

# **CWT-MB317H**

## **Modbus I O Module**

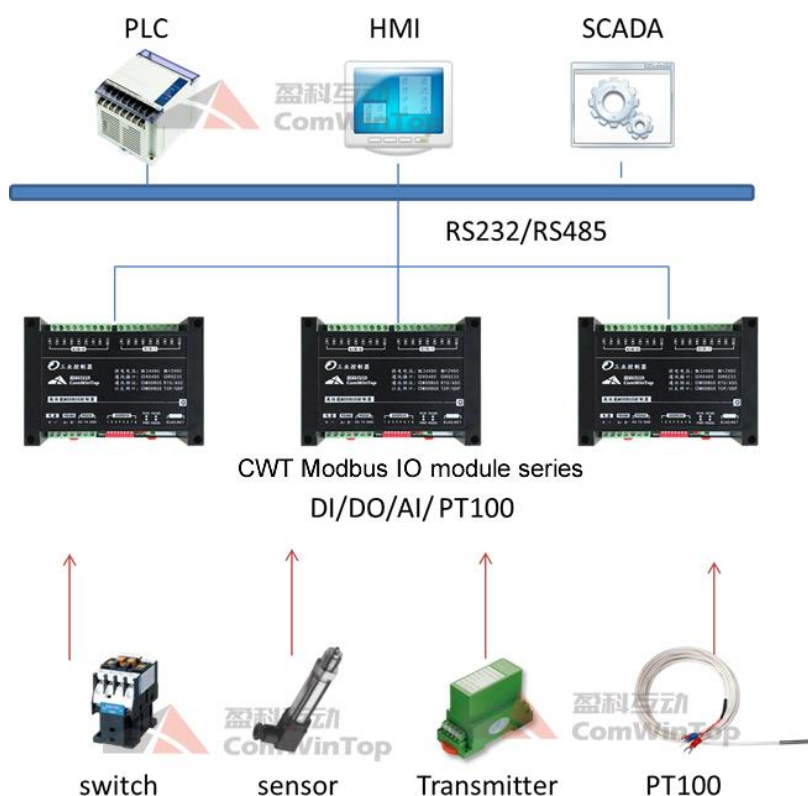
### **manual**

# CONTENTS


- 1 OVERVIEW ..... 3
  - 1.1 SYSTEM PARAMETER ..... 3
- 2 INSTALL ..... 4
  - 2.1 SIZE ..... 4
  - 2.2 WIRING ..... 5
- 3 CONFIGURATION ..... 6
  - 3.1 RS232/RS485 ..... 6
  - 3.2 CONFIGURATION SOFTWARE ..... 7
  - 3.3 ETHERNET ..... 7
- 4 DESCRIPTION OF IO CHANNEL ..... 8
  - 4.1 DIGITAL INPUT ..... 错误!未定义书签。
  - 4.2 DIGITAL OUTPUT ..... 8

## 1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB317H	485	16DO (NPN)	RS485	Modbus RTU
	485-232	16DO (NPN)	RS485+RS232	Modbus RTU
	E	16DO (NPN)	Ethernet	Modbus TCP
	E-485-232	16DO (NPN)	Ethernet+RS485+RS232	Modbus TCP, Modbus RTU

