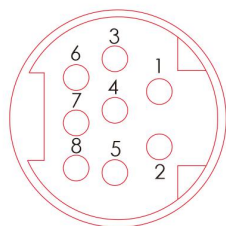


1.1 RS232 port



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| Pin | Description | Function |
|-----|-------------|--------------|
| 5 | TXD | Send data |
| 4 | RXD | Receive data |
| 8 | GND | GND |

1.1.1 Communication format setting

| COM port | Protocol | Mode | | Communication settings remain |
|--------------|--------------------------------------|--------------------------------|---------|-------------------------------|
| RS232 (COM1) | D1036 (Default:H86) | M1139 | | M1138 |
| | See the communication protocol table | ASCII:OFF (Factory default) | RTU: ON | |

1.1.2 D1036&D1120 communication protocol table:

| | content | 0 | 1 |
|----------------------|-----------------|---------------------------|------------------------|
| b0 | Data length | b0=0:7 (Factory default) | b0=1:8 |
| b1 b2 | Parity check | b2, b1=00 | None |
| | | b2, b1=01 | Odd |
| | | b2, b1=11 | Even (Factory default) |
| b3 | Stop bit | 1bit (Factory default) | 2bit |
| b4 b5 b6 b7 | b7~b4=0001 (H1) | 110bps | |
| | b7~b4=0010 (H2) | 150bps | |
| | b7~b4=0011 (H3) | 300bps | |
| | b7~b4=0100 (H4) | 600bps | |
| | b7~b4=0101 (H5) | 1200bps | |
| | b7~b4=0110 (H6) | 2400bps | |
| | b7~b4=0111 (H7) | 4800bps | |
| | b7~b4=1000 (H8) | 9600bps (Factory default) | |
| | b7~b4=1001 (H9) | 19200bps | |
| | b7~b4=1010 (HA) | 38400bps | |
| b7~b4=1011 (HB) | 57600bps | | |
| b7~b4=1100 (HC) | 115200bps | | |

1.2 RS485port

1.2.1 Pin definition



| Pin | Function |
|-----|----------|
| D+ | 485 A |
| D- | 485 B |
| SG | 485 GND |

1.2.2 Communication format setting

| COM port | Protocol | Mode | Communication settings remain |
|--------------|--------------------------------------|----------------|-------------------------------|
| RS485 (COM2) | D1120 | M1143 | M1120 |
| | See the communication protocol table | ASCII : OFF | RTU: ON |

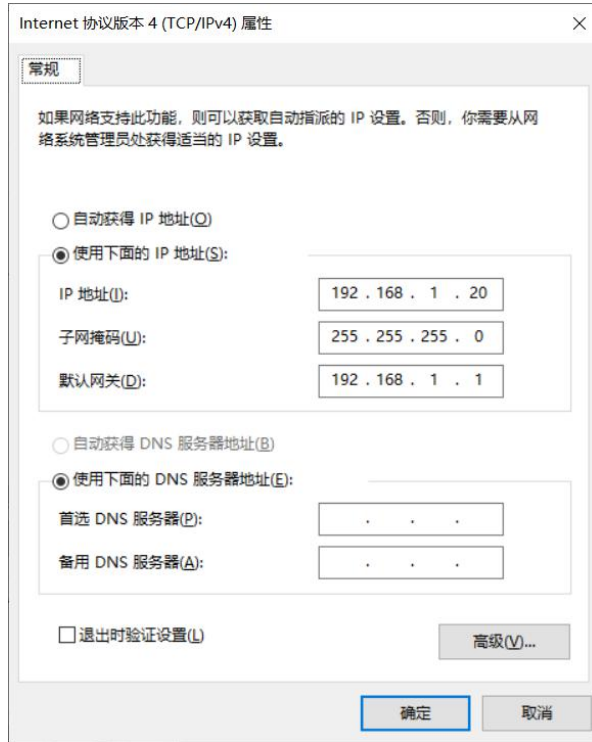
1.3 Ethernet communication

1.3.1 Configuration

The factory default IP address of the PLC controller is: 192.168.1.25 (Note: The address can be modified).

