



MGW101-1D(RS232)/1TX

1 x RS232 To Ethernet(10/100M) Modbus Gateway



Introduction

MGW101-1D(RS-232) is an industrial Ethernet Modbus gateway that converts between Modbus TCP and Modbus RTU/ASCII protocols. It provides 1 port RS-232 serial (RJ45) and 1 port 10/100M Ethernet. Modbus TCP, Modbus RTU and Modbus ASCII protocol are integrated in the products, users can easily realize the seamless integration of Modbus Ethernet devices and Modbus serial devices and even multi master and slave hybrid networks. At the same time, the user can be set up by Web or Telnet. The simple design can not only realize the fast application, but also guarantee the application of the entire real industrial environment. The products using EMC protection design, can work in rugged environment.

- 1.Support Modbus TCP, Modbus RTU, Modbus ASCII, IP, ARP, DHCP and DNS protocol
- 2.Support 1 port 10/100M Ethernet
- 3.Support 1 Port RS-232
- 4.Support WEB and Telnet configuration
- 5.Convert between Modbus TCP and Modbus RTU/ASCII
- 6.Support RTU Slave, RTU Master, ASCII Slave, ASCII Master four operating modes
- 7.Support ID mapping function, to achieve the management of the host ID
- 8.300bps~115200bps baud rate and nonblocking communication
- 9.Support IP address and MAC address filtering function
- 10.Slave mode support 16 TCP master connections
- 11.Master mode support 32 slave TCP connection requests
- 12.Support Response Timeout and Interval Timeout setting
- 13.Support cross-gateway and cross-router communication
- 14.IP30 protection grade, metal shell, wall mounted installation
- 15.No fan, low consumption design
- 16.Working temperature: -40~75℃



Specification

Ethernet port

Standard: 10Base-T, 100Base-TX

Protocol: Support Modbus TCP, Modbus RTU, Modbus ASCII, IP, APR, ICMP, DNS and DHCP

Signal: Rx+, Rx-, Tx+, Tx-

Speed: 10/100Mbps

Working: Full-duplex and half duplex

Transfer distance: 100m

Connector: RJ45

Serial port

Serial port number: 1 port RS-232

RS-232 signal: TXD, RXD, RTS, CTS, GND

Parity bit: None, Even, Odd, Space, Mark

Data bit: 7bit, 8bit

Stop bit: 1bit, 2bit

Baud rate: 300bps~115200bps

RS-232 transfer distance: no more than 15m

RS-232 connector: RJ45

Master mode: 32 TCP slaves

Slave mode: 16 TCP masters

Work mode: RTU Slave, RTU Master, ASCII Slave, and ASCII Master

LED Indicator

Power (PWR)

Ethernet port connect status (Link)

Serial port data indicator: TX, RX

Power requirements

Input voltage: 9~48VDC

No-load consumption: 0.54W@9VDC

Full-load consumption: 0.78W@9VDC

Environment limits

Working temperature: -40~75℃

Storage temperature: -40~85℃

Relative humidity: 5%~95% (non-condensing)

Mechanical

Shell: IP30 protection, metal shell

Installation: Wall mounting

Weight: 230g

Size (L×W×H): 100mm×69mm×22mm

Standard

EMI: EN 55022 Class A, FCC Part 15 Subpart B Class A

EMS: EN 61000-4-2 (ESD), Level 3

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32



Vibration: IEC 60068-2-6

Warranty

Warranty time: 3 years

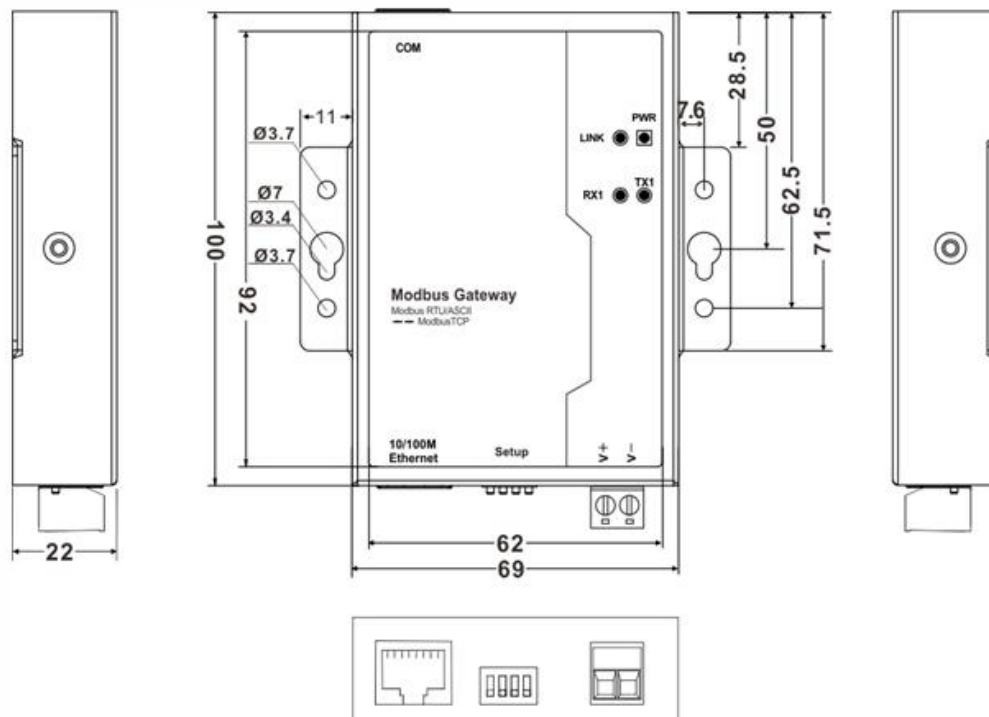
Certificates

CE, FCC, RoHS, UL508 (pending)

Optional accessories:

DIN-Rail Mounting Kit (35mm) ×1

Dimension



Order Information

MGW101-

Ports

PS

Ports

1D(RS232)/1TX = 1 x RS232 Port, 1 x 10/100BASE-TX RJ45 Port

PS: Power Supply

L1 = 9~48VDC, single power input



Example Order Codes

MGW101-1D(RS232)/1TX-L1

1 x RS232 Port, 1 x 10/100BASE-TX RJ45 Port, 9~48VDC, single power input