

WEINTEK LABS., INC.

Siemens PPI MPI Pass-Through

Demo Project

Contents

- 1. Overview and Operation 1
- 2. Setting up the Screen 2
- 3. Addresses 4

1. Overview and Operation

Overview

Pass-Through function allows running PLC software on PC to control the PLC through HMI which works as a converter in this case. This demo project explains the basic settings of Siemens MPI/PPI.

Operation

Please download this project to HMI, select the Pass-Through mode from PPI or MPI, and then enable Pass-Through in Utility Manager. The PLC software on PC can then be used to connect the PLC. To use EasyAccess 2.0, tap the [EasyAccess 2.0] button in the lower-right corner of the window, the EasyAccess 2.0 settings window will open.

Note: In this demo project, Siemens PPI is used, to change it to Siemens MPI, launch EasyBuilder, open [Edit] » [System Parameter Settings] to change the PLC driver to Siemens S7-300 MPI.

Siemens PPI/MPI Pass-through

☒ PPI
 ☐ MPI
 ☐ Disable Pass-through

☒ IP limited (only the designated client IP can connect to the PLC)

Connecting Status: Not running

Execution Status: Normal Successfully executed. Clear

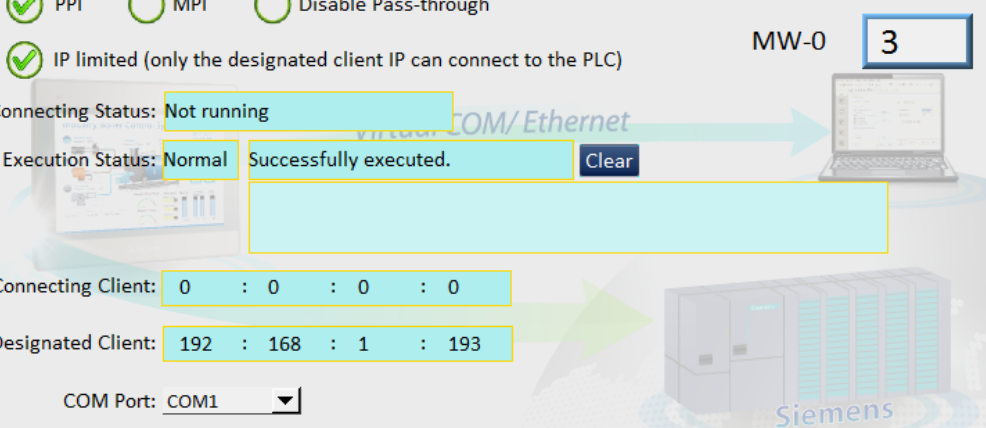
Connecting Client: 0 : 0 : 0 : 0


Designated Client: 192 : 168 : 1 : 193

COM Port: COM1

PLC St. 2

MW-0 3

