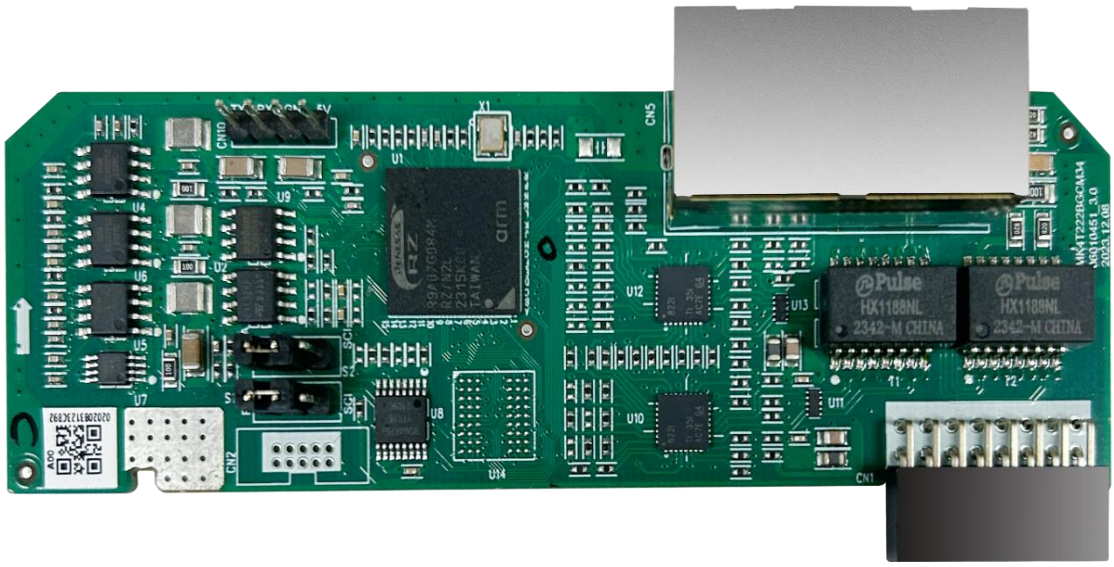
Contents

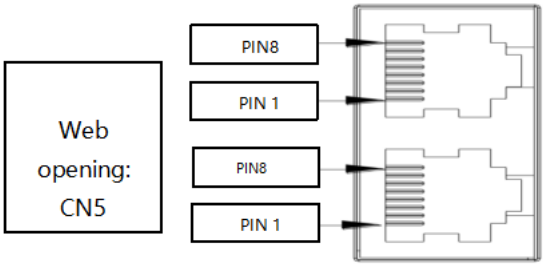
1. Product Presentation.....2
2. Port definition and jumper switch description.....2
3. Instructions for the electrical connection 3
4. MODBUS, External address table.....4
5. Test tools.....5
6. Board card restore factory parameters.....5
7. With Modbus Poll software test communication.....5
8. Change the IP address online.....9

