MG8322 Modbus Gateway

User's Manual

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1.Introduction

This MG8322 Modbus gateway provides the ways of connecting serial devices to Ethernet. It is designed to operate serial ports through Ethernet (10/100Mbps) over TCP/IP network. As the data is transmitted via Modbus protocol, therefore data acquisition and controlling is available to go through Intranet and Internet. There are two serial ports as one is a RS-232 and other one is RS-422/485. Configuration is easy to operate via web page setup.

This Modbus gateway is a high performance design composed with carefully selecting qualified components from reliable and certified sources. This operation manual will guide you to configure functions step by step.

This Modbus gateway provides RTU to TCP Slave, ASCII to TCP Slave ,TCP to RTU Slave , TCP to ASCII Slave Mode, and it also supports manual configuration via web browser.
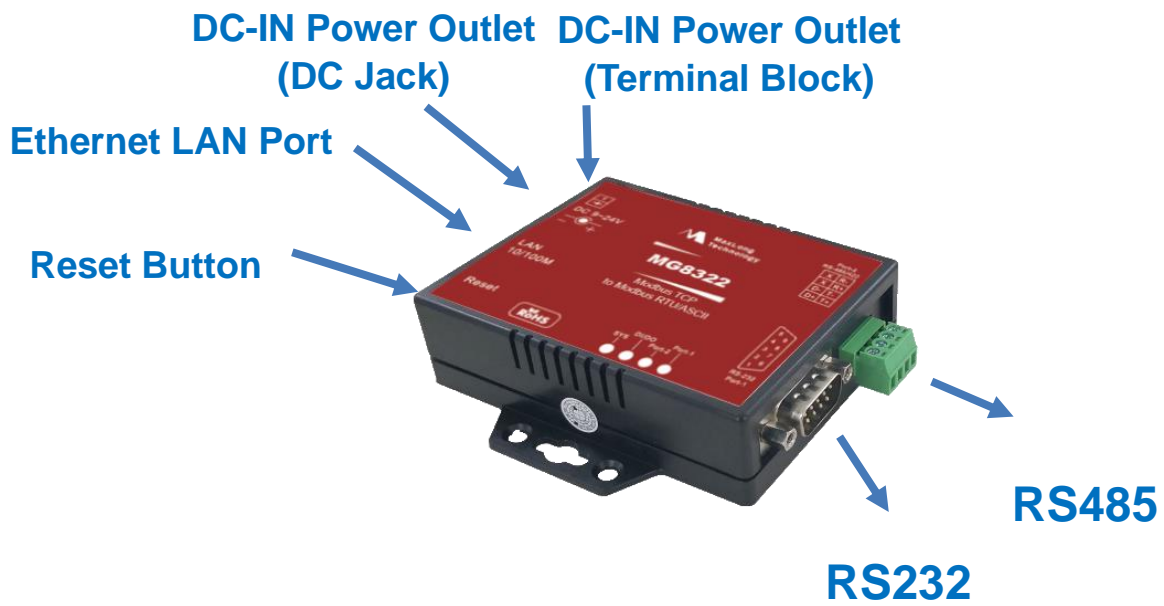
1.1 Product Views

