

CWT-MB307J

Modbus I O Module

manual

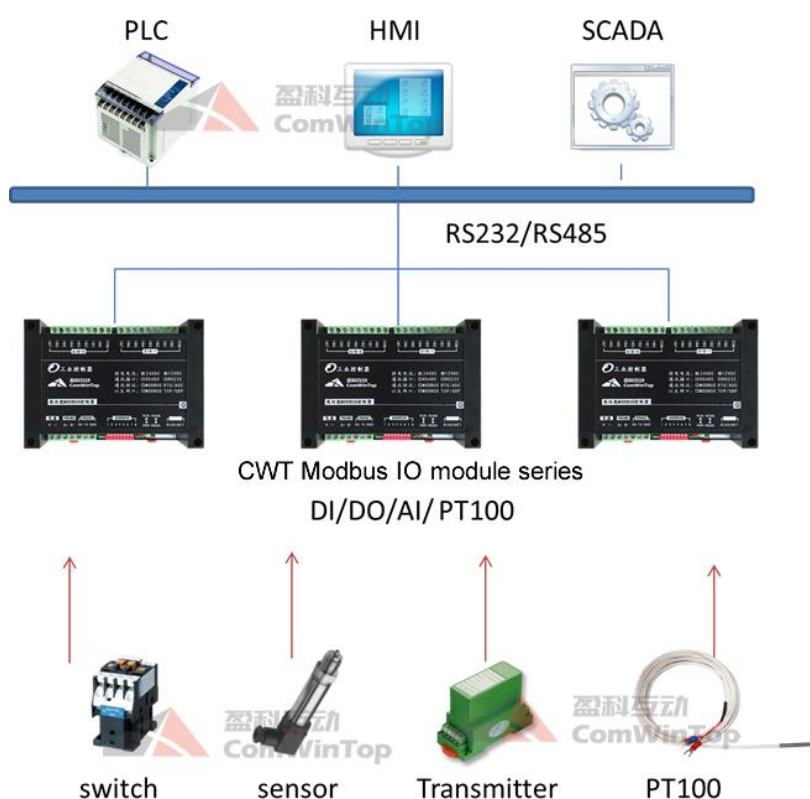
CONTENTS

- 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 ANALOG INPUT 8




1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB307J	I-485	16AI (4-20mA)	RS485	Modbus RTU
	I-485-232	16AI (4-20mA)	RS485+RS232	Modbus RTU
	I-V-485	16AI (4-20mA/0-10V)	RS485	Modbus RTU
	I-V-485-232	16AI (4-20mA/0-10V)	RS485+RS232	Modbus RTU
	I-V-E	16AI (4-20mA/0-10V)	Ethernet	Modbus TCP
	I-V-E-485	16AI (4-20mA/0-10V)	Ethernet+RS485	Modbus TCP, Modbus RTU
	I-V-E-485-232	16AI (4-20mA/0-10V)	Ethernet+RS485+RS232	Modbus TCP, Modbus RTU

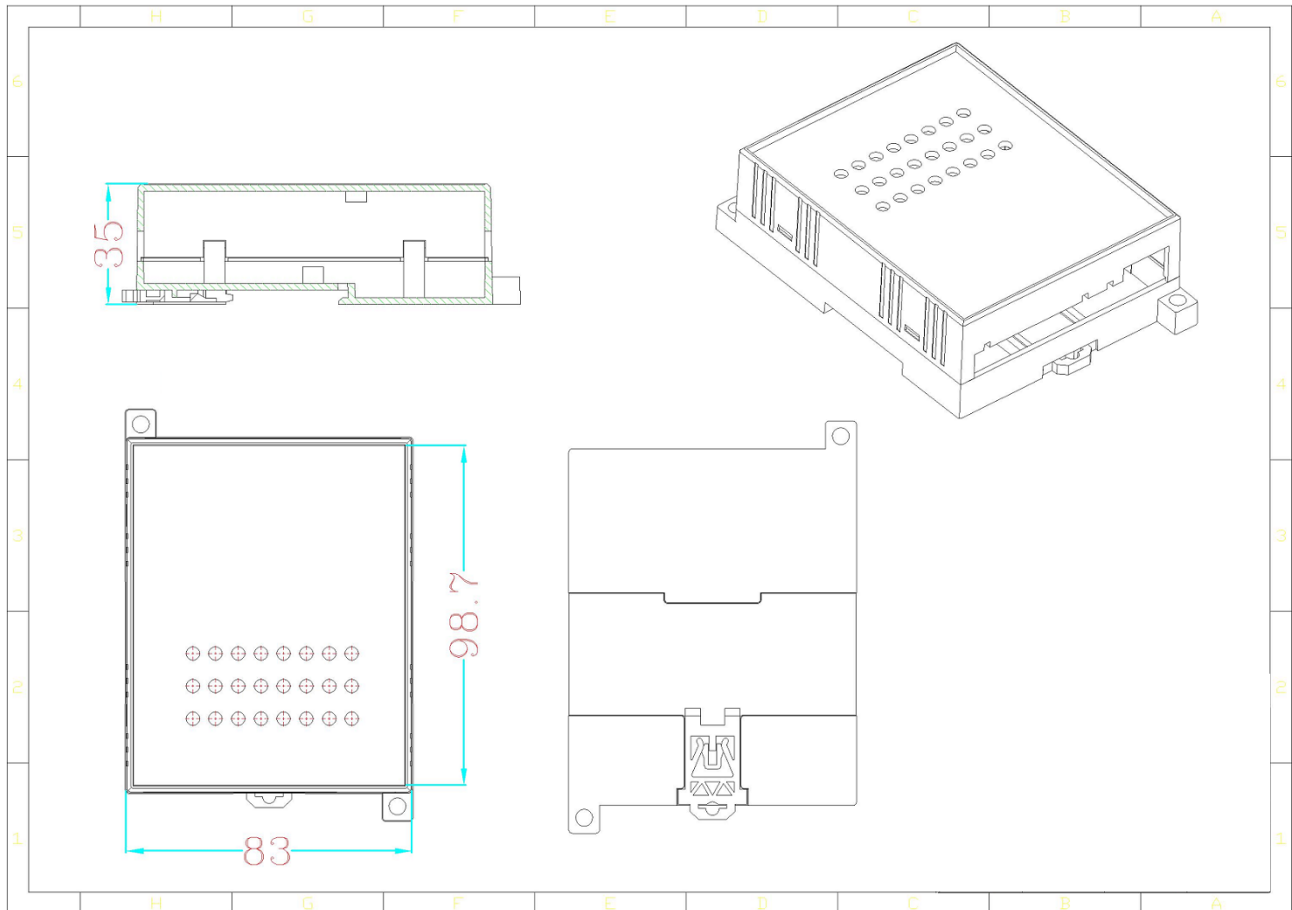


1.1 System Parameter

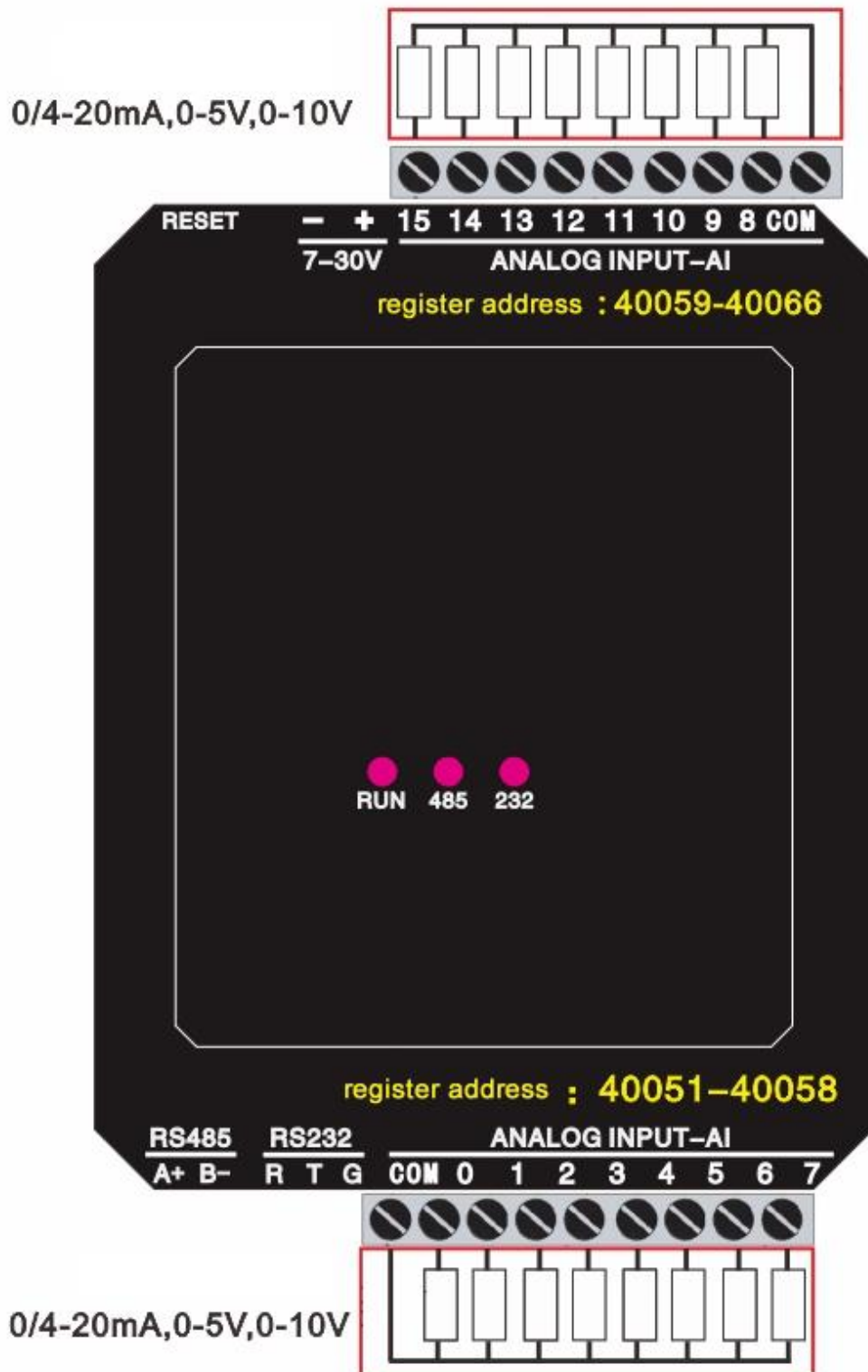
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃~85℃, 5%~95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

2 INSTALL

2.1 size



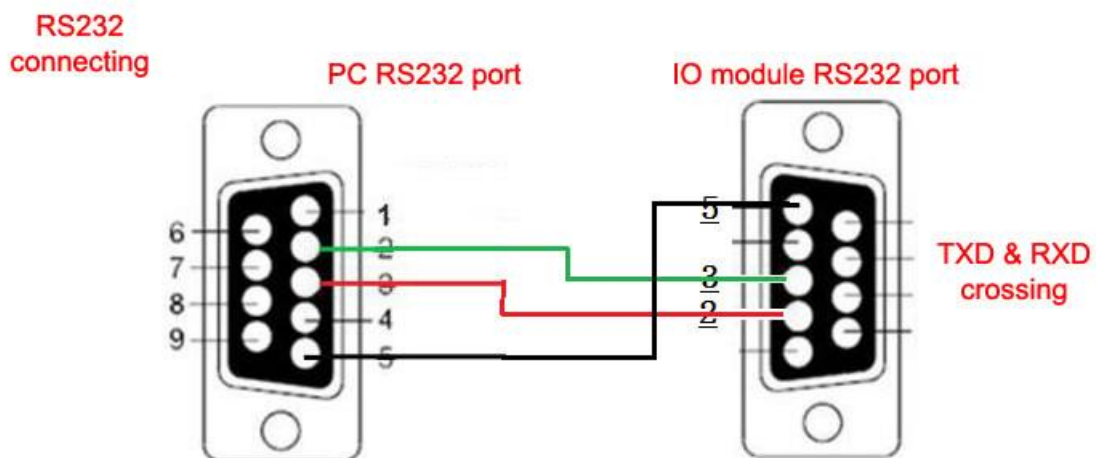
2.2 wiring



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

«CFG» Data Acquisition Module

INFO

ID1
ID2
USER

MODULE INFO

RS232/RS485

COM ID: COM4 Parity: NONE
Baud Rate: 9600 Word Length: 8
Device Id: 1 Stop Bits: 1

TCP/IP
IP Address: 192.168.1.75
Service Port: 502

UART0-RS485

Address
Baud Rate
Parity
Length
Stop Bits
Dev Type
Protocol
TimeOut 10ms

UART1-RS232

Address
Baud Rate
Parity
Length
Stop Bits
Dev Type
Protocol
TimeOut 10ms

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 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-AI15	40051-40066	03	UINT16	0.001

AI wiring diagram