1. Product Presentation



Picture of EPC-CM39

2. Port definition and jumper switch description



Port definition

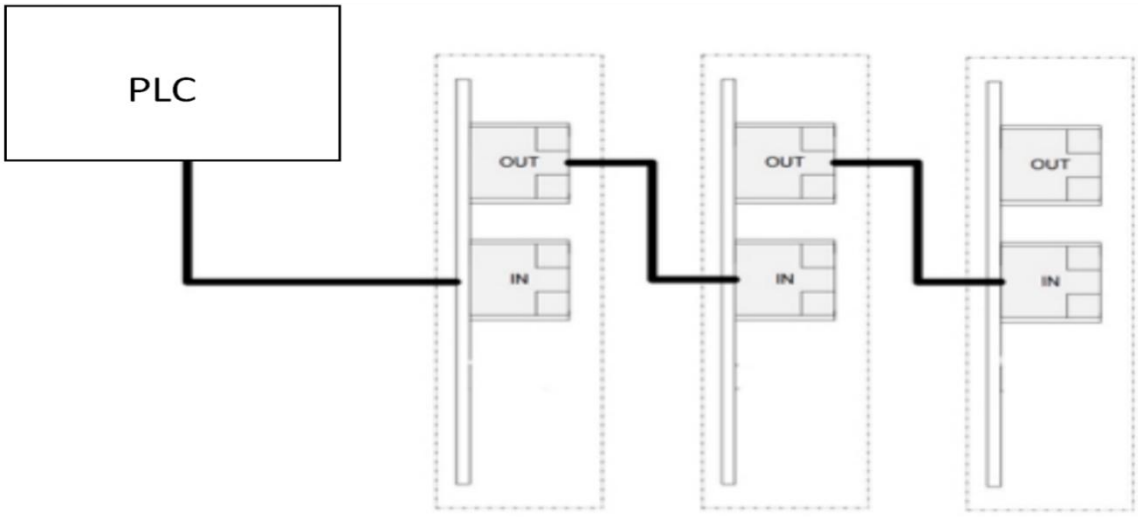
Description of jumper switch

Jump line switch	functional description	Factory setting
S1 & S2	Flash: Normal mode	Flash
	SCI: burning mode	

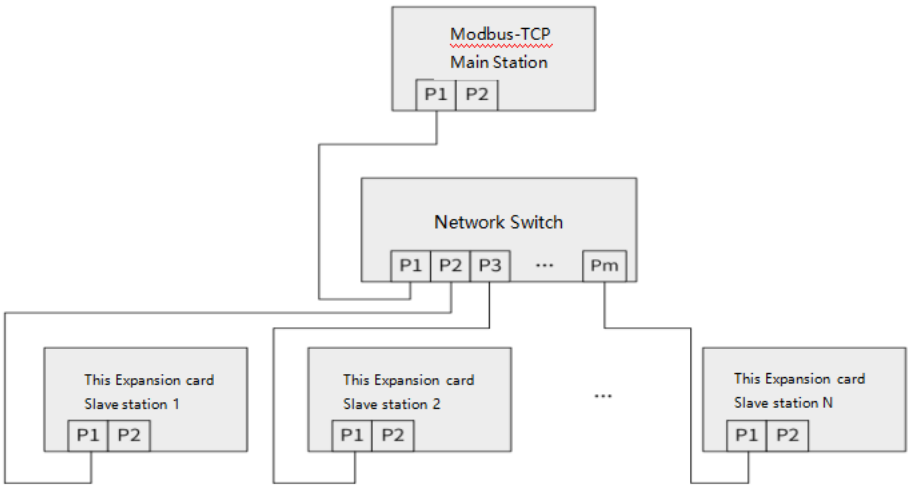
3. Instructions for the electrical connection

EPC-CM39 module connects standard Ethernet RJ 45 port to Modbus-TCP master station, and its pin signal definition is consistent with standard Ethernet pin, with cross line and direct connection.

The topology supported by EPC-CM39 module includes bus, star, tree, etc. It can be realized by using switches.



