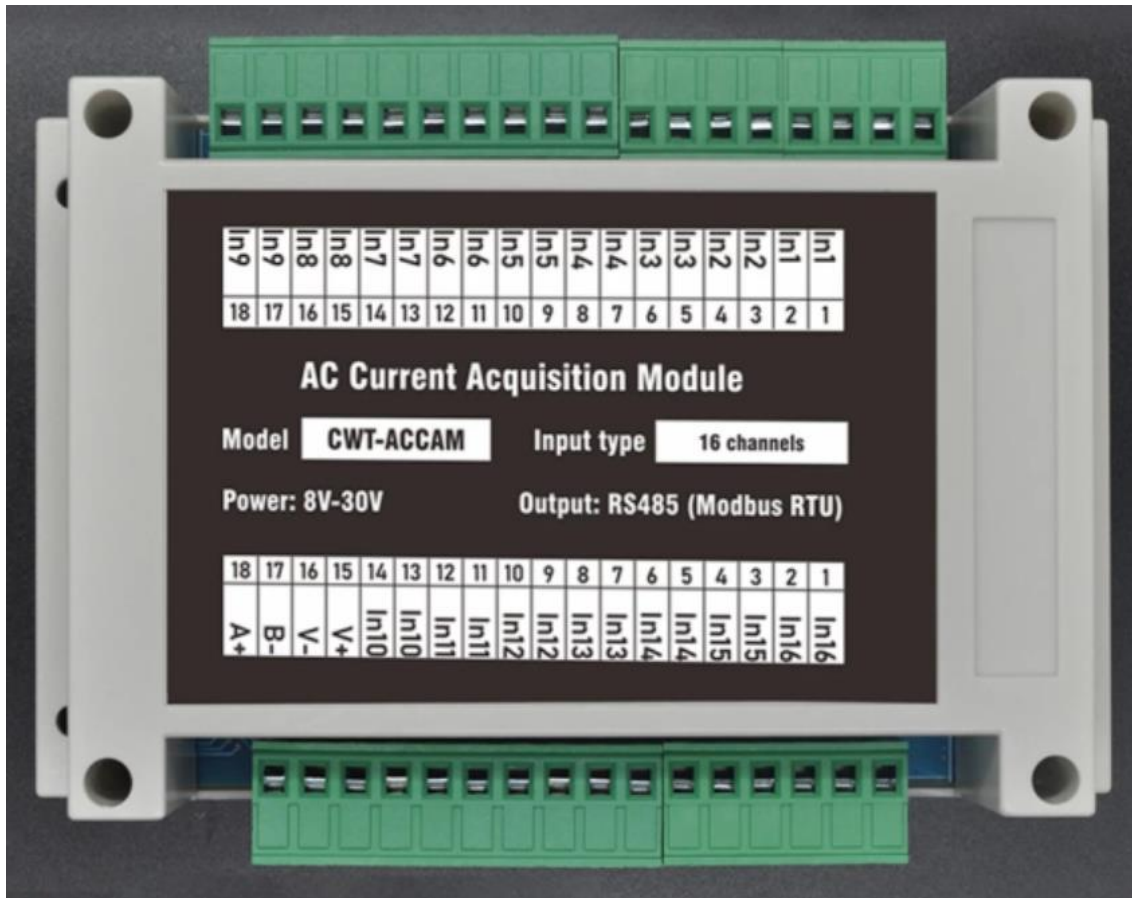


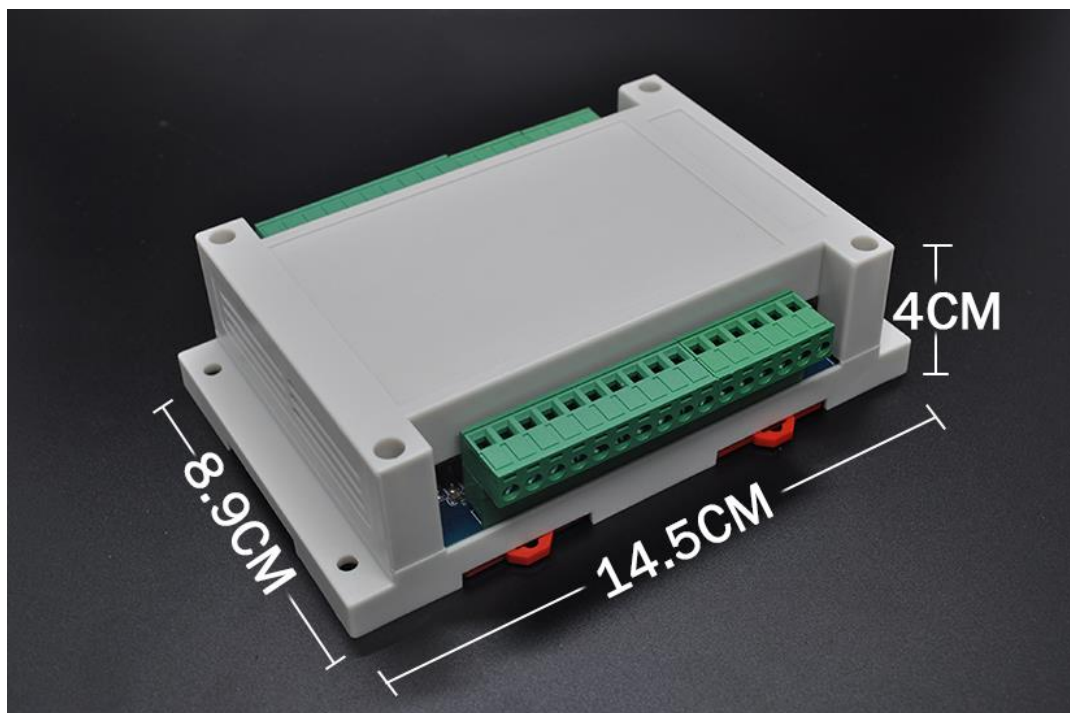
16-channel RS485 Modbus AC Current Acquisition Module



Summary

Main characteristics

1. 9 channel, Range specification 5A(5.5A Max), use 10A Plug terminal, Long term working current is recommended to be less than 5A
2. measurement accuracy: Each channel is independent 24Bit AC sampling, Accuracy is better than 1%, All channels with 0.1s simultaneous sampling
3. 16 external current transformer, If you need to measure big current or the field wiring is not convenient, external transformer can be used
4. Isolated RS485 port, support Modbus RTU Protocol that can be compared with PLC、SCADA, text display, etc.
5. Wide operating voltage: DC 8V-30V, reverse polarity protection
6. Working temperature : -35℃ ~ +50℃
7. Data format output:
 - A) 32Bit standard IEEE-754 Floating, does not need any conversion unit is A
 - B) 16 long unsigned integer, unit is mA
8. No interference between channels, even the input signal more than the range many times
9. Mount method: standard 35mm DIN-Rail Mounting
10. Size: 145(L)*90(W)*40(H)



Terminal description

Terminals	description
V+	Power + (DC8V-30V)
V-	Power -
INx	CT in
INx	CT in
A	RS485 +
B	RS485 -

