard against reverse polarity connection both for **Power** and **Communication** port.

Specifications

General -

I/O Connectors 2 Pin 5.08 mm pitch pluggable screw terminals.

Dimensions 70 mm L x 110 mm B x 50 mm H

Power Input Power – 24 AC / DC

Typical Power Consumption – 5W

Operating Temperature $0-60^{\circ}$ C (32 $^{\sim}$ 140°F) Storage Temperature $-20-70^{\circ}$ C (-4 $^{\sim}$ 158°F)

Storage Humidity 5 ~ 95 % RH, non – Condensing

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Certifications

Modbus RTU – This side acts as a 'Modbus Master' for connecting

Slave devices over Modbus RTU RS485.

No of Devices Up to 12 Slave devices in Daisy chain

Modbus TCP - This side acts as a slave for the Host Device like the

Gateway etc.

Web Interface for Easy configuration and connection

Additional Features: -

Communication Port isolated Input power reverse polarity safety ESD Safety IEC 61000-4-2, \pm 30KV contact, \pm 30KV air EFT IEC 61000-4-4, 50A (5/50ms) 750V isolation. CRC Error check.

Configuration Settings: -

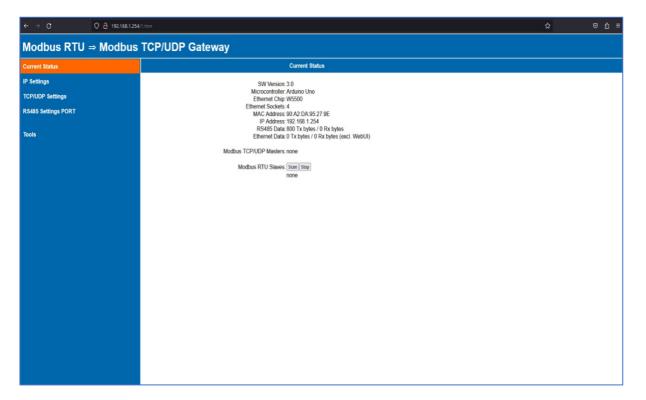
- Connect 24 V AC/DC Supply to the Module.
- Connect MODBUS RTU Multiple Slave devices or Single devices to the A & B Terminal of Module.
- Connect MODBUS TCP Network Ethernet Cable to the Ethernet port of the module.
- Default IP Address of Module is "192.168.1.254".
- After connecting we are ready to simulate the RTU to TCP Conversion.
- Please enter "192.168.1.254" on your browser, make sure your device should in the same network of Module.
- After Entering above IP Address, you will find a webpage which has 5 pages for Configurations.

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Page Number 1

- On First page will get Current Status Information of module.
- MAC, IP, Ethernet Sockets, Ethernet chip, Ethernet Data are available on First page.
- Available Networked TCP/UDP Masters and a Scanner for Available RTU connected slave addresses will be printed on the page.
- One left Selection panel you can get other page information.
- IP Address Settings, TCP/UDP Settings, RS485 Settings and available Tools are placed on Left Selection Panel.



Page Number 2

- Second page is setup for custom user IP address settings.
- User can input custom IP, Gateway, Subnet & DNS.

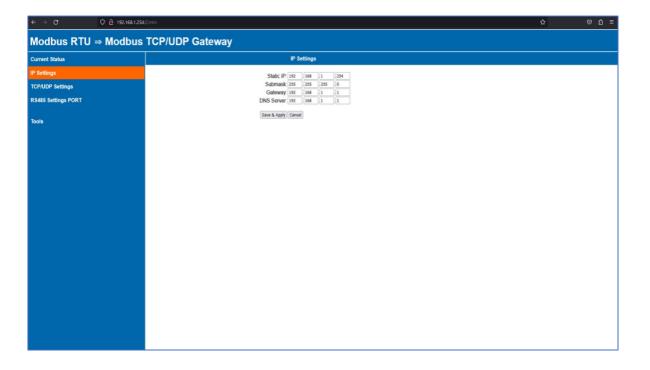


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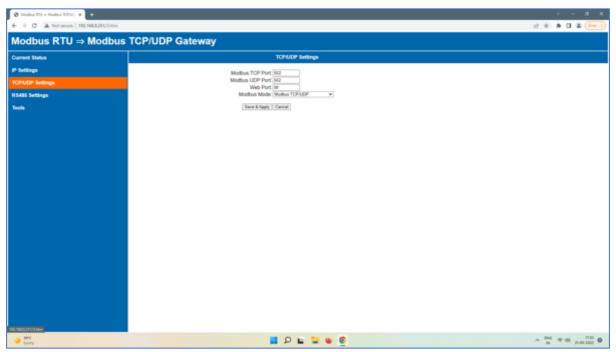
Page Number 3

- Third Page is setup for TCP/UDP Settings Configuration.
- TCP Port, UDP Port & Web Port can be set from this page.
- Modbus Selection can be done from third page.
- Modbus Mode:
- 1) Modbus TCP/UDP
- 2) Modbus RTU over TCP/UDP



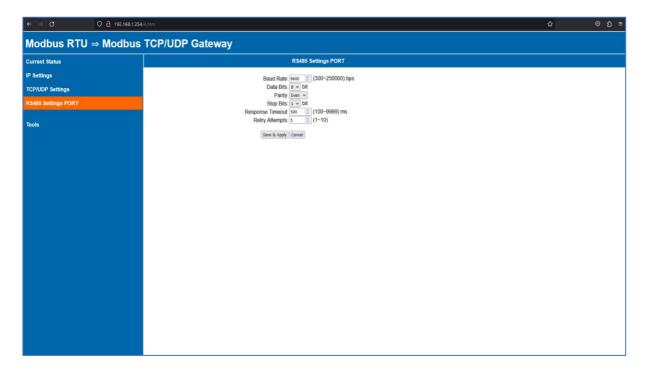


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Page Number 4

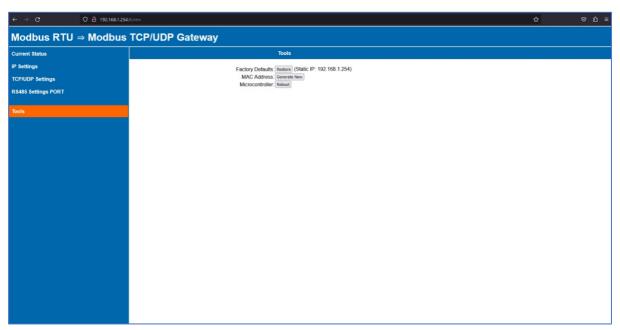
- On fourth page RS485 configuration can applied by user.
- Baud rate selections, Data Bits, Parity, Stops Bits, Response timeout, retry attempts are configured on this page.



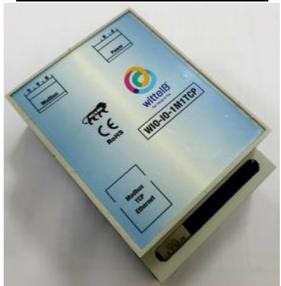


Page Number 5

- Fifth page is Tools Page.
- It gives user to set Factory Default settings, MAC Address Generation, & System Reboot.



Converter with Enclosure



Contact us: -

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