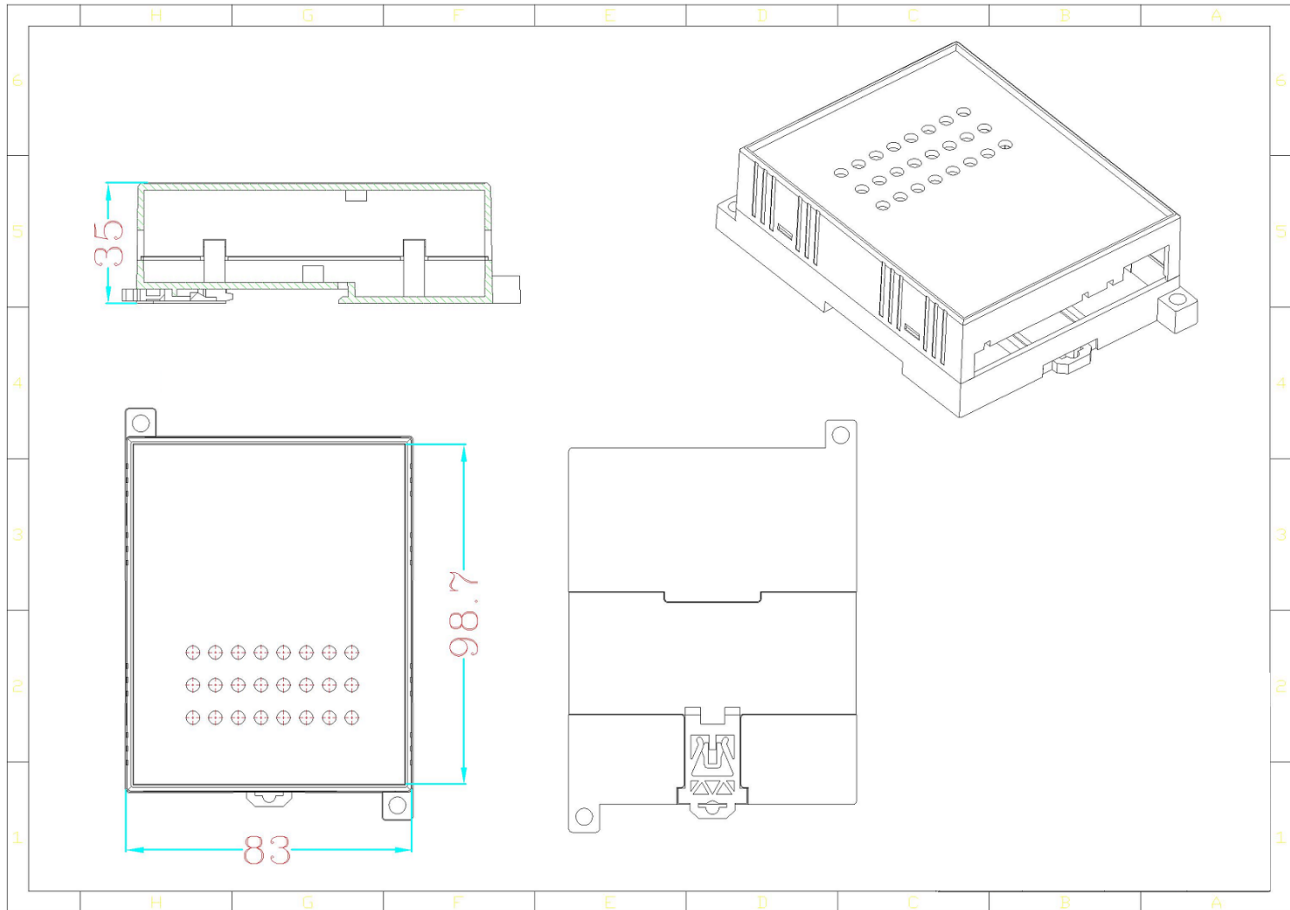


### 1.1 System Parameter

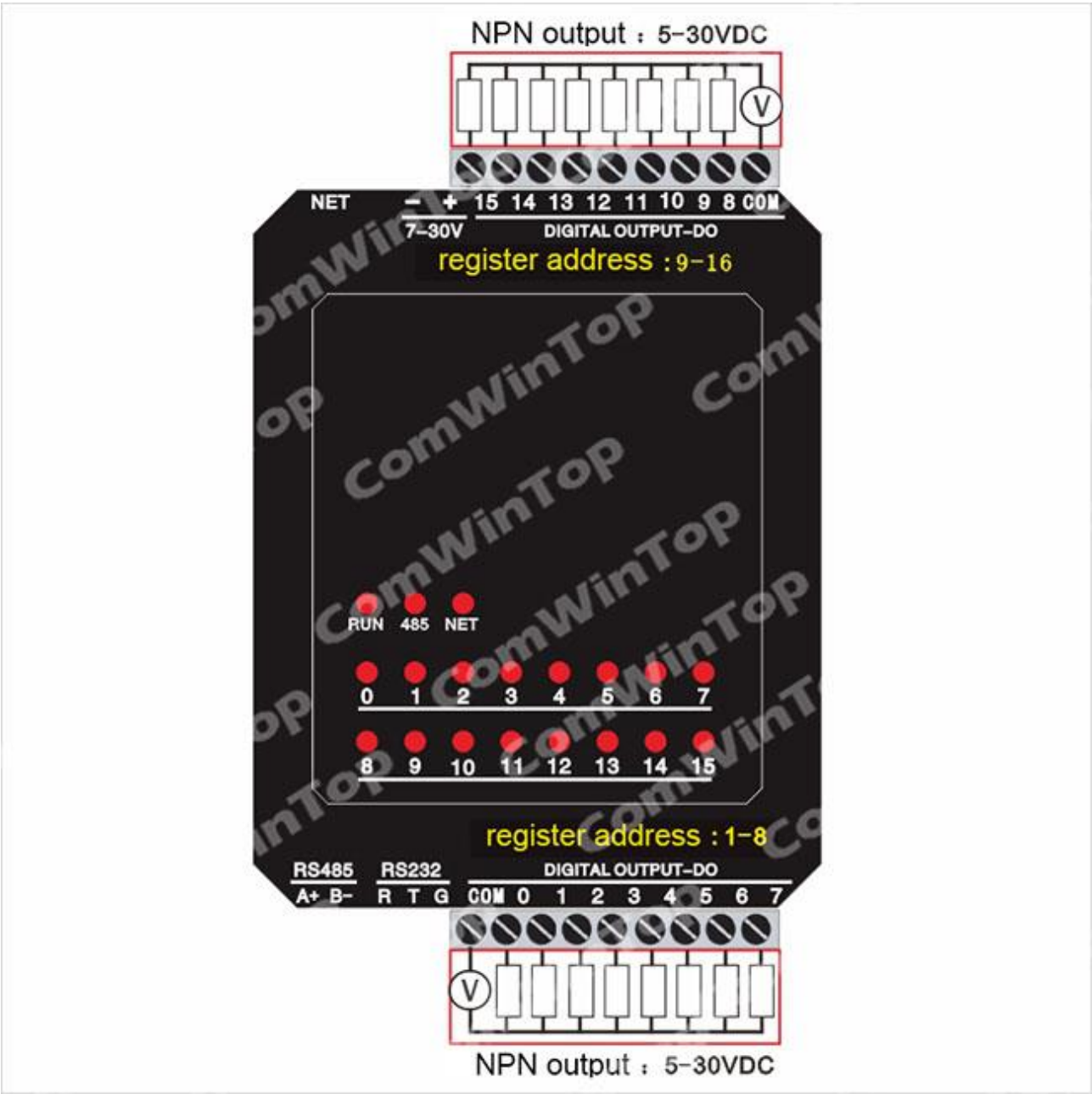
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃～85℃, 5%～95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