RS485 communication (Modbus RTU protocol)

Default parameters: 9600,n,8,1

Default device address is 1

Modbus register map

1. Parameter register map

Function code: 03H (read), 06H (write)

Address (hex)	Byte order	Meaning	Description	Property
10	LO	Communication parameters	BIT<7:5> reserve BIT<4:3> 00=none 01=even 10=odd (11= odd) BIT<2:0> 000=9600 001=1200 010=2400 011=4800 100=9600 101=14400 110=19200 initial value: 00	RW
	Hi	address	1-250 initial value: 01	RW

2. Data register map

Function code: 03H (read)

Address (hex)	Description	Format		Number of bytes	Property
20H	Channel 1	Float		4	R
22H	Channel 2			4	R
24H	Channel 3			4	R
26H	Channel 4			4	R
28H	Channel 5			4	R
2AH	Channel 6			4	R
2CH	Channel 7			4	R
2EH	Channel 8			4	R
30H	Channel 9			4	R
32H	Channel 10			4	R
34H	Channel 11			4	R
36H	Channel 12			4	R
38H	Channel 13			4	R
3AH	Channel 14			4	R
3CH	Channel 15			4	R
3EH	Channel 16			4	R
60H	Channel 1	UINT	Scale: 0.001	2	R
61H	Channel 2			2	R
62H	Channel 3			2	R
63H	Channel 4			2	R
64H	Channel 5			2	R
65H	Channel 6			2	R
66H	Channel 7			2	R
67H	Channel 8			2	R
68H	Channel 9			2	R
69H	Channel 10			2	R
6AH	Channel 11			2	R
6BH	Channel 12			2	R
6CH	Channel 13			2	R
6DH	Channel 14			2	R
6EH	Channel 15			2	R
6FH	Channel 16			2	R