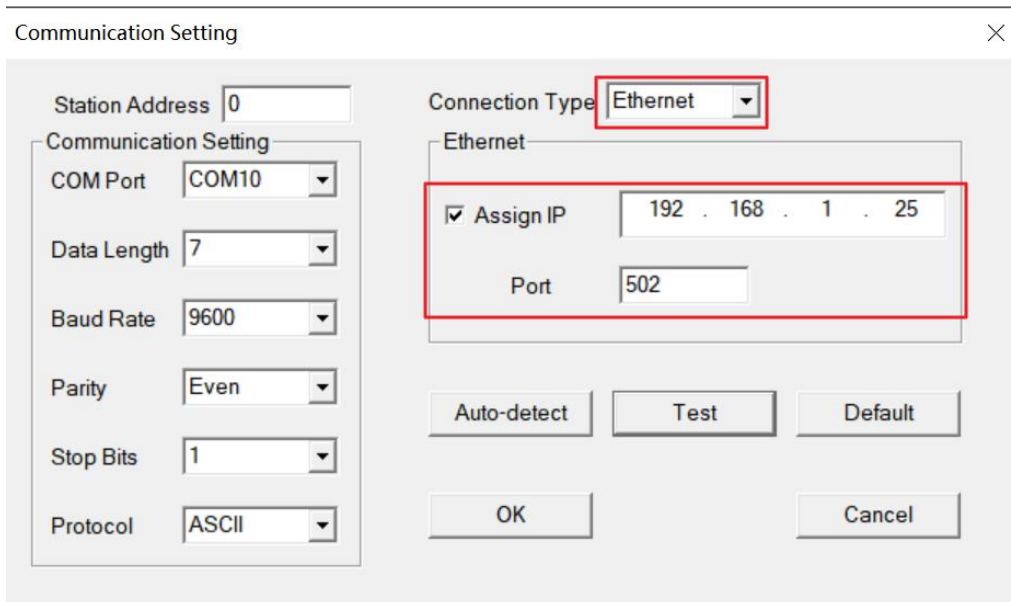
Before connecting the PC to the PLC controller, the IP address of the PC must be set. The IP address of the controller can be set arbitrarily, and users can set different IP addresses for the controller according to their own needs. In this example, the IP address is 192.168.1.25. The IP set by the PC is the first 3 IP addresses of the PLC controller. The fields must be the same, and the fourth field must be different. As shown in the figure below, the IP set on the PC is set to 192.168.1.20.

The peripherals that are to be linked with the controller must be in the same network segment as the controller (that is, the previous 3 segments are the same) and the IP address cannot be repeated, otherwise the link will fail.



1.3.2 Communication settings

The communication port address is D1211 and the fixed value is K502, which cannot be changed.



1.3.3 PLC IP address change

If the PLC controller IP address is: 192.168.1.25

K192 hexadecimal is HC0

K168 hexadecimal is HA8

K1 hexadecimal is H1

K25 hexadecimal is H19

Then D1212=HA8C0, D1213=H1901

The program is as follows:



1.4 USB port download program

- According to the computer system, install the corresponding USB driver (WIN8 and WIN10 drivers are common)
Set a M1293 switch button on the touch screen (M1293 factory default is OFF)
M1293: When it is ON, it works in computer mode.
M1293: When it is OFF, it works in U disk mode.

1.4.1 U disk download program

When M1293 is OFF, it works in U disk mode, and you can use U disk to download programs.

Tool: U Disk (USB2.0, FAT32)

Steps:

1. Using HNC HC2 PLC programming software, the file format of PLC.UJC will be automatically generated in the root directory of the program storage path after the compilation is completed.
2. Copy the file directly to the U disk, and the file name cannot be changed.
3. Turn off the PLC and plug the U disk into the USB interface of the PLC.
4. Turn on the PLC again, and the program will be updated successfully after 1S.

Note:

How to determine the success of PLC program update?

It is recommended to make a version number in the PLC program and display IT on the HMI.

For example: **MOV K100 D100**, when the program is updated, **MOV K101 D100**. Every time the program is updated, the value of D100 is changed.

1.4.2 Double-headed USB cable download program

When M1293 is ON, it works in computer mode. You can use a double-headed USB cable to connect both ends of the computer and PLC to download and online monitoring programs.

Operation steps:

If you are working in computer mode (that is, M1293 is ON), after the computer is installed with the driver, turn M1293 ON on the touch screen, a virtual serial port will be generated on the computer, and it will be used as a normal serial port. Choose the correct baud rate to connect to the board, the virtual serial port, the baud rate is not important, you can choose any baud rate to connect to the PLC.

Special attention:

When the PLC power is turned off, because the PC uses a double-headed USB cable to connect to the PLC, it will also supply power to the PLC CPU, so the PLC is still running. When the PLC is powered on again, it may cause the USB cable Unable to communicate normally.

Therefore, the specific operation must be followed: When the PLC is turned off, the USB cable on the computer or PLC end must be unplugged. When the PLC is powered on again, the POW and RUN lights are on, then the USB cable can be plugged in.

Use double-headed USB cable communication settings as shown in the figure:

