

CWT-MB317T

Modbus I O Module

manual

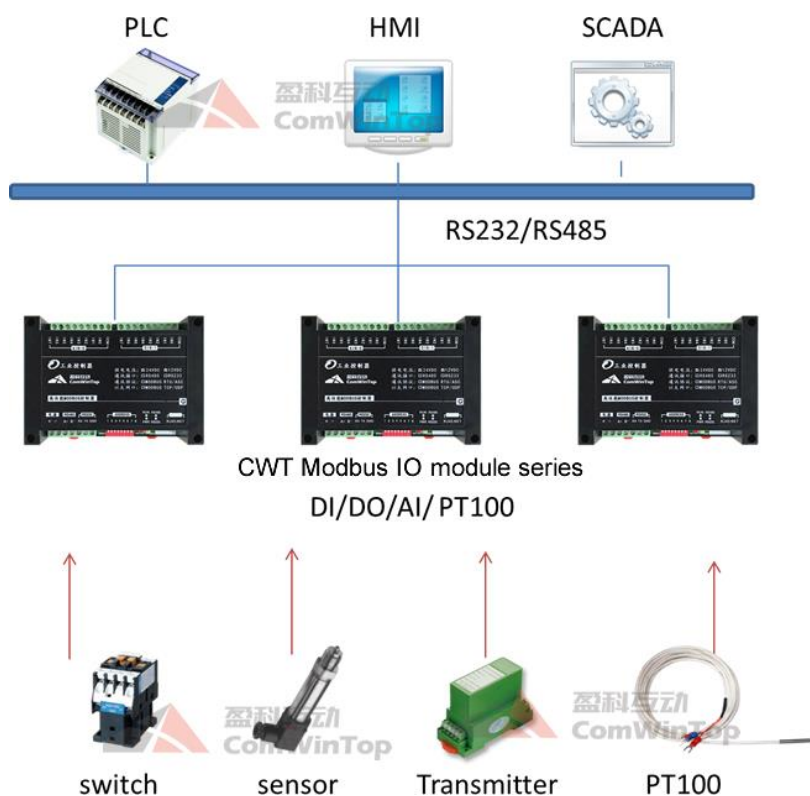
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1 OVERVIEW

| Model | Options | IO Port | Communication Port | Protocol |
|------------|-----------|------------|----------------------|------------------------|
| CWT-MB317T | 485 | 32DO (NPN) | RS485 | Modbus RTU |
| | 485-232 | 32DO (NPN) | RS485+RS232 | Modbus RTU |
| | E | 32DO (NPN) | Ethernet | Modbus TCP |
| | E-485 | 32DO (NPN) | Ethernet+RS485 | Modbus TCP, Modbus RTU |
| | E-485-232 | 32DO (NPN) | Ethernet+RS485+RS232 | Modbus TCP, Modbus RTU |

