

CWT-MB308Z

Modbus I O Module

manual

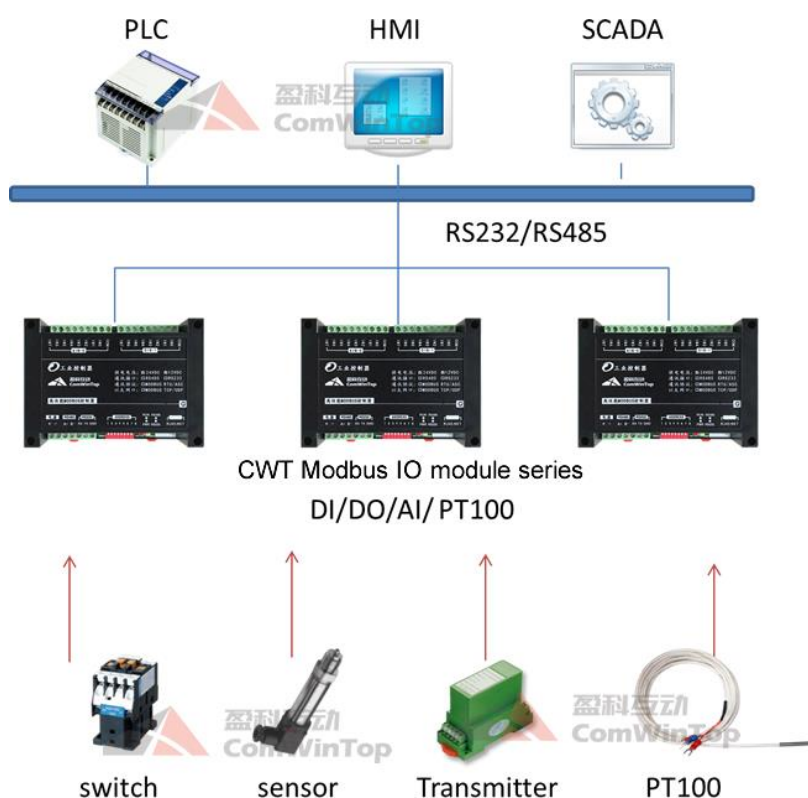
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1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB308Z	I-485	24AI (4-20mA)	RS485	Modbus RTU
	I-485-232	24AI (4-20mA)	RS485+RS232	Modbus RTU
	I-V-485	24AI (4-20mA/0-10V)	RS485	Modbus RTU
	I-V-485-232	24AI (4-20mA/0-10V)	RS485+RS232	Modbus RTU

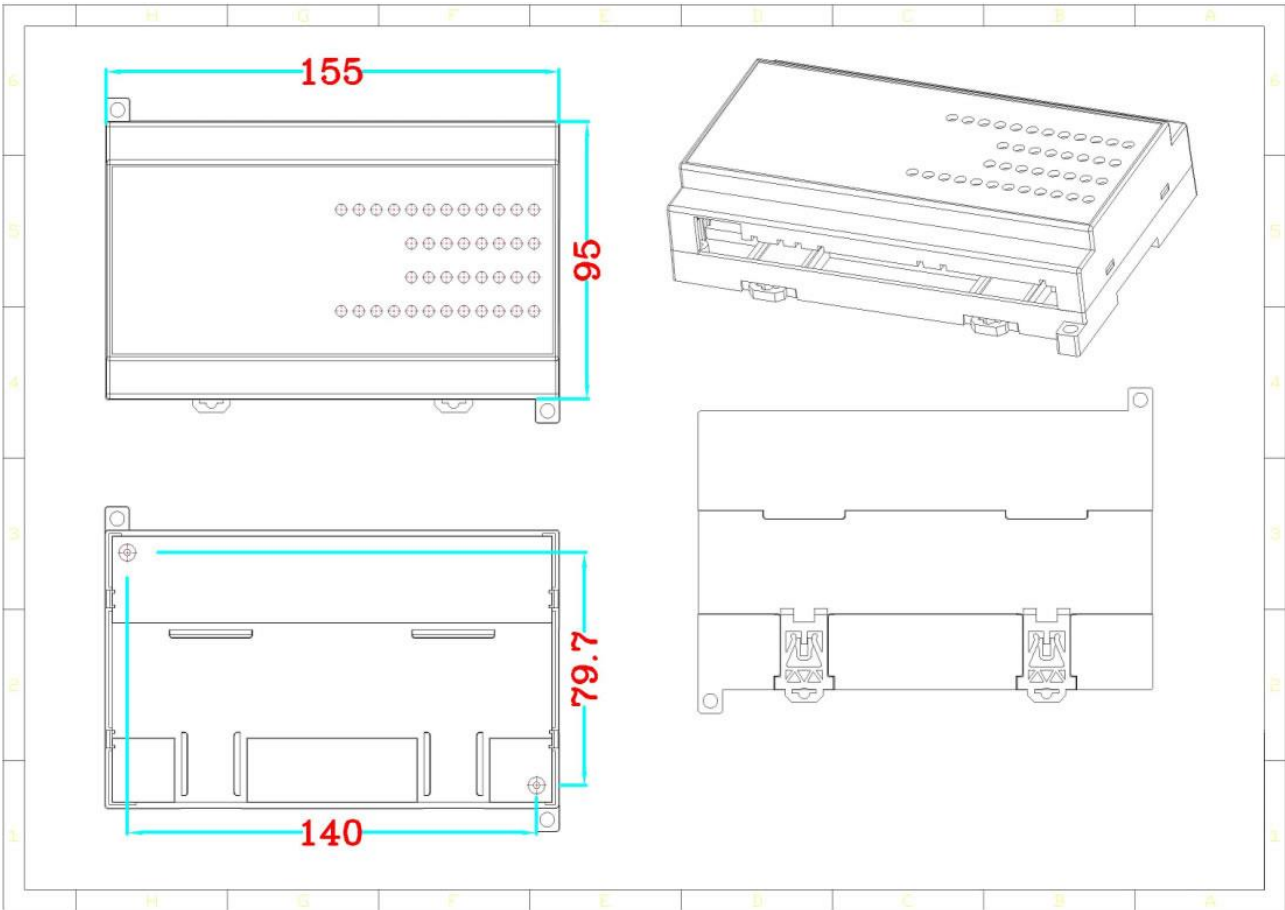


1.1 System Parameter

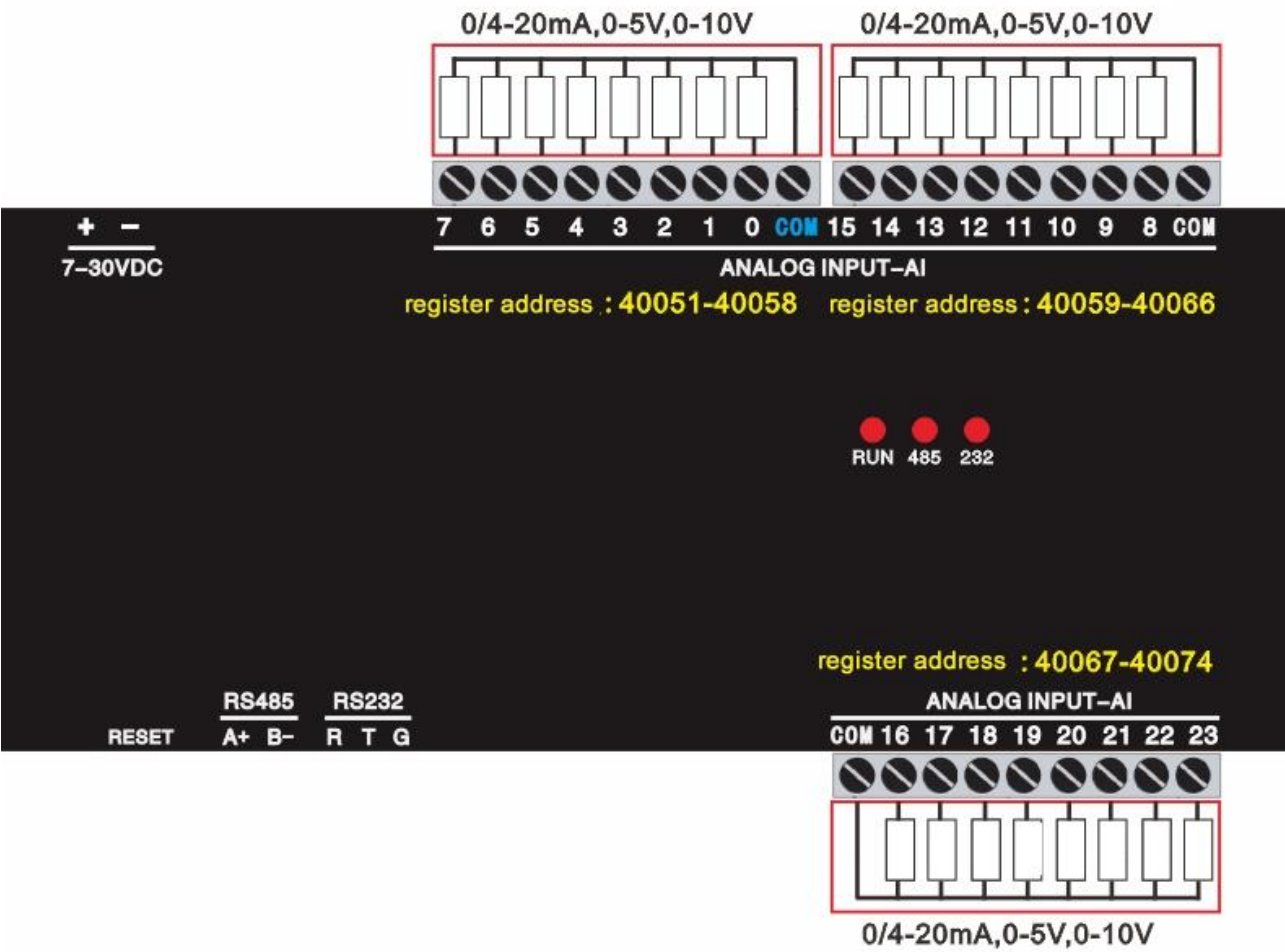
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃～85℃, 5%～95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

2 INSTALL

2.1 size



2.2 wiring



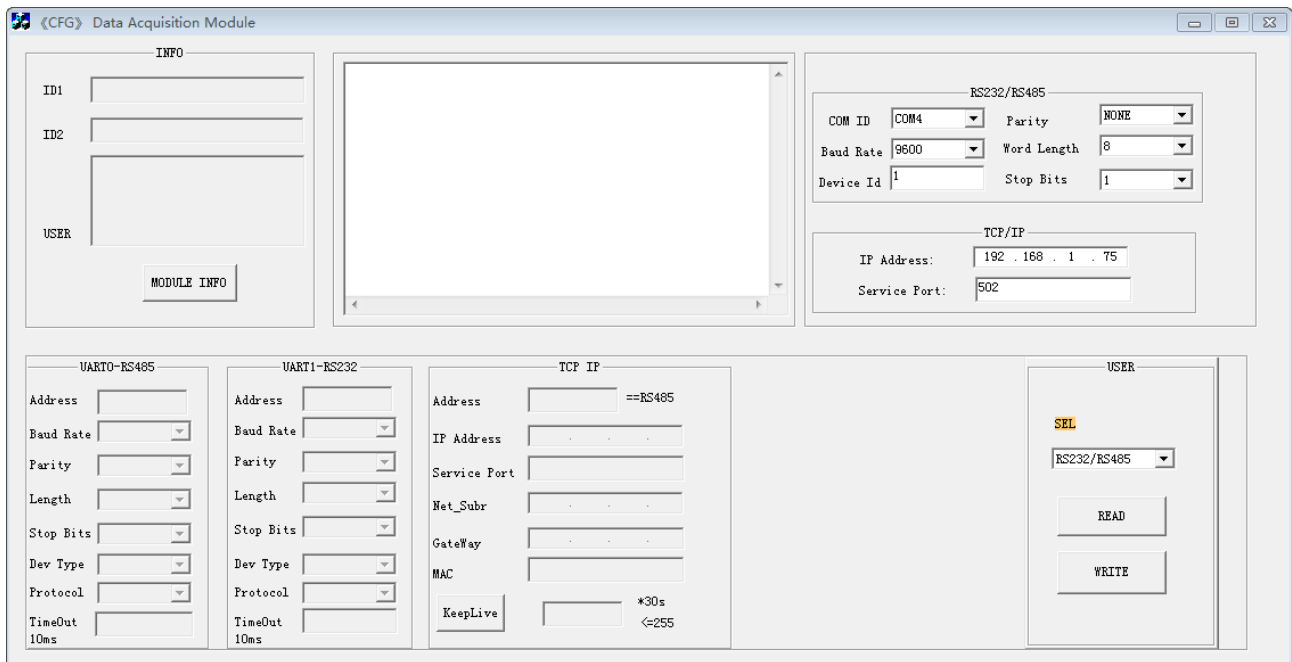
3 CONFIGURATION

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. The 'INFO' section includes input fields for ID1, ID2, and a text area for USER, with a 'MODULE INFO' button below. The 'RS232/RS485' section has dropdowns for COM ID (COM4), Parity (NONE), Baud Rate (9600), Word Length (8), Device Id (1), and Stop Bits (1). The 'TCP/IP' section shows IP Address (192.168.1.75) and Service Port (502). The bottom section contains two UART configuration panels (UART0-RS485 and UART1-RS232) with fields for Address, Baud Rate, Parity, Length, Stop Bits, Dev Type, Protocol, and TimeOut. A 'TCP IP' panel includes Address, IP Address, Service Port, Net_Subr, GateWay, MAC, and KeepLive settings. On the right, a 'USER' panel features a 'SEL' dropdown (set to RS232/RS485) and 'READ' and 'WRITE' buttons.

Set slave ID, default is 1

4 DESCRIPTION OF IO CHANNEL

4.1 Analog input

Input type	4~20mA<default>, support: 0~20mA/0~5/1~5/0~10V (need open house to jumper)
Precision	0.1%, 16 bit
Refresh rate	0.01m

Modbus Register map

channel	Register address	Function code	Format	Scaling
AI0-AI23	40051-40074	03	UINT16	0.001

AI wiring diagram

