



Communication with Delta DVP Series



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1.General

This example introduces how to establish communication between Wecon PI series touch screen and Delta DVP series PLC.

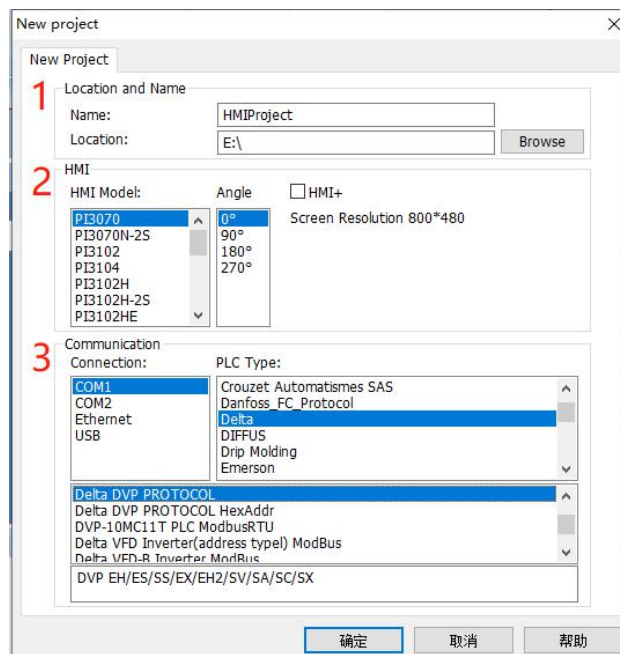
The connection diagrams of the two communication methods, serial port RS485 and circular programming port RS232

2.Operation Steps

2.1 RS485 serial port communication

2.1.1 Create a new project

Open PStudio Software>>New Project, as shown in the figure below, set the touch screen project model and communication device type in sequence

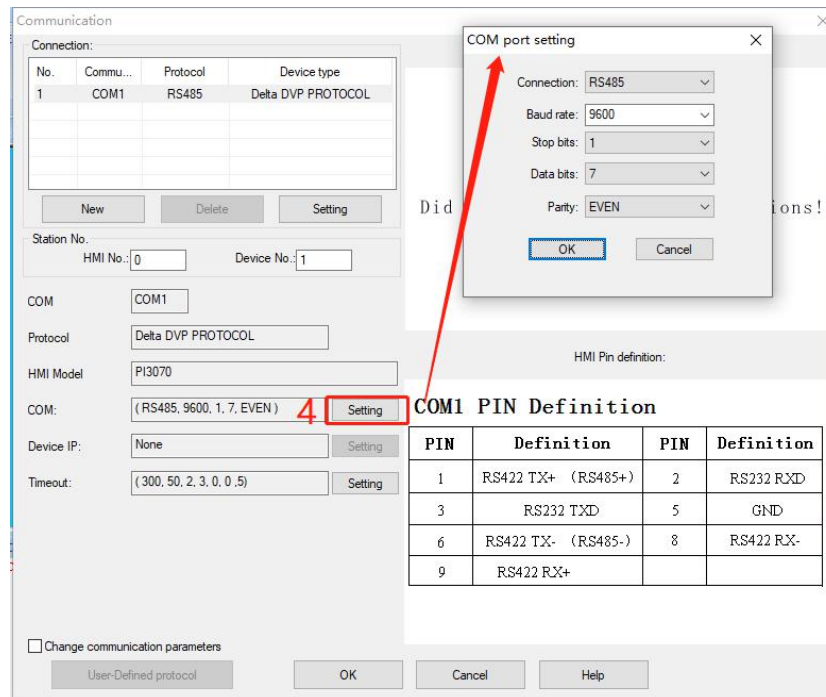


2.1.2 Communication settings

PIStudio:

Menu bar:project>>communication>>COM port settings, as shown below

Set the Connection, stop bits, data bits, parity and baud rate respectively to the default values of RS485, 1, 7 and EVEN(Even parity).



