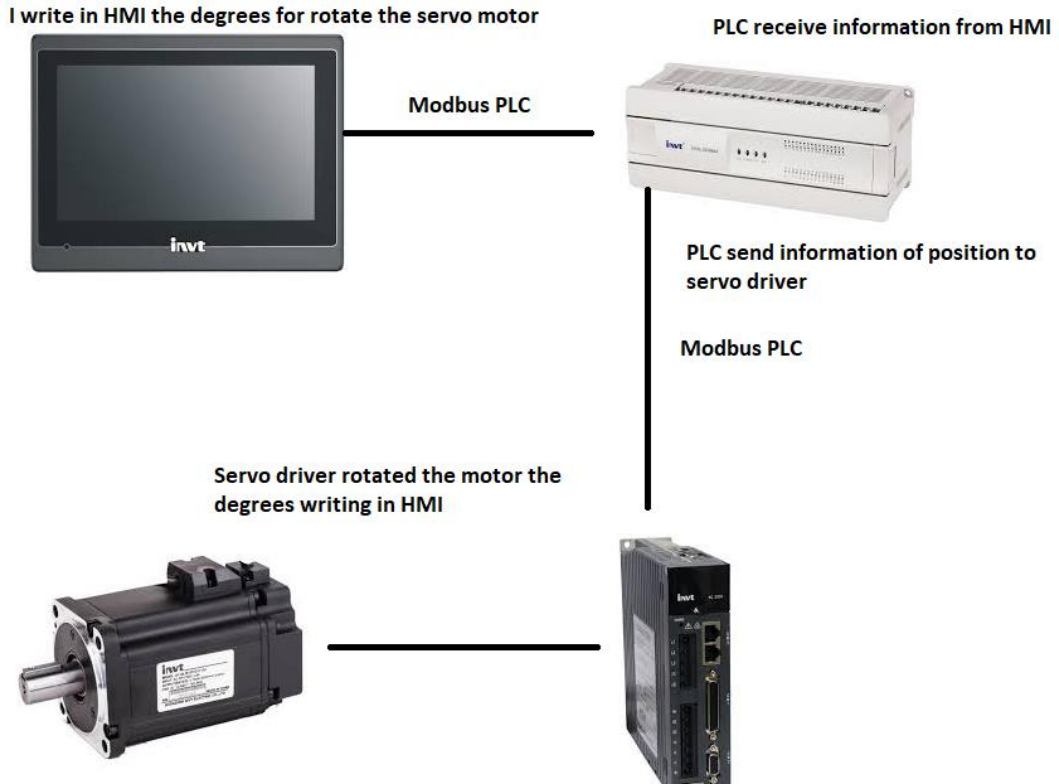
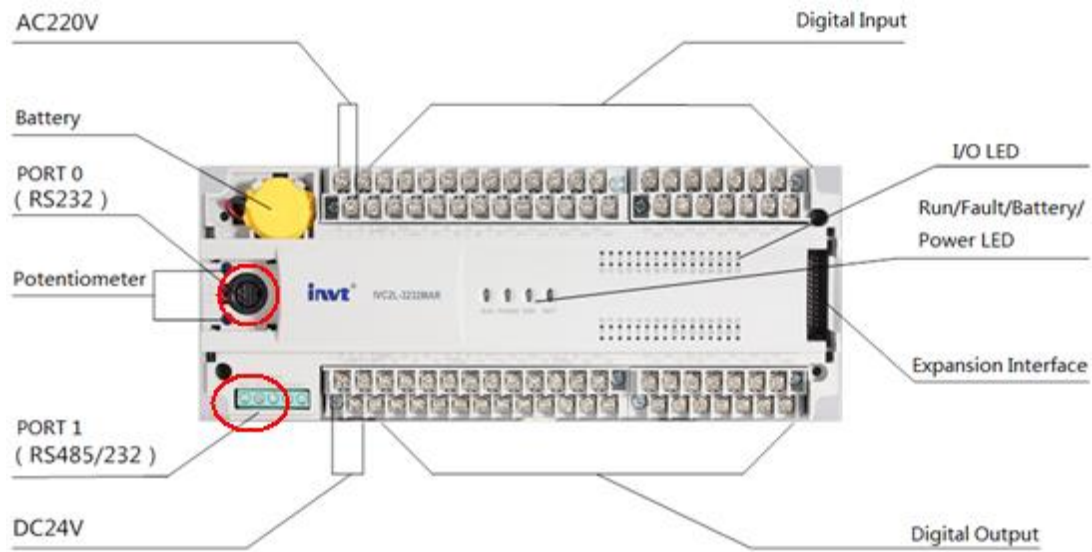