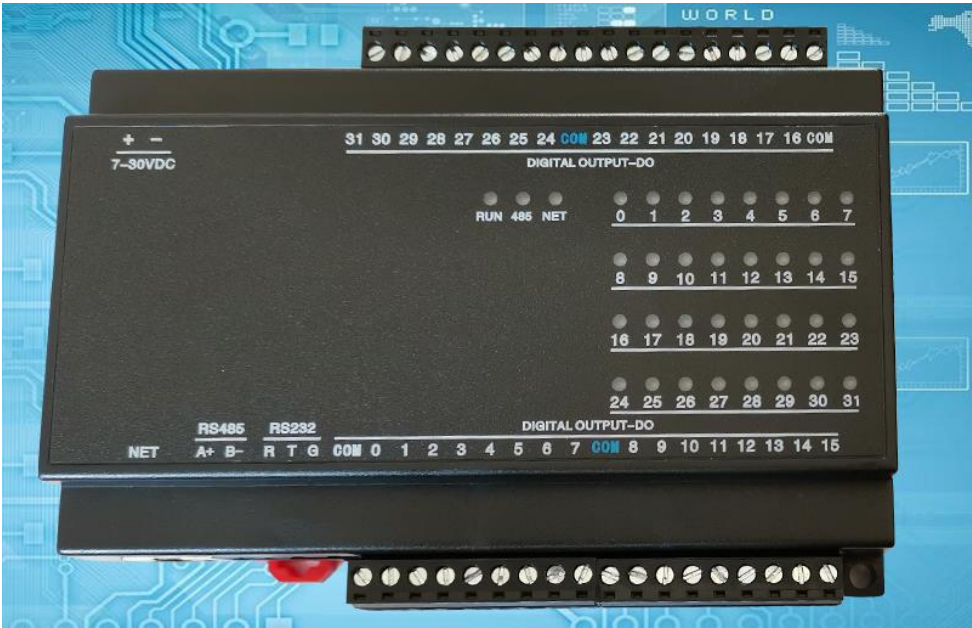
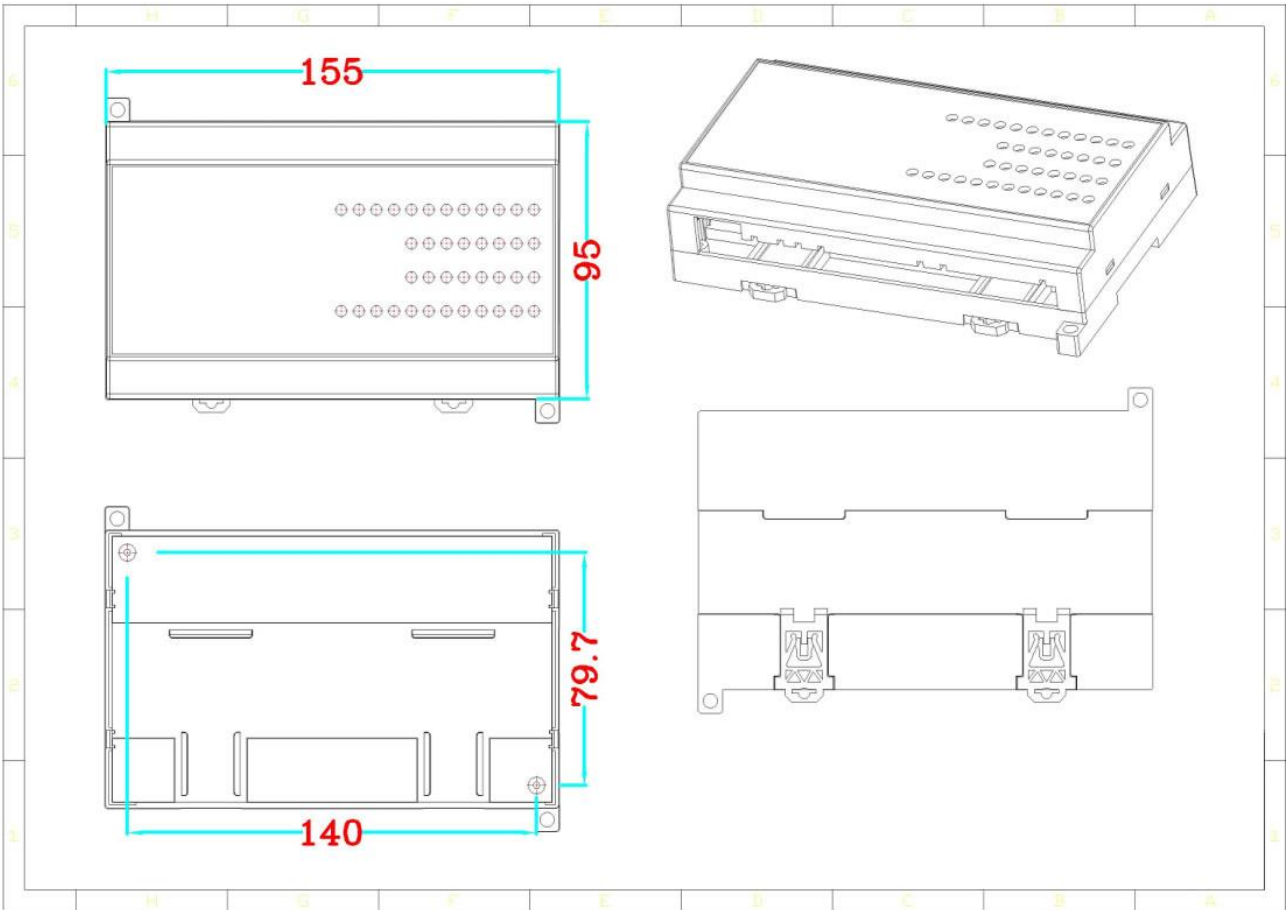


