



Communication with ORMON CP1 Series



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1.General

This example introduces how to establish communication between VBOX and Ormon CP1 series PLC. The connection diagrams of the two communication methods, RS485 and RS232..

2.Operation Steps

2.1 RS485 serial port communication

2.1.1 Vbox setting:

Configuration>>Communication>>Add COM port>>Set the communication parameter as below:

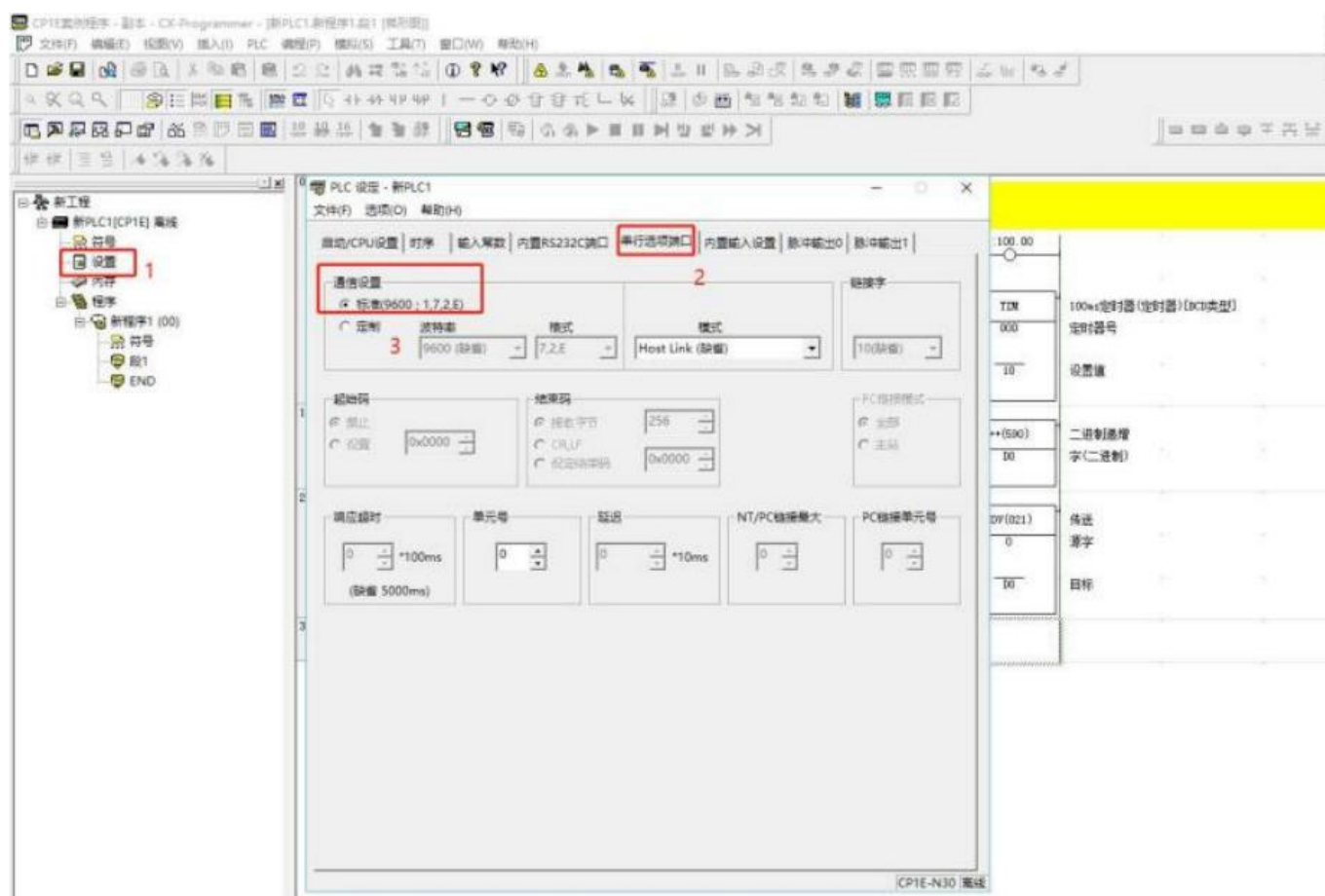
New Port

Port	COM1	Device Type	OMRON
Protocol	OMRON HOST...	Device Station No.	0
Device Station No.		Retry Count	2
Receive Timeout		Wait Timeout	300 ms
Length		Integration interval	0
Retry Timeout	0 ms	Delay Time	0 ms
Stop Bit	2	Baud Rate	9600
		Port	RS485
		Data Bit	7

Cancel OK

2.1.2 PLC setting

If want to change the communication parameters of the PLC, change the value of the communication parameter address of the plc.



2.1.3 Establish connection

The pin connections are as follows:



COM1 PIN Definition

PIN	Definition	PIN	Definition
1	RS422 TX+ (RS485+)	2	RS232 RXD
3	RS232 TXD	5	GND
6	RS422 TX- (RS485-)	8	RS422 RX-
9	RS422 RX+		

2.2 RS232 serial port communication

The following steps are same with Chapter 2.1. The main difference between RS232 and RS485 is the wiring method

2.2.1 VBOX setting:

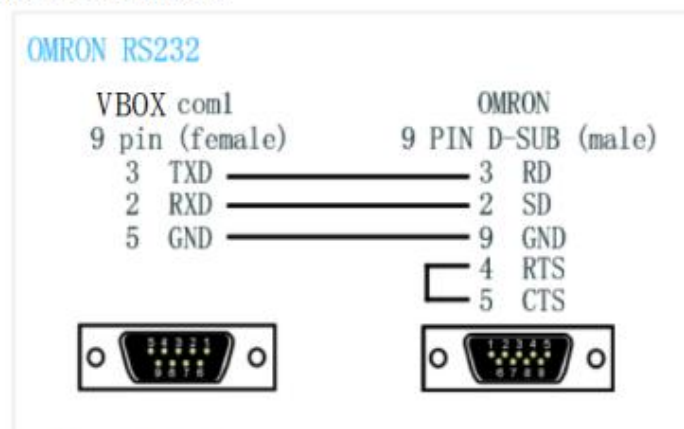
New Port

Port	COM1	Device Type	OMRON
Protocol	OMRON CV/CJ...	Device Station No.	0
Device Station No.	OMRON HOSTLINK	Retry Count	2
Receive Timeout	OMRON CS1(CP1E/CP1H)	Wait Timeout	300 ms
Length	OMRON CV/CJ1M/CS1H	Integration interval	0
Retry Timeout	OMRON E5CC	Delay Time	0 ms
Stop Bit	2	Baud Rate	9600
		Port	RS232
		Data Bit	7

Cancel OK

2.2.2 Establish connection:

The pin connections are as follows:



COM1 PIN Definition

PIN	Definition	PIN	Definition
1	RS422 TX+ (RS485+)	2	RS232 RXD
3	RS232 TXD	5	GND
6	RS422 TX- (RS485-)	8	RS422 RX-
9	RS422 RX+		