# HMI-PLC-SERVO COMMUNICATION

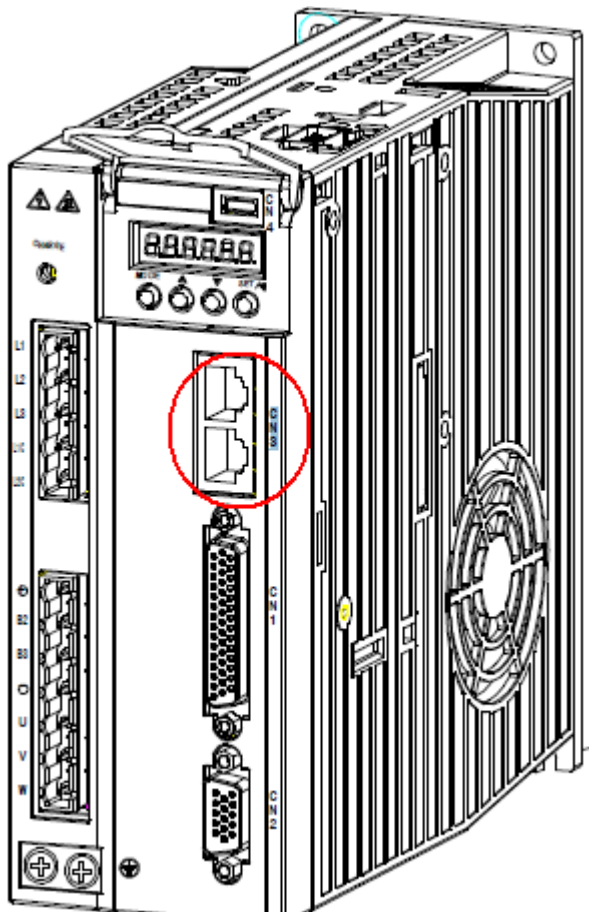


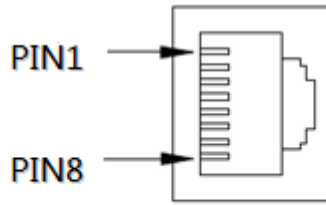
Overseas Technical support Department

1, Wiring connection: connect PLC and HMI with port0; connect PLC and servo with port1 (Modbus)