1.1 System Parameter

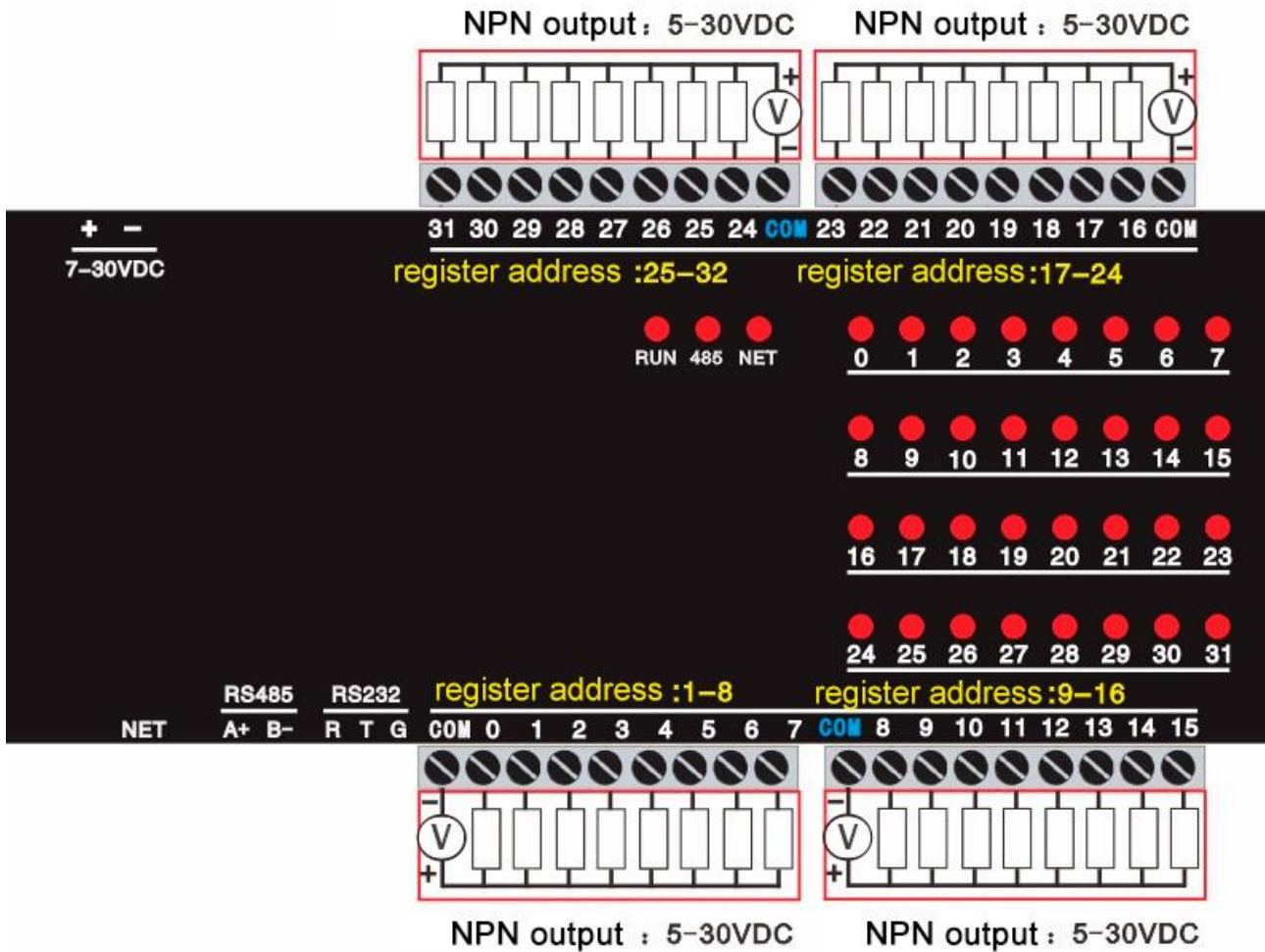
| | |
|---------------------|--|
| CPU | 32-bit ATMEL ARM, 72MHZ |
| OS | GCOS, 10ms scheduling mechanism |
| Power | 7-35VDC @2W, power supply reverse protection, isolation design |
| Installation | DIN rail mounting or screw fixing  |
| Working Environment | -40℃~85℃, 5%~95%RH(non-condensing) |
| Protection | IP20 |
| Watchdog | 1.5m guard |