Total line-type connection topology map



Star-type connection topology map

4. MODBUS, External address table

MODBUS Address	Function Code	SPI mapping address	GK900 Parameter, number
40001…40010	03H,06H,10H	0x0000…0x0009	A0 group, 10
40129…40150	03H,06H,10H	0x0100…0x0115	A1 group, 22
40257…40276	03H,06H,10H	0x0200…0x0213	B0 group, 20
40385…40406	03H,06H,10H	0x0300…0x0315	B1 group, 23
40513…40535	03H,06H,10H	0x0400…0x0416	B2 group, 23
40641…40667	03H,06H,10H	0x0500…0x051A	C0 group, 27
40769…40782	03H,06H,10H	0x0600…0x0617	C1 group, 24
40897…40927	03H,06H,10H	0x0700…0x071E	C2 group, 31
41025…41036	03H,06H,10H	0x0800…0x080B	C3 group, 12
41153…41179	03H,06H,10H	0x0900…0x091A	C4 group, 27
41281…41321	03H,06H,10H	0x0A00…0x0A28	D0 group, 41
41409…41447	03H,06H,10H	0x0B00…0x0B26	D1 group, 21
41537…41584	03H,06H,10H	0x0C00…0x0C2F	D2 group, 48
41665…41705	03H,06H,10H	0x0D00…0x0D28	D3 group, 41
41793…41813	03H,06H,10H	0x0E00…0x0E26	D4 group, 21
41921…41968	03H,06H,10H	0x0F00…0x0F2F	D5 group, 48
42049…40061	03H,06H,10H	0x1000…0x100C	E0 group, 13
42177…42210	03H,06H,10H	0x1100…0x1121	E1 group, 34
42305…42338	03H,06H,10H	0x1200…0x1221	E2 group, 34
42433…42457	03H,06H,10H	0x1300…0x1318	F0 group, 25
42561…42579	03H,06H,10H	0x1400…0x1411	F1 group, 18
42689…42721	03H,06H,10H	0x1500…0x1520	F2 group, 33
42817…42830	03H,06H,10H	0x1600…0x160D	F3 group, 14
42945…43031	03H,06H,10H	0x1700…0x1756	F4 group, 87
43073…43088	03H,06H,10H	0x1800…0x180f	F5 group, 16
43201…43216	03H,06H,10H	0x1900…0x190F	F6 group, 16
43329…43338	03H,06H,10H	0x1A00…0x1A09	H0 group, 10
43457…43477	03H,06H,10H	0x1B00…0x1B14	H1 group, 21
43585…43595	03H,06H,10H	0x1C00…0x1C0A	H2 group, 11
43713…43717	03H,06H,10H	0x1D00…0x1D04	L0 group, 5
43841…43844	03H,06H,10H	0x1E00…0x1E03	L1 group, 4
43969…44059	03H,06H,10H	0x1F00…0x1F5A	U0 group, 91
44097…44123	03H,06H,10H	0x2000…0x201A	U1 group, 27
44225…44241	03H,06H,10H	0x2100…0x2110	U2 group, 17
44353…44373	03H,06H,10H	0x6200…0x6214	Control parameters, 21 (2 available)
44481…44516	03H,06H,10H	0x6300…0x6323	State parameters, 36

609…44612	H	TP IP ADDR	
613…44616	H,06H,10H		

5. Test tools

Computer, network cable, Modbus Poll software.

6. Board card restore factory parameters

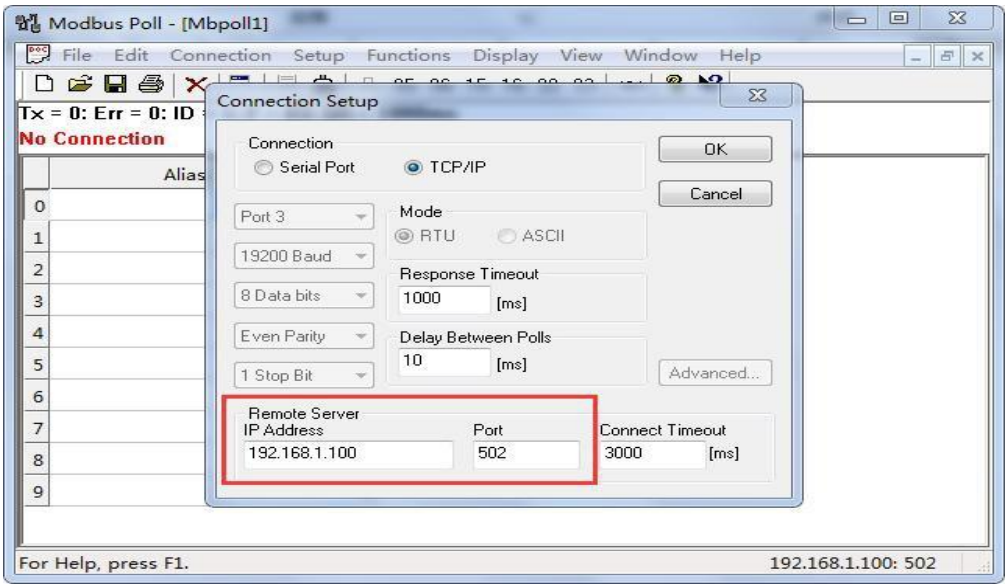
The factory default IP address of the board card is 192.168.1.5

IP method: H0.11 is set to 1, the frequency converter is powered off, and the MTP card IP address is restored to the factory default.