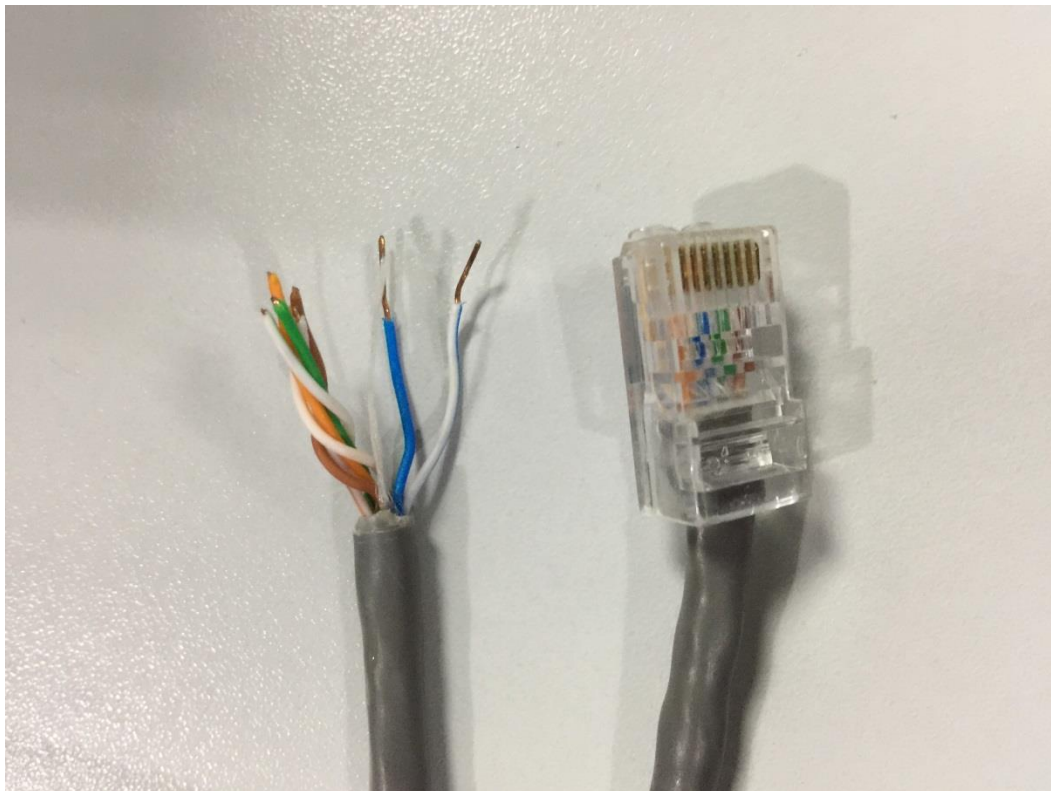
Servo side: connect to CN3 interface





CN3 terminal function			
Pin	Name	Function	Remark
1	GND_CAN	CAN chip power GND	485 and CAN use the same interface and each signal has two pins for multiple networking.
2	GND_485	485 chip power GND	
4	RS485+	RS485 data +	
5	RS485-	RS485 data -	
7	CAN_L	CAN data -	
8	CAN_H	CAN data +	
3, 6	-	Unused	

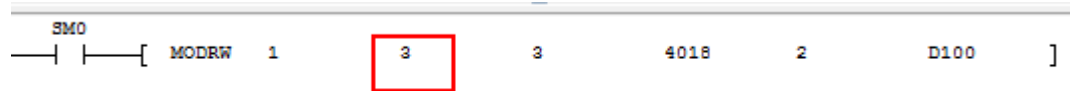
Make a cable by yourself like bellowing (make sure you find the right ones, the fourth and fifth)



## 2, Communication setting

Make PLC master station 1; HMI slave station 2; Servo slave station 3;