2 INSTALL

2.1 size



2.2 wiring



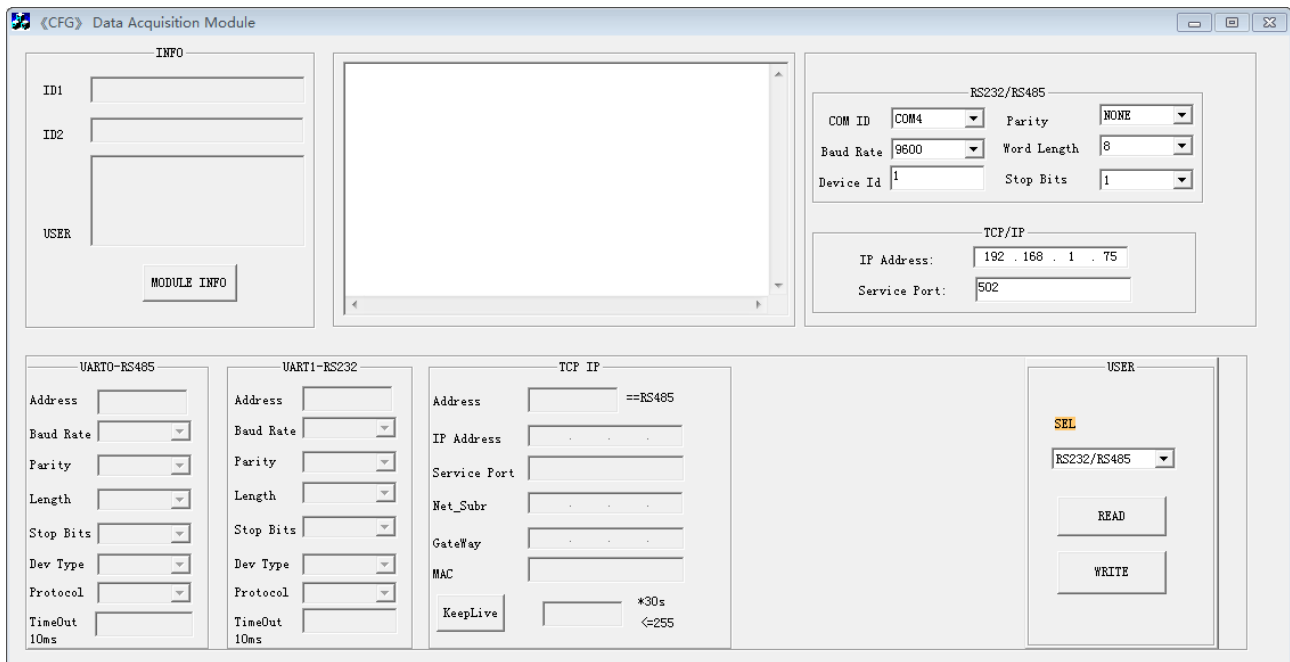
3 CONFIGURATION

3.1 RS232/RS485

| | |
|------------|---|
| Port type | 1RS485 & 1RS232 |
| Protection | DCDC isolation design, 2500V lightning protection, ESD, overvoltage, overcurrent protection |
| Baud rate | 1200~115200, default 9600 |
| Parity | Even, Odd, None |
| start bit | 1 bit |
| data bits | 8 bit |
| Stopbits | 1,2bits |
| Protocol | MODBUS RTU |
| default | 9600.N.8.1, slave id is 1 |



3.2 Configuration software



The screenshot shows the 'Data Acquisition Module' configuration window. It includes sections for 'INFO' (ID1, ID2, USER, MODULE INFO), 'RS232/RS485' (COM ID, Parity, Baud Rate, Word Length, Device Id, Stop Bits), 'TCP/IP' (IP Address, Service Port), 'UART0-RS485', 'UART1-RS232', and 'TCP IP' (Address, IP Address, Service Port, Net_Subr, GateWay, MAC, KeepLive). A 'USER' section on the right has a 'SEL' button, a dropdown menu set to 'RS232/RS485', and 'READ' and 'WRITE' buttons.

Set salve ID, default is 1

3.3 Ethernet

| | |
|----------------------|-----------------------|
| Port type | RJ45 |
| Communicate protocol | MODBUS TCP、MODBUS UDP |
| Communicate rate | 1000 times/s |
| bandwidth | 10M/100Mbps |
| IP address | 192.168.1.75 |
| Port | 502 |

4 DESCRIPTION OF IO CHANNEL

4.1 Digital output

| | |
|--------------|-----------------------|
| Output type | NPN output |
| Isolation | opt coupler isolation |
| Load voltage | 5-30V |
| Load current | 100mA |

Modbus Register map

| channel | Register address |
|----------|------------------|
| Do0-Do31 | 00001-00032 |

NPN wiring diagram