## 2 INSTALL

### 2.1 size



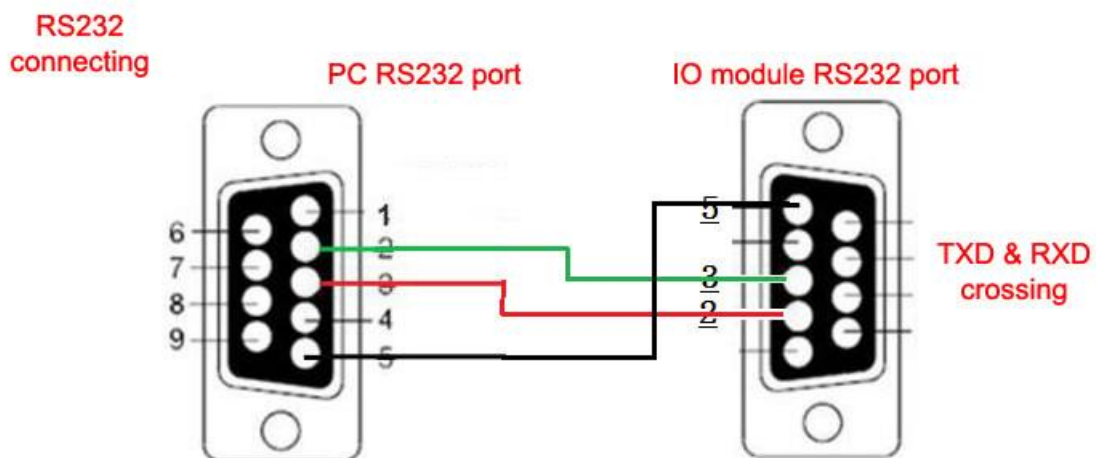
2.2 wiring



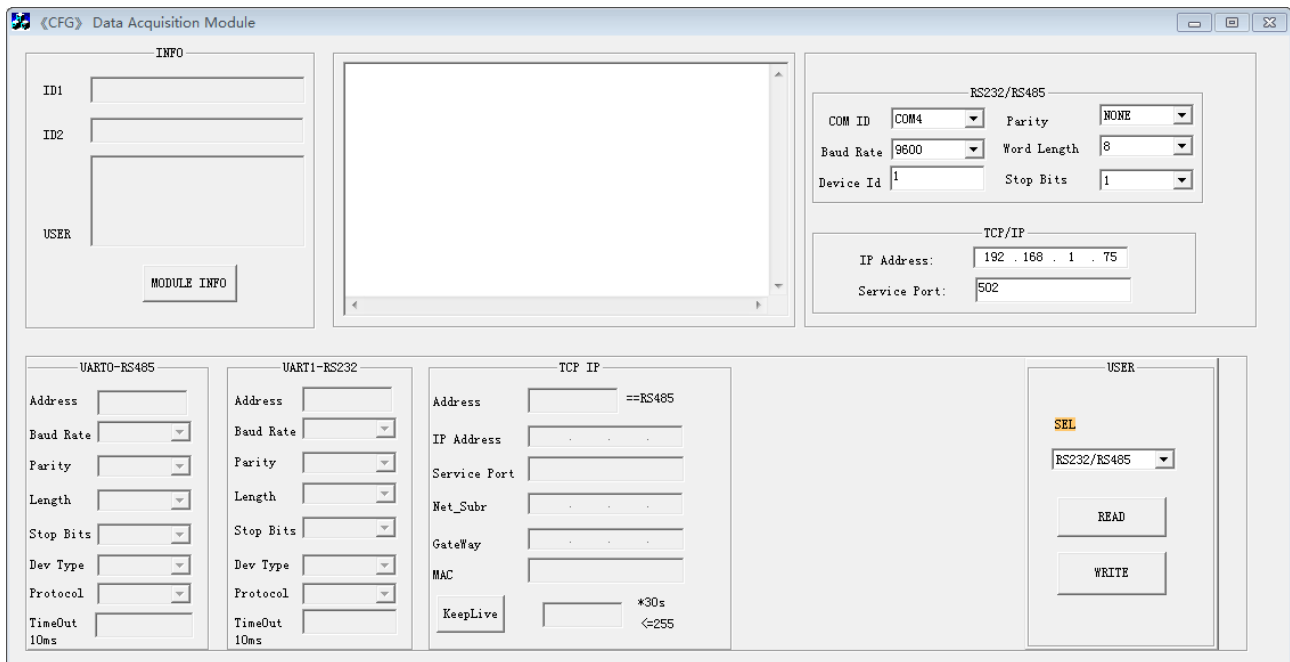
### 3 CONFIGURATION

#### 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, \*30s, <=255). 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 transistor output
Isolation	opt coupler isolation
Load voltage	5-30VDC
Load current	100mA

Modbus Register map

channel	Register address
Do0-Do15	00001-00016

DO wiring diagram