2.1 Write a Modbus read instruction to test whether the communication between PLC and servo is connected.



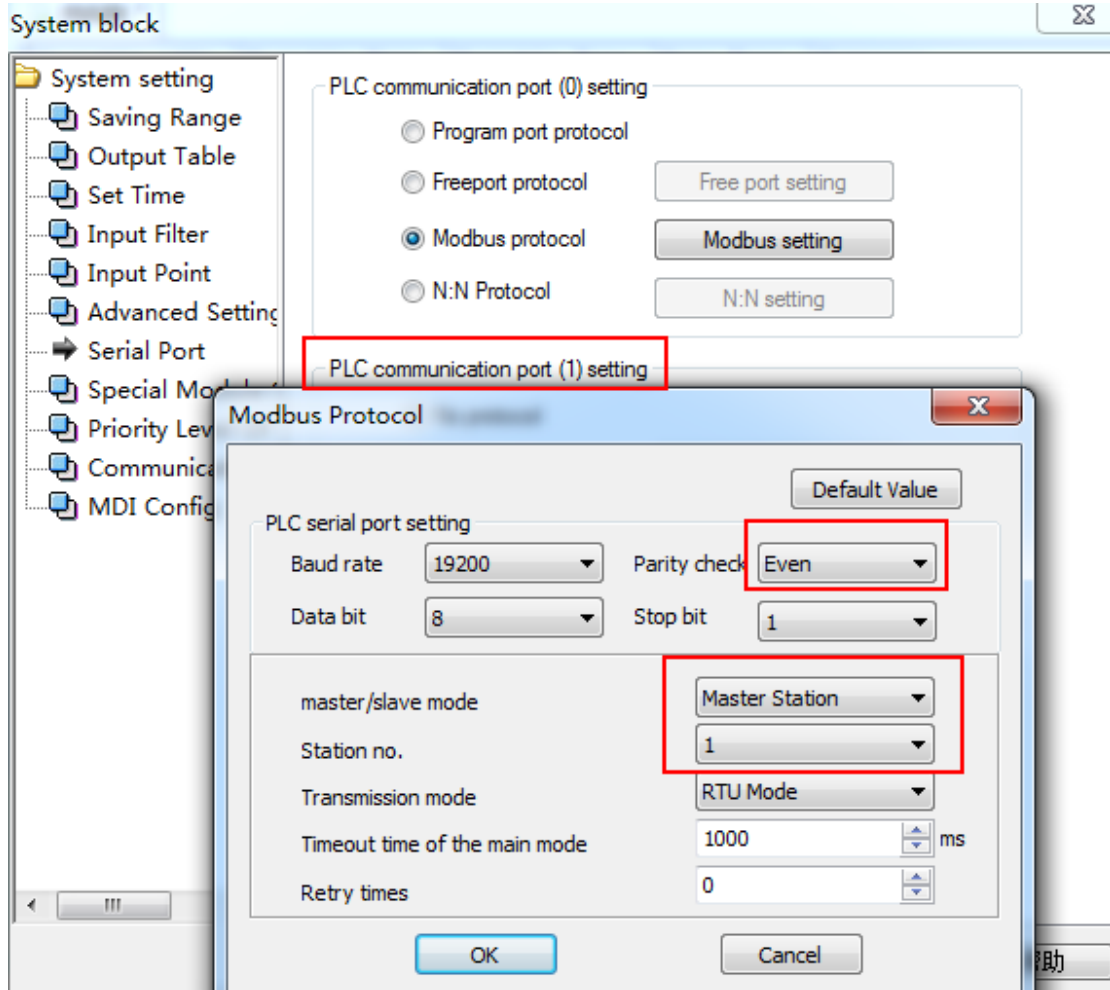
Note: The first '3' means servo slave station number.

### 2.1 Configure the serial port

The screenshot displays the 'Auto Station' software interface. The 'System block' configuration window is open, showing the 'PLC communication port (0) setting' section. The 'Modbus protocol' is selected. A 'Modbus Protocol' dialog box is overlaid on top, showing the following settings:

- PLC serial port setting: Baud rate: 19200, Parity check: Even, Data bit: 8, Stop bit: 1.
- master/slave mode: Slave Station
- Station no.: 2 (highlighted with a red box)
- Transmission mode: RTU Mode
- Timeout time of the main mode: 1000 ms
- Retry times: 0

The 'Serial Port' option in the 'System block' tree is also highlighted with a red box. The 'Output Window' at the bottom shows buttons for '确定' (OK), '取消' (Cancel), and '帮助' (Help).