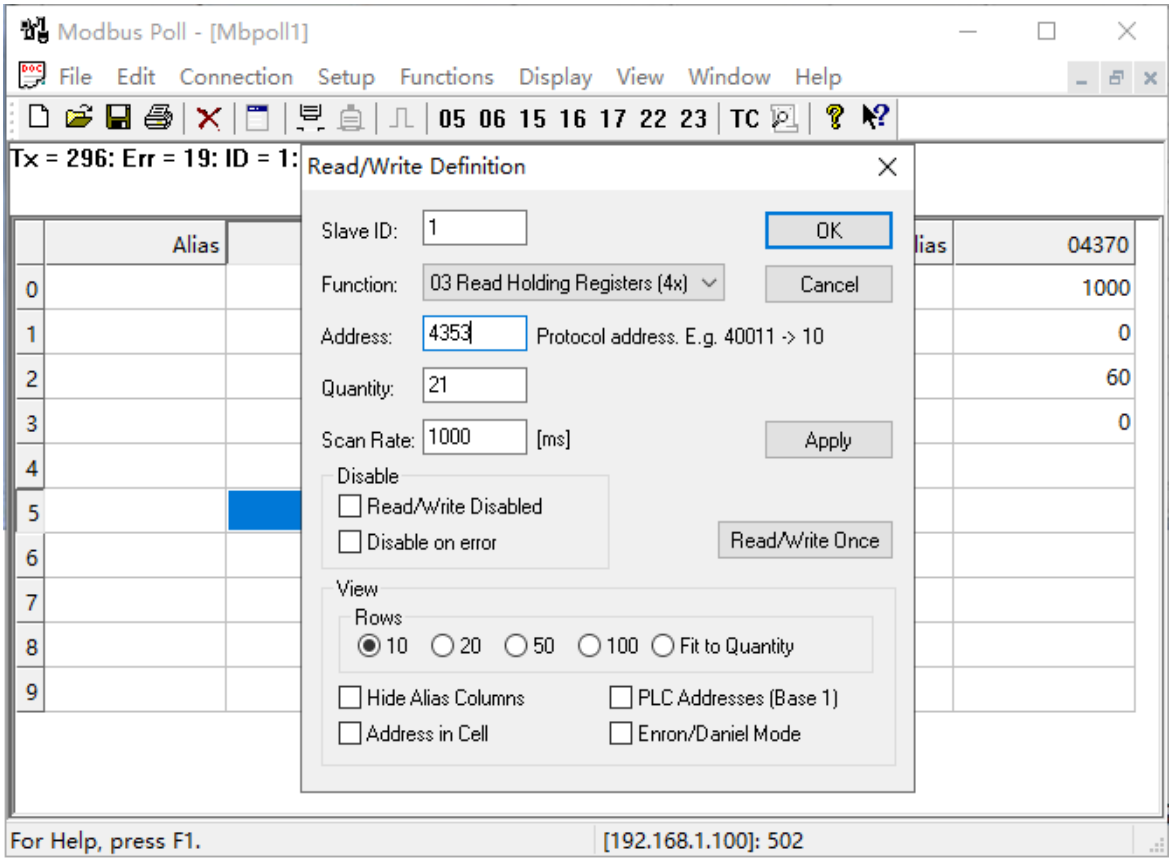
7. With Modbus Poll software test communication

1. Set the computer IP and board card in the same network segment.
2. Open the Modbus Poll software and click the menu bar "Connection"

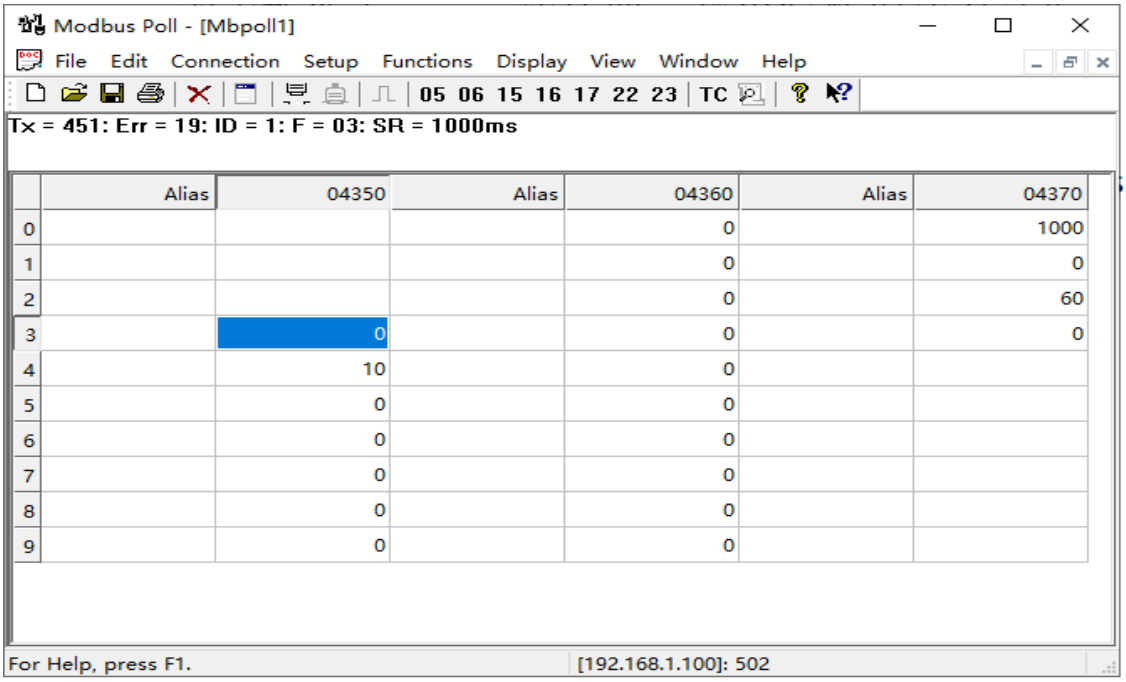
"Connect.....", set the connection attribute, fill the remote IP address into the current IP address port number of the card using 502, and then click OK to start communication.



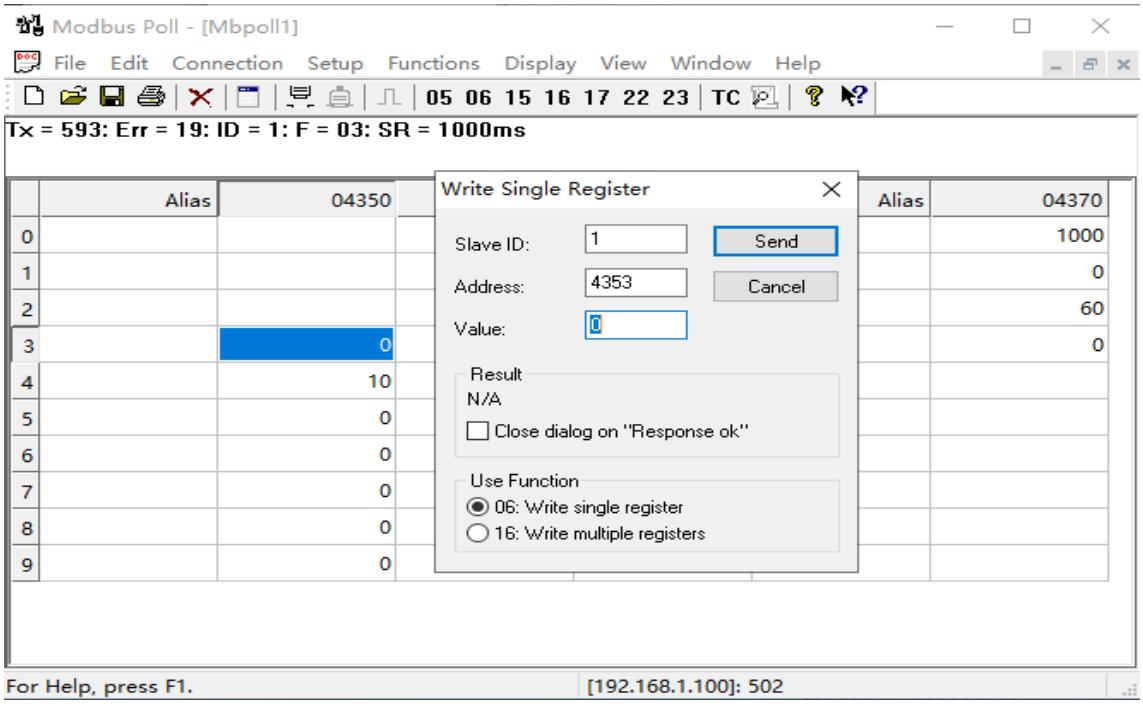
3. Click the menu bar "Setup" "Read / Write Definition..." to set the read / write properties. Slave ID Ignore; Function select 03 function code, corresponding to 4xxxx area; Address and Quantity in the following figure indicate 21 data read from 4353 address. Note that Quantity cannot exceed the maximum number of functional codes in this group 21.



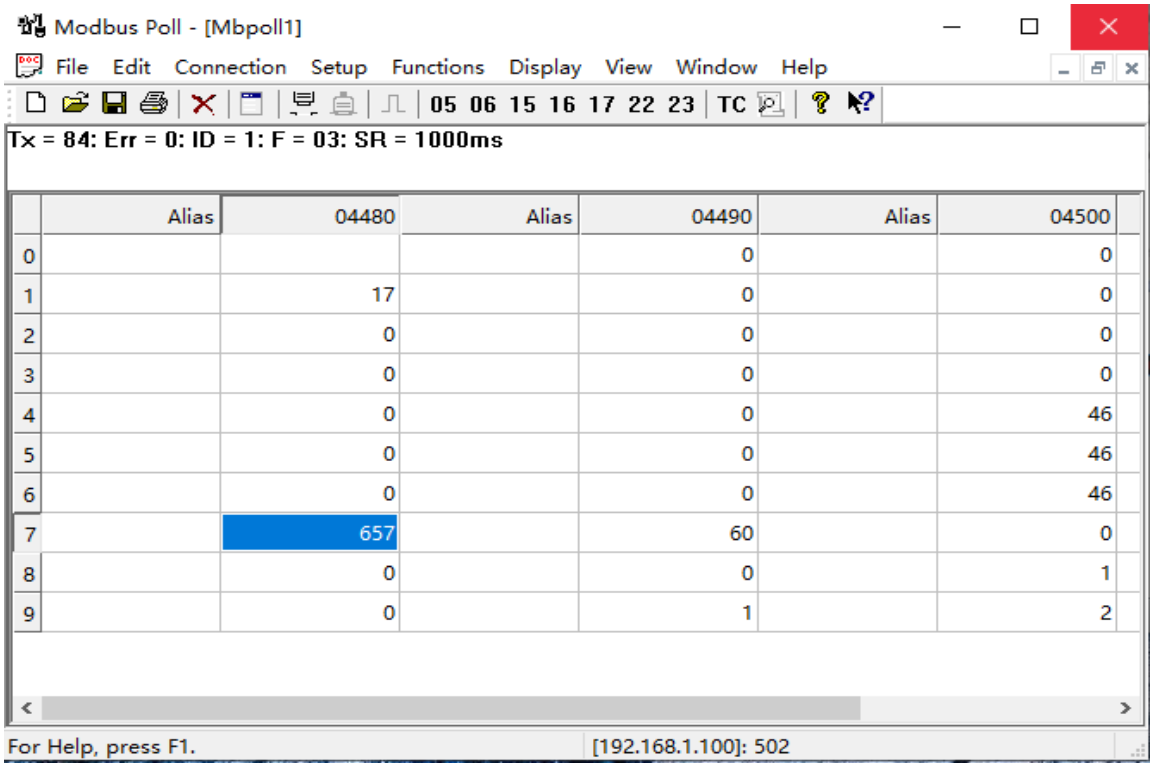
4. Some data is read correctly



5. Double-click the position of 4353 in the software and display the dialog box. According to the address table, 4353 represents the control word of the internal 6200. In the dialog box, change Value to 1, the function code can select 06 or 16, and then click send.