**DC-IN Power Outlet
(DC Jack)**

**DC-IN Power Outlet
(Terminal Block)**

Ethernet LAN Port

Reset Button

RS485

RS232
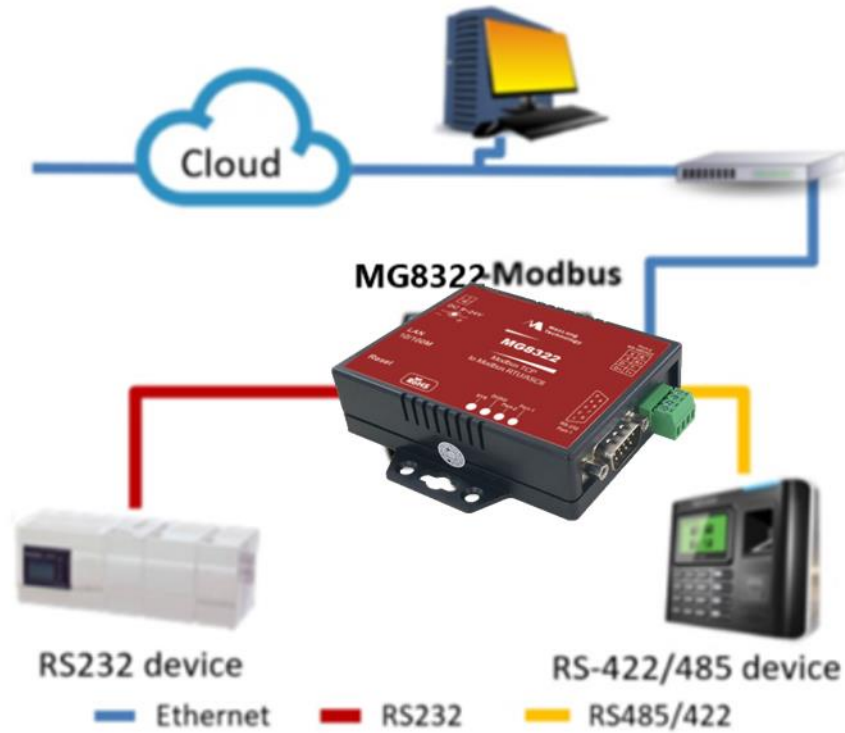
Figure 1 Product View

1.2 Wiring Architecture

Figure 2 Wiring Architecture

2. Configuration

2.1 Configuration Via Web

Step1➔ The first thing is to configure the Host PC's IP address
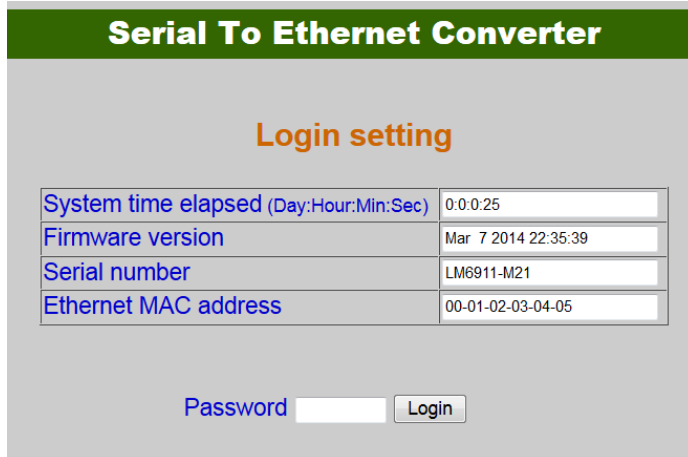
IP :192.168.0.xx

Step2➔ Open a web page of configuration http://192.168.0.100

Step3➔ Default *User name*: "**admin"** and *Password*: "**Leave it Blank"**

Step4➔And now you have successfully connected to this Modbus
gateway

2.2 Configuration Sections
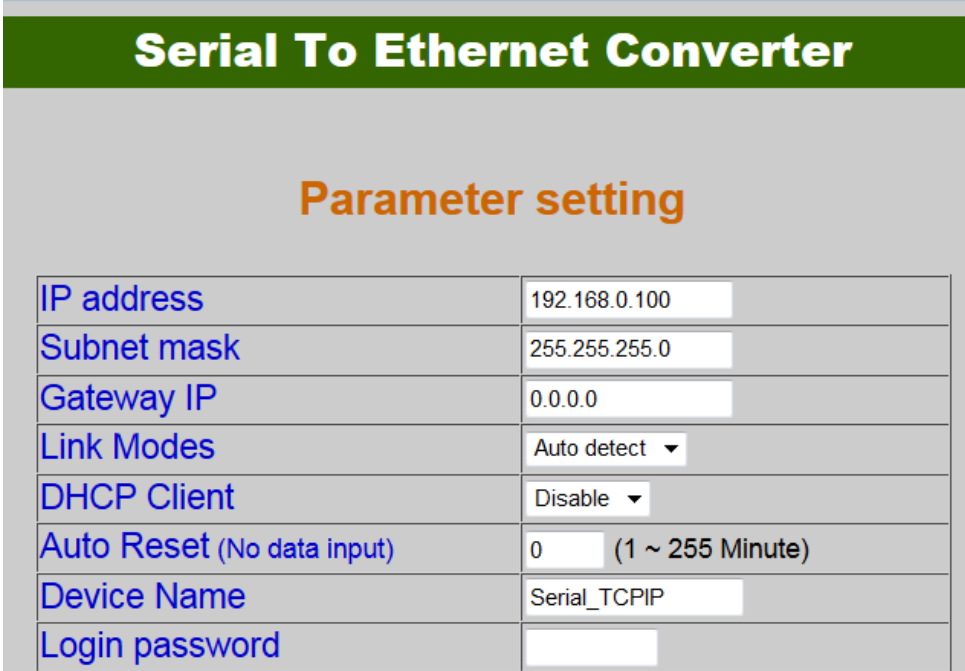
2.2.1 System Setup

System Status: Display current status and time of the system

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2.2.2 Network Setup

1. Network Link Mode : default value is "Auto"
2. IP Address : default value is "192.168.0.100"
3. Subnet Mask : default value is "255.255.255.0"
4. Gateway : default value is "blank"
5. Device Name : default value is "Serial_TCPIP"
6. DHCP Client : Network configuration information automatically

acquired，default value is "Disable"

2.2.3 Serial Port Setup

Serial I/O Port 1	0	
Local port,Socket mode	501	TCP Server ▼
Remote IP,Port (TCP Client/UDP)	0.0.0.0	0
Interface	RS232 ▼	
Baudrate	9600 ▼	
Parity,Data bit,Stop bit	None ▼	8 ▼ 1 ▼
Force off-line time (No data input)	10	(1 ~ 255 Minute)
Packet collect time	Tx 0	Rx 0 (mSec)
Modbus type	TCP To RTU Slave ▼	
Serial I/O Port 2	0	
Local port,Socket mode	502	TCP Server ▼
Remote IP,Port (TCP Client/UDP)	0.0.0.0	0
Interface	Auto Detect ▼	
Baudrate	9600 ▼	
Parity,Data bit,Stop bit	None ▼	8 ▼ 1 ▼
Force off-line time (No data input)	10	(1 ~ 255 Minute)
Packet collect time	Tx 0	Rx 100 (mSec)
Modbus type	TCP To RTU Slave ▼	

1. Gateway Type: RTU Slave to TCP Master, and etc. 4 modes are seletable

2. Message Timeouts : default value is 500ms

3. Gateway Type: default value is RTU Slave to TCP Master and ASCII Slave to TCP Master, Configuration interface is as shown above:

   Serial Device for RTU or ASCII：RTU or ASCII Asynchronous serial device

   settings
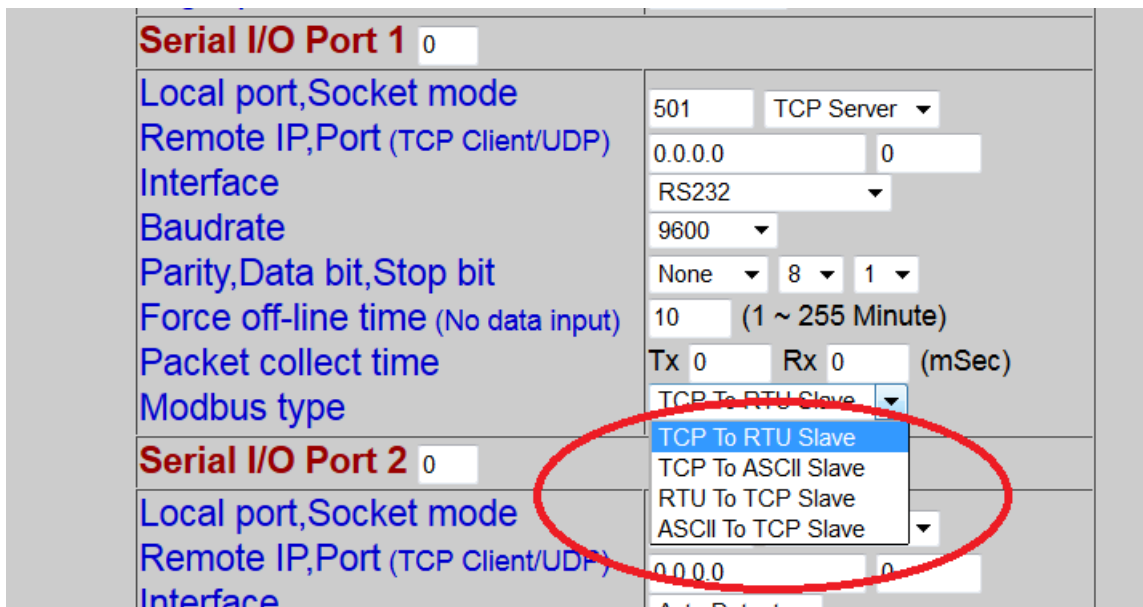
   a. Device : Asynchronous serial device type currently supports RS232, RS485, RS422

   b. Baud Rate: 960，19200 bps, and etc.

c. Parity : None, Odd, Even

d. Data Bits: 8, 7, 6, and etc.

e. Stop Bits : The end of the signal bits of bytes

4. Gateway Type is TCP Slave to RTU Master and TCP Slave to ASCII Master,

2.2.4 Modbus Setup

Configuration interface is as shown below:

Serial Device for RTU or ASCII：RTU or ASCII Asynchronous serial device settings

a. Device : Asynchronous serial device type currently supports RS232, RS485, RS422

b. Baud Rate: 960，19200 bps, and etc.

c. Parity : None, Odd, Even

d. Data Bits: 8, 7, 6

e. Stop Bits: The end of the signal bits of bytes

TCP Slave: Port can be specified, if not specified will use the default value

502.

2.2.5 Reset Button

If any chance you forgot the login password or have incorrect settings making this Device inoperable, upon the power is on and the "SYS" LED light on, use a point tip to press this button and hold it for more than 20 seconds the release the point tip. The Device will reboot and all the parameters will be reset to the factory default.