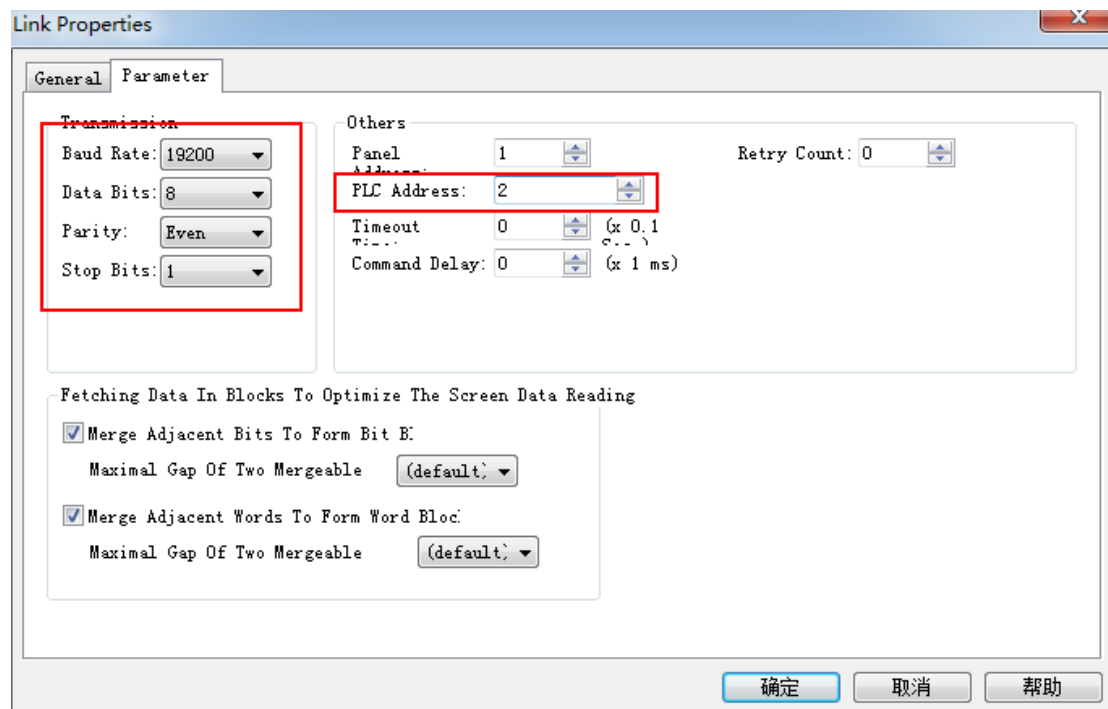
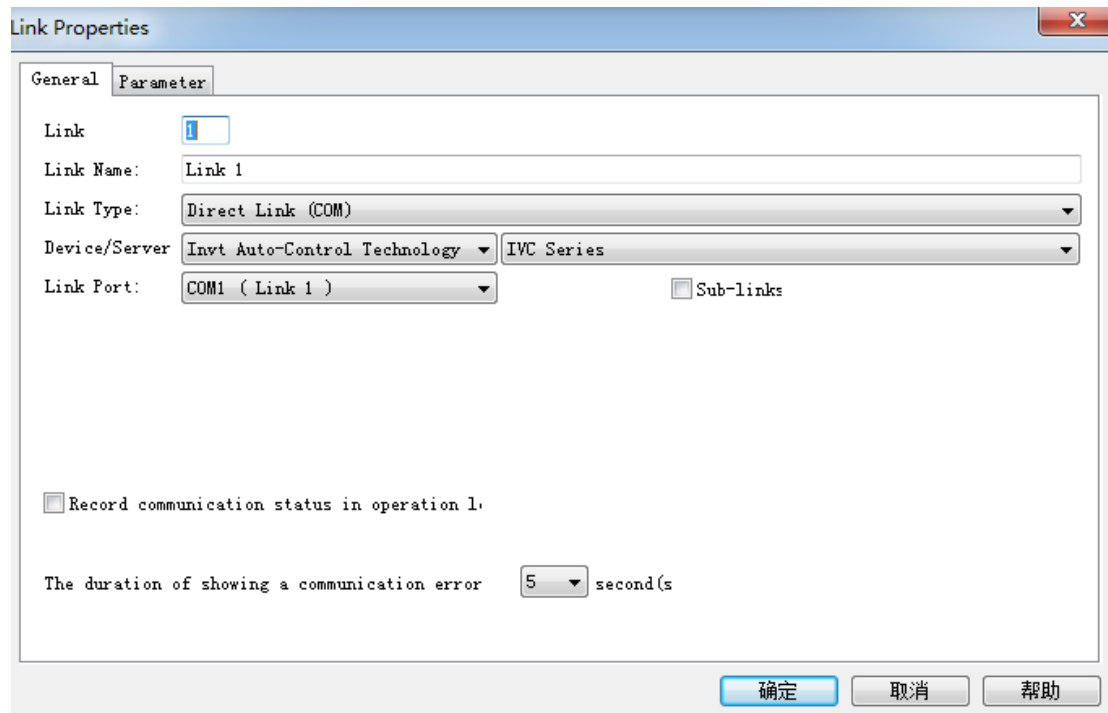
## 2.2 Configuration in servo

Make sure the parameters settings are same with the ones set in PLC port 1.

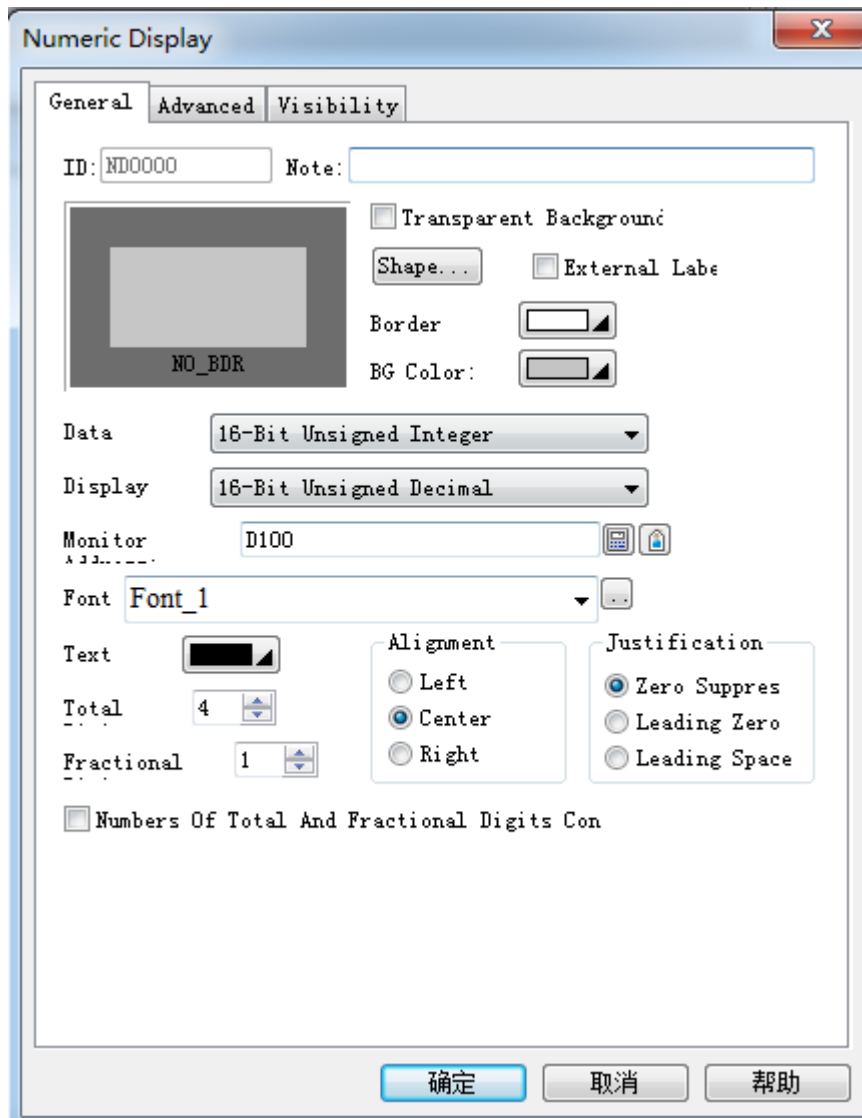
Parameter Setting											
P0	P1	P2	P3	P4	P5	P6	PtP0	PtP1	PtP2	P8	Pt
Function Code	Parameter Name				Current Value	*					
P4.01	485 Local communication address				3						
P4.02	Can baudrate selection				500K						
P4.03	Communication baudrate selection				19200						
P4.04	Communication parity mode				E 8 1						
P4.05	Can Local communication address				1						
P4.06	485 Local communication address				Auto clear fault						
P4.07	EtherCAT synchronisation period				1ms						
P4.08	EtherCAT synchronisation type				Free-run						
P4.09	EtherCAT fault detect time				100						
P4.10	Master Type				Bus input						
P4.11	Communication servo enabling				Disable						
P4.12	Bus Position command				0						

### 2.3 Configuration in HMI

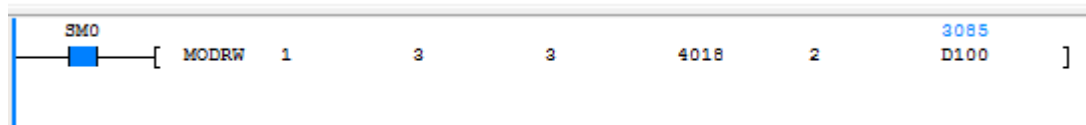
The settings should be same with PLC port 0.



Create object 'numeric display'



3 After communication setting, you can monitor the parameter in PLC and HMI



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