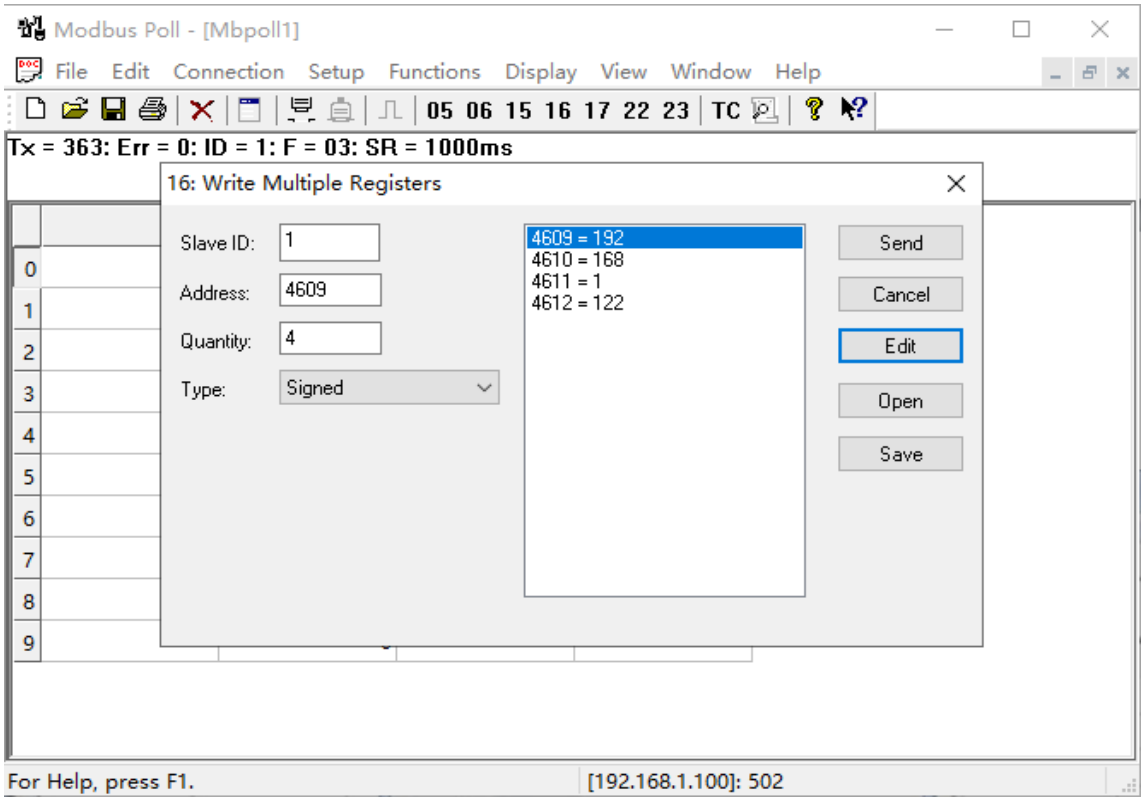
6. At this time, the bottom plate of the frequency converter is running, and the startup state corresponding to address 4481 is 17, and the bus voltage of address 4487 is 657.



7. Similarly, setting 4353 to 0 can stop the frequency converter. Other communication commands should follow this practice.

8. Change the IP address online

1. Use the 16 (10H) function to change the data at addresses 4609~4612 to 192,168,1,122, and then click Send Press. At this time, the IP address 192.168.1.122 is temporarily present on the board card and has taken effect. The board card is already working according to the new IP address.



2. After modifying the IP, the Modbus Poll connection has been disconnected and restart the Modbus Poll software is required to follow the new 192.168.1.122.