

CWT-MB318D

Modbus I O Module

manual

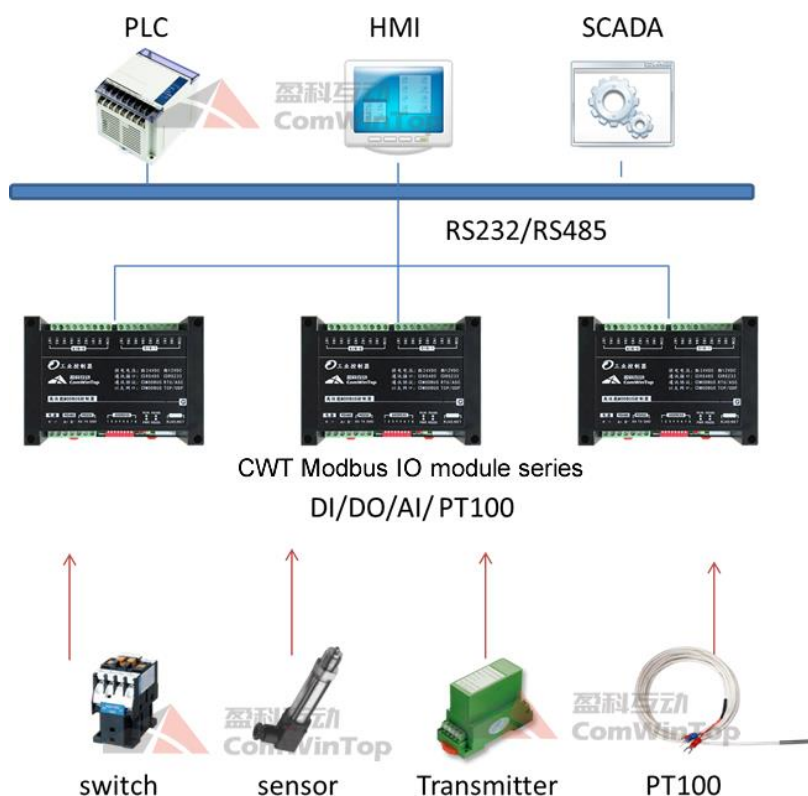
CONTENTS

- 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
- 4 DESCRIPTION OF IO CHANNEL 8
 - 4.1 PT100 INPUT 8




1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB318D	485	12PT	RS485	Modbus RTU
	485-232	12PT	RS485+RS232	Modbus RTU

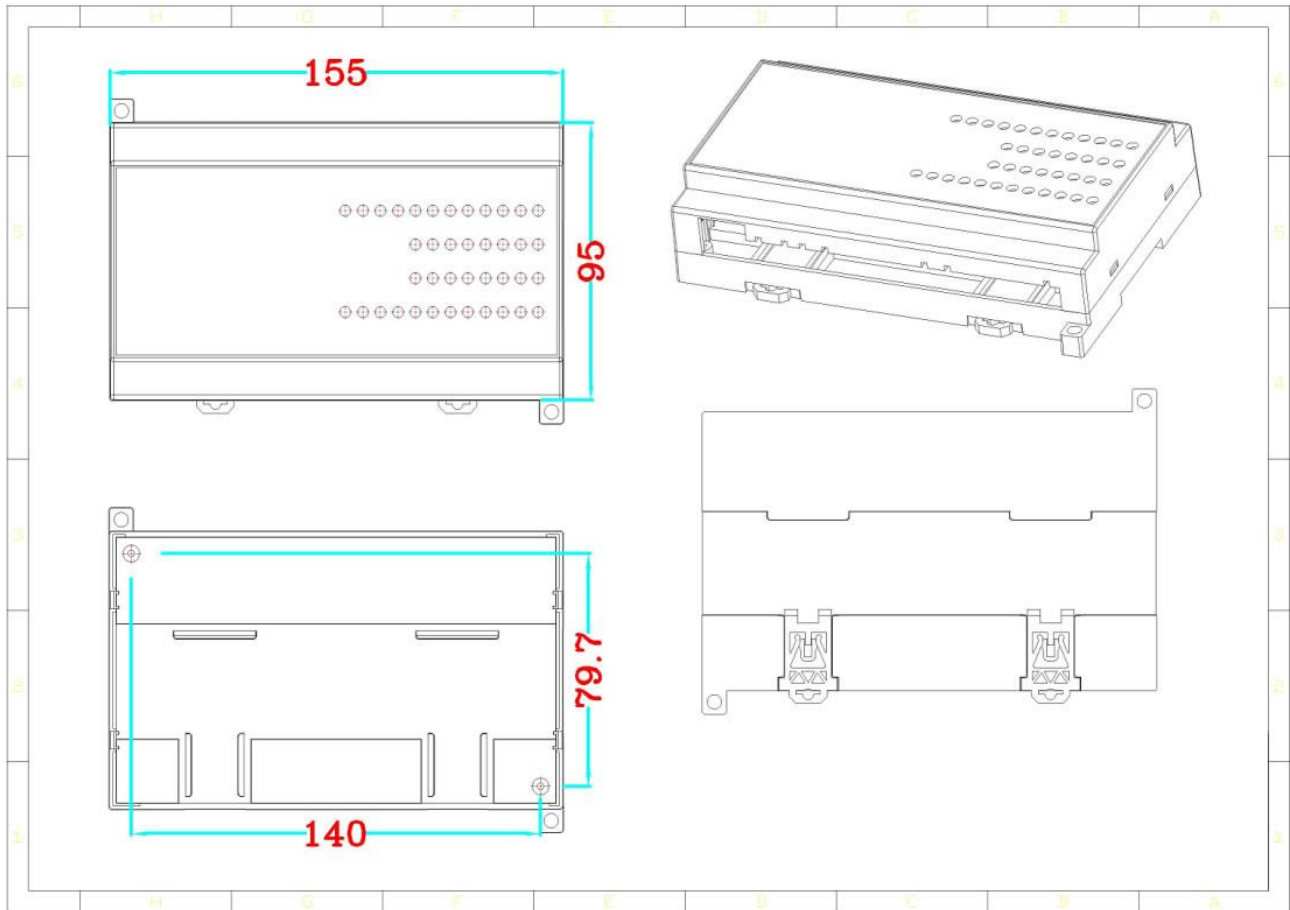


1.1 System Parameter

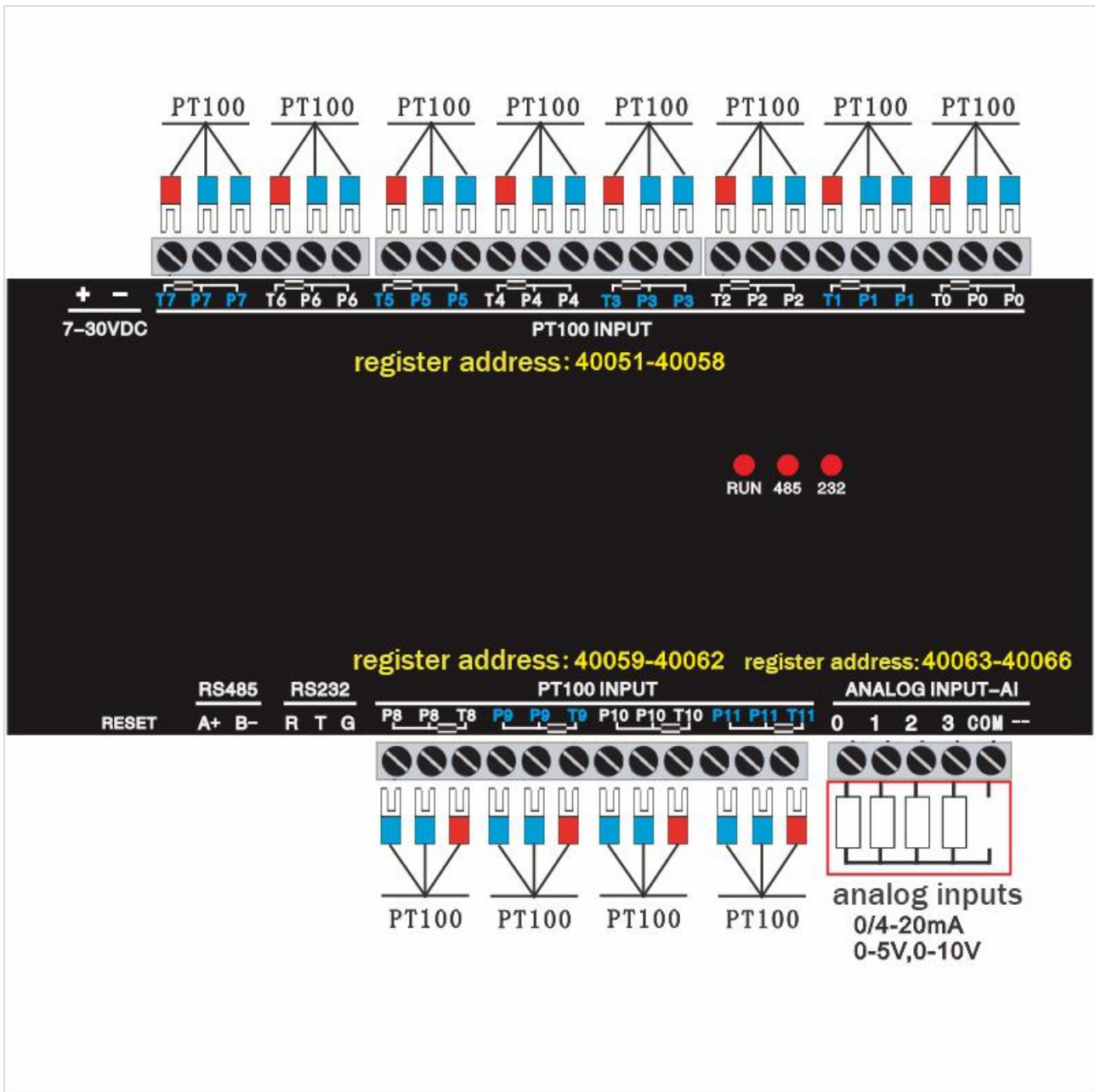
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃~85℃, 5%~95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

2 INSTALL

2.1 size



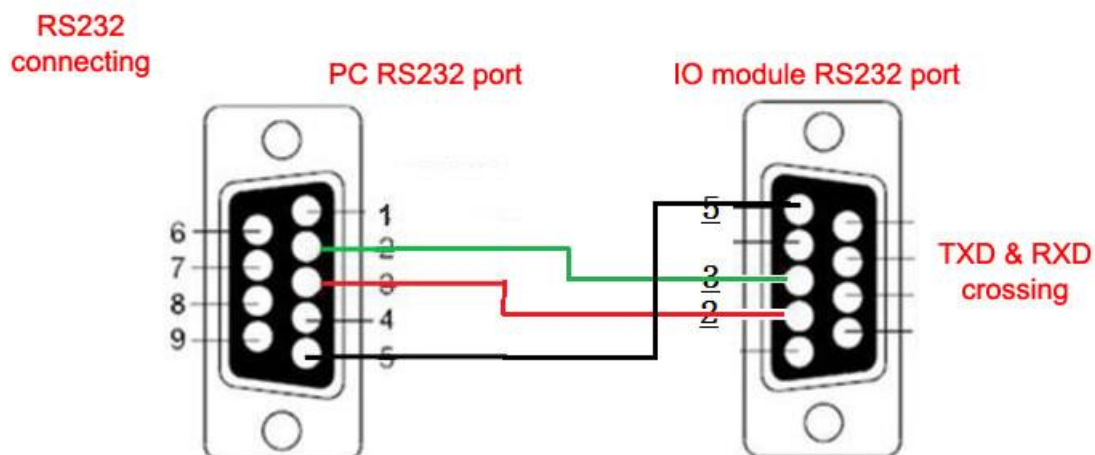
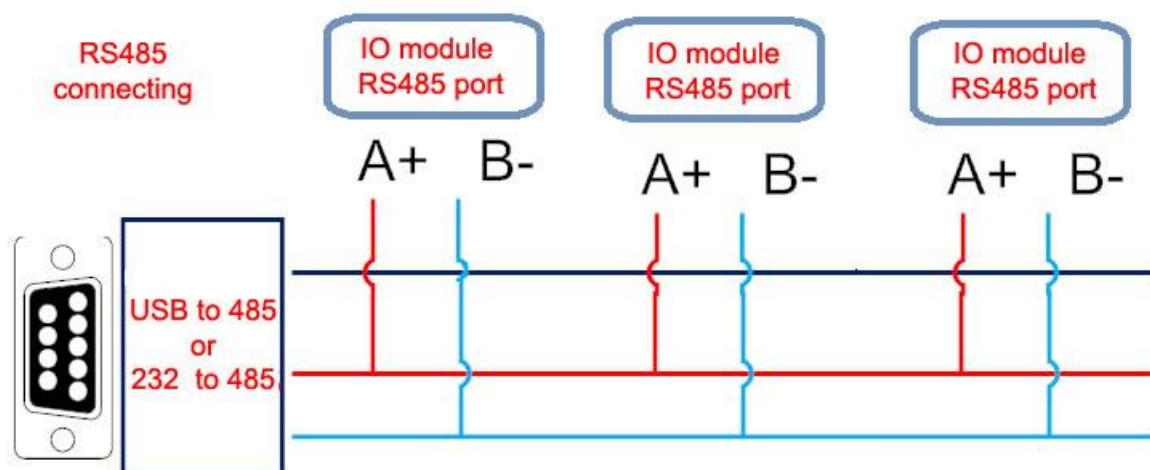
2.2 wiring



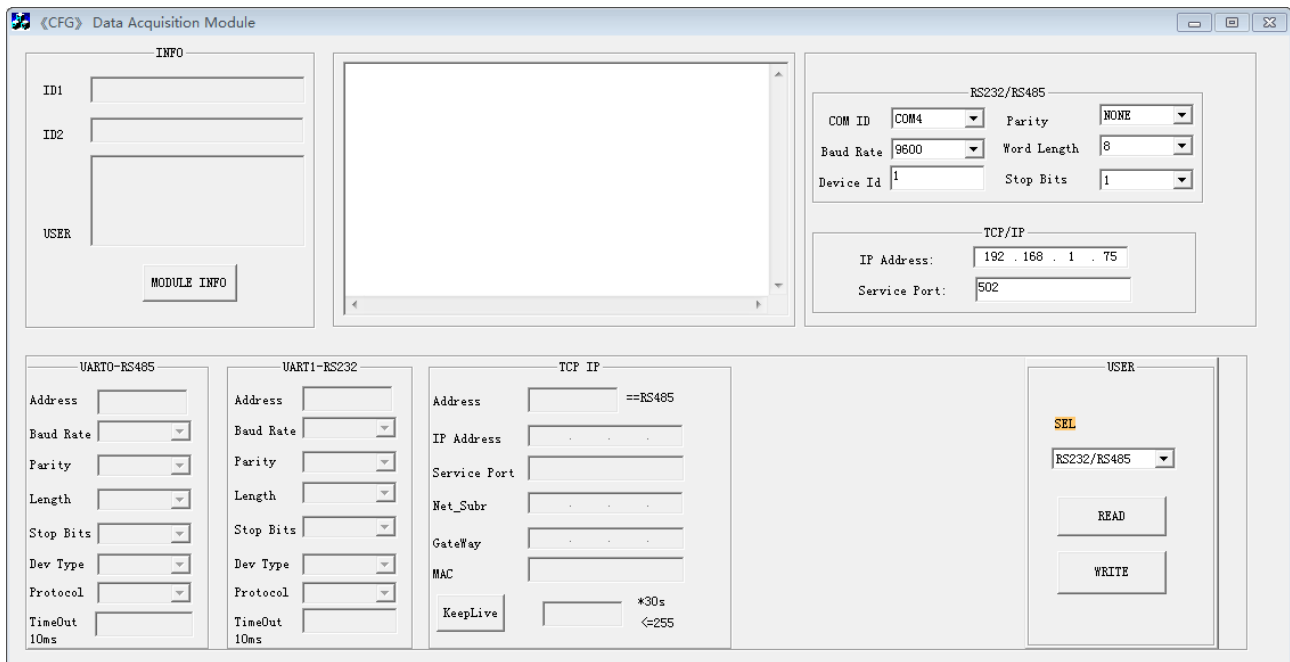
3 CONFIGURATION

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' dropdown set to 'RS232/RS485' and 'READ'/'WRITE' buttons.

Set slave ID, default is 1

4 DESCRIPTION OF IO CHANNEL

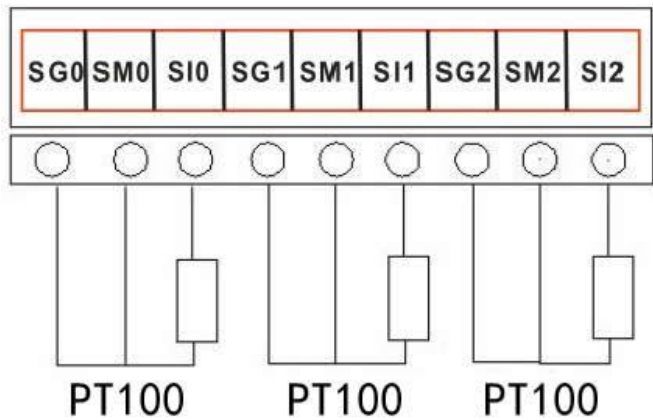
4.1 PT100 Input

Input type	PT100
Precision	0.1°C
Measurement range	-200°C~220°C

Modbus Register map

channel	Register address	Function code	Format	Scaling
PT0-PT11	40051-40062	03	signed UINT16	0.1

Three wire



Two wire