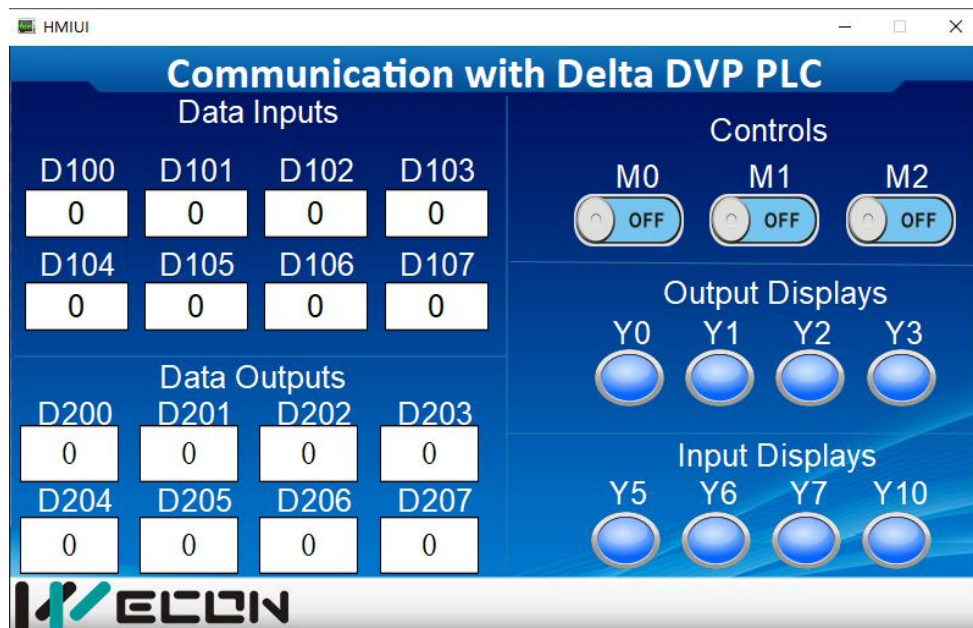
ISPSOft 3.07:

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

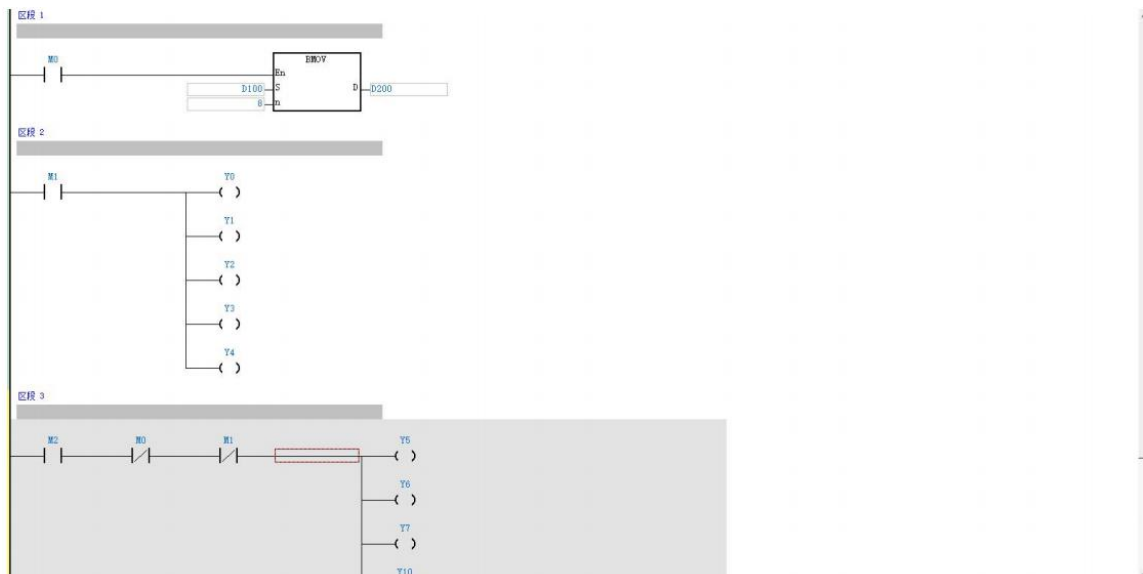
M1120,M1136,M1138,M1139,M1143,D1036,D1039,D1120

2.1.3 Project program

The sample project in this article is in the attachment, and the project content is as follows:
HMI



PLC



2.1.4 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+		

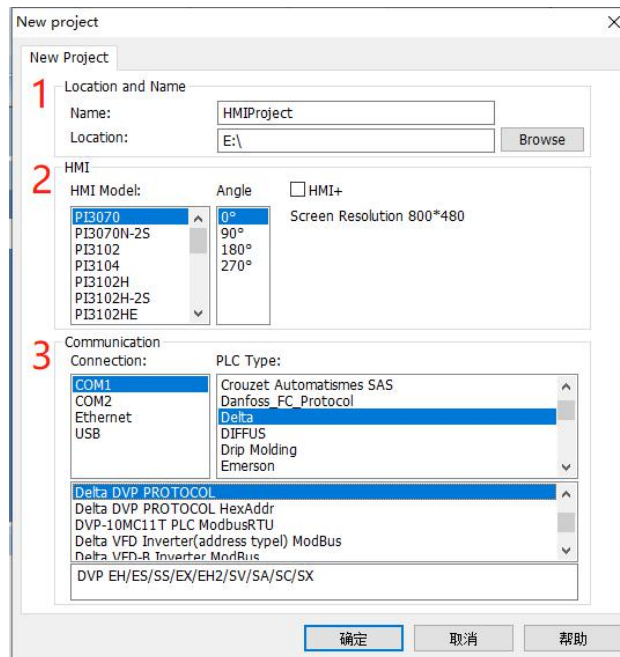
2.2 RS232 programming port communication

The following steps are same with Chapter 2.1.

The main difference between RS232 and RS485 is the wiring method.

2.2.1 Create a new project

Open PIStudio Software>>New Project, as shown in the figure below, set the touch screen project model and communication device type in sequence

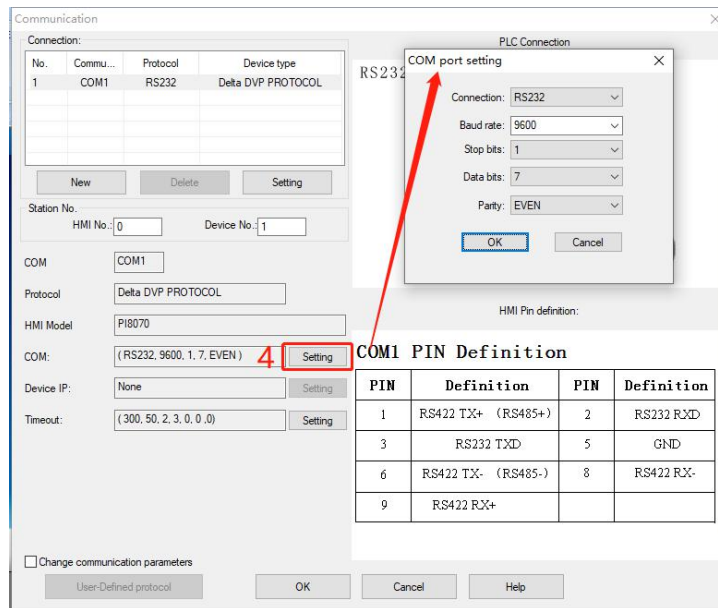


2.2.2 Communication settings

PIStudio:

Menu bar:project>>communication>>COM port settings, as shown below

Set the Connection, stop bits, data bits, parity and baud rate respectively to the default values of RS232, 1, 7 and EVEN(Even parity).



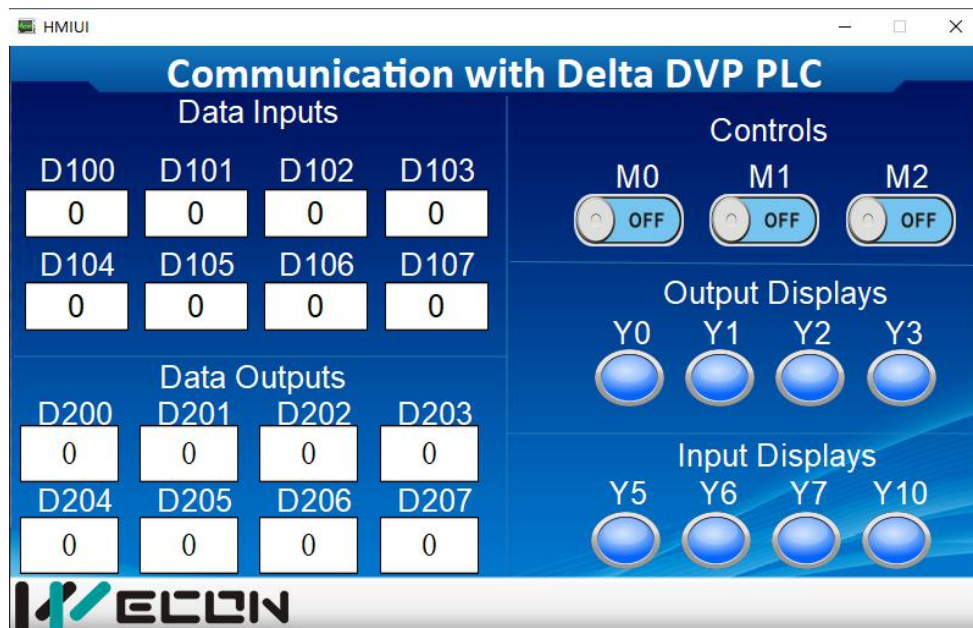
ISPSOft 3.07:

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

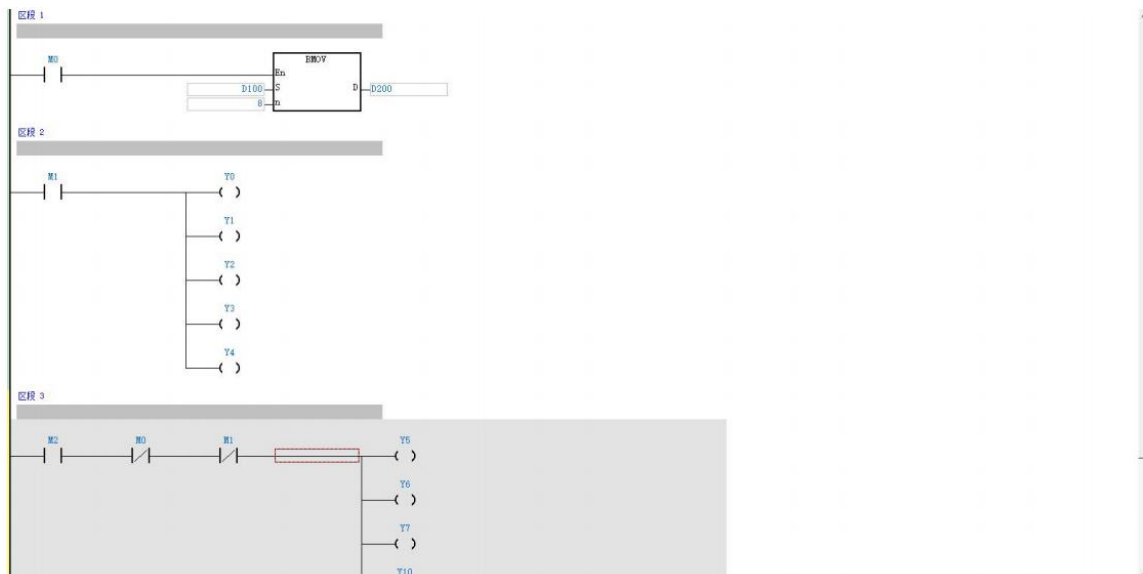
M1120,M1136,M1138,M1139,M1143,D1036,D1039,D1120

2.2.3 Project program

The sample project in this article is in the attachment, and the project content is as follows:
HMI



PLC



2.2.4 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+		