

CWT-MB318C

Modbus I O Module

manual

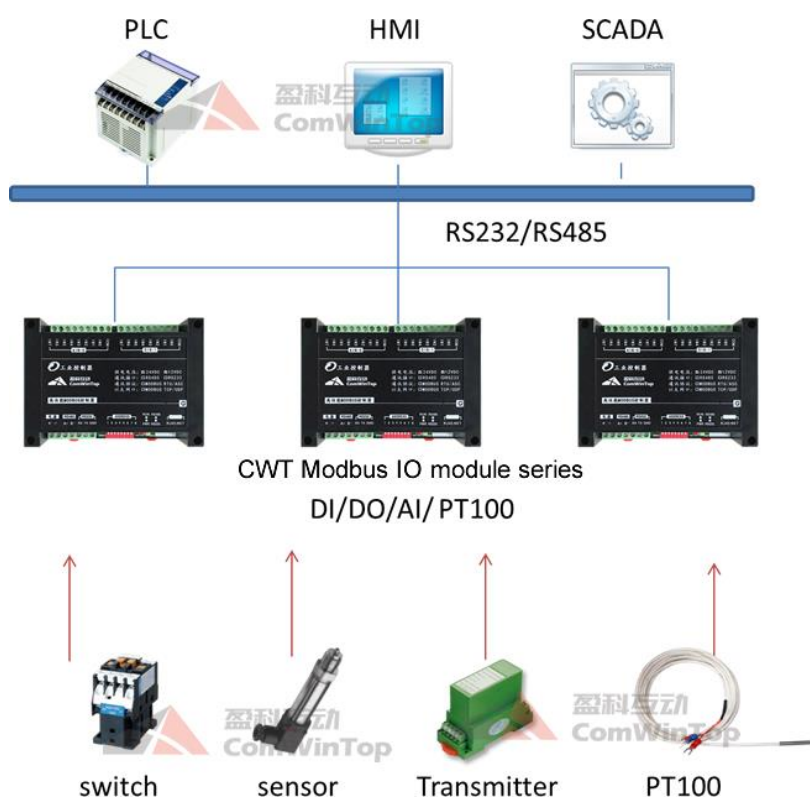
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1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB318C	485	8PT	RS485	Modbus RTU
	485-232	8PT	RS485+RS232	Modbus RTU
	E	8PT	Ethernet	Modbus TCP
	E-485	8PT	Ethernet+RS485	Modbus TCP, Modbus RTU
	E-485-232	8PT	Ethernet+RS485+RS232	Modbus TCP, Modbus RTU

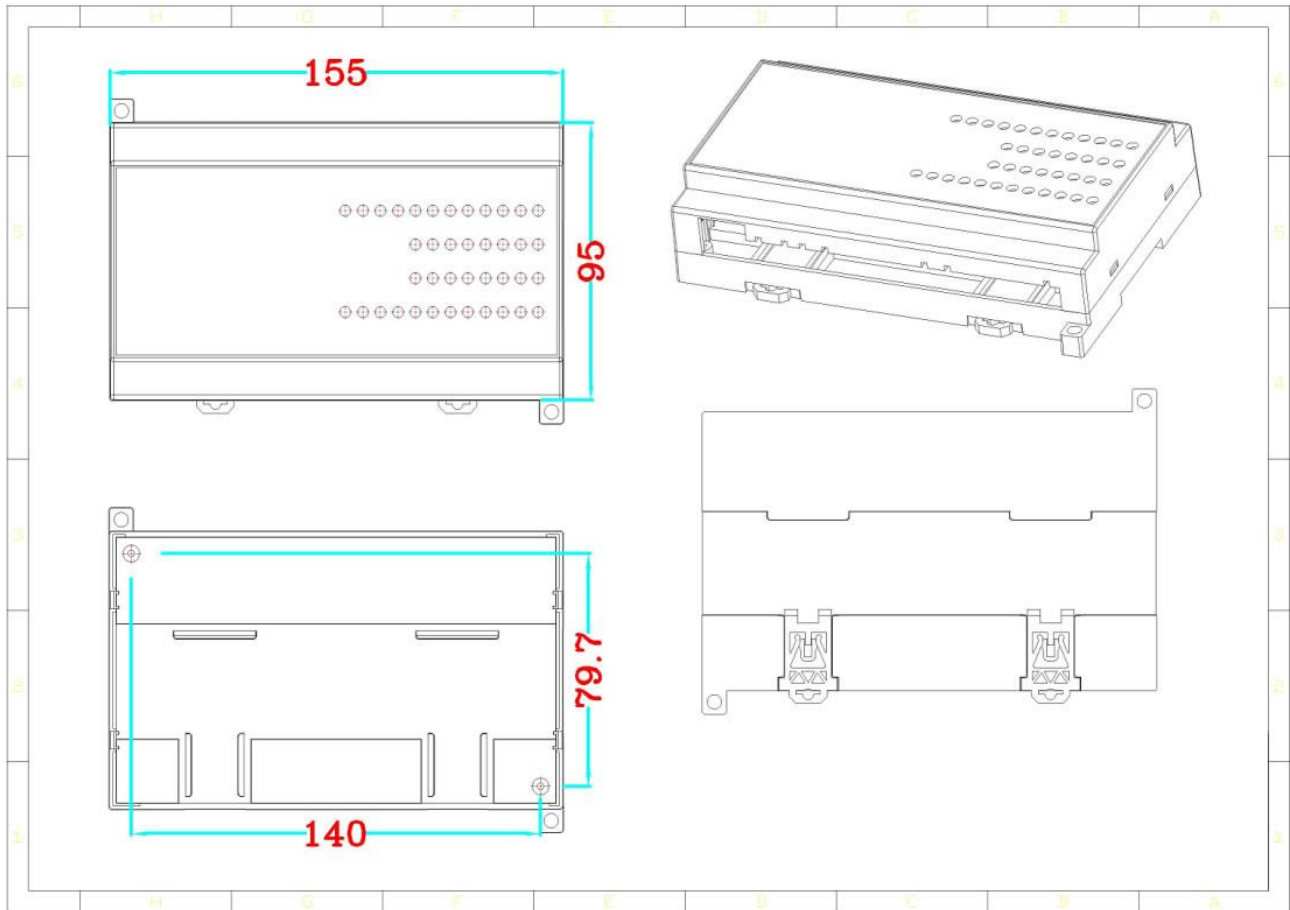


1.1 System Parameter

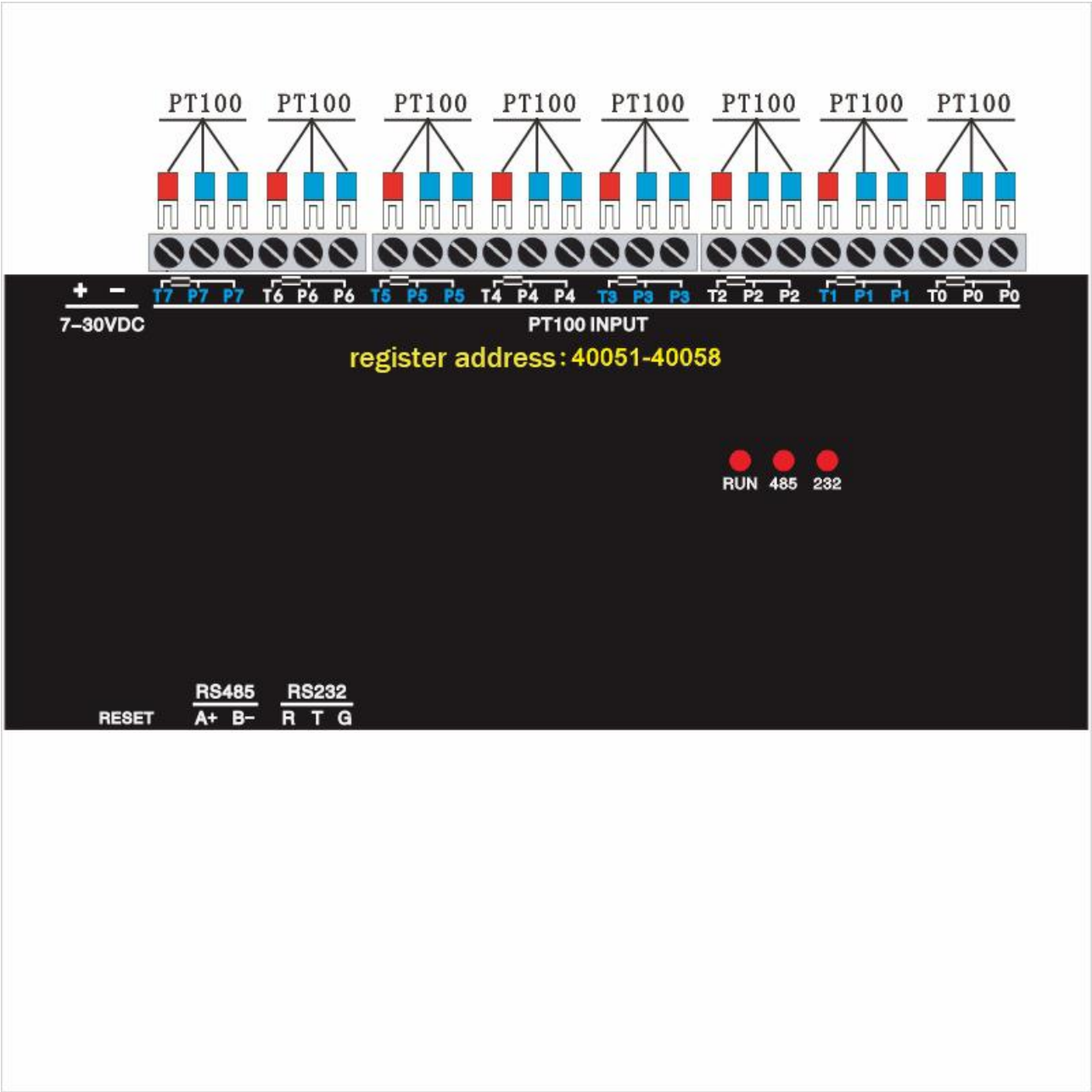
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃~85℃, 5%~95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

2 INSTALL

2.1 size



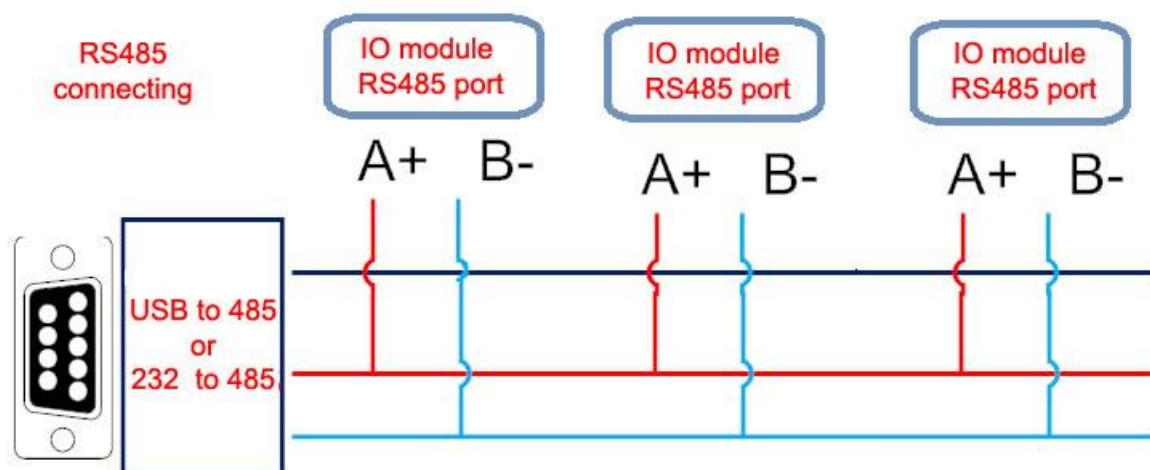
2.2 wiring



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

INFO

ID1

ID2

USER

MODULE INFO

RS232/RS485

COM IDCOM4ParityNONE

Baud Rate9600Word Length8

Device Id1Stop Bits1

TCP/IP

IP Address:192.168.1.75

Service Port:502

UART0-RS485

Address

Baud Rate

Parity

Length

Stop Bits

Dev Type

Protocol

TimeOut10ms

UART1-RS232

Address

Baud Rate

Parity

Length

Stop Bits

Dev Type

Protocol

TimeOut10ms

TCP IP

Address==RS485

IP Address

Service Port

Net_Subr

GateWay

MAC

KeepLive

*30s

<=255

USER

SEL

RS232/RS485

READ

WRITE

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

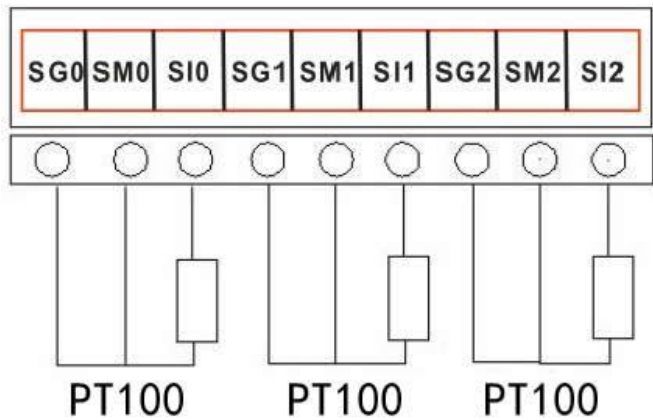
4.1 PT100 Input

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

Modbus Register map

channel	Register address	Function code	Format	Scaling
PT0-PT7	40051-40058	03	signed UINT16	0.1

Three wire



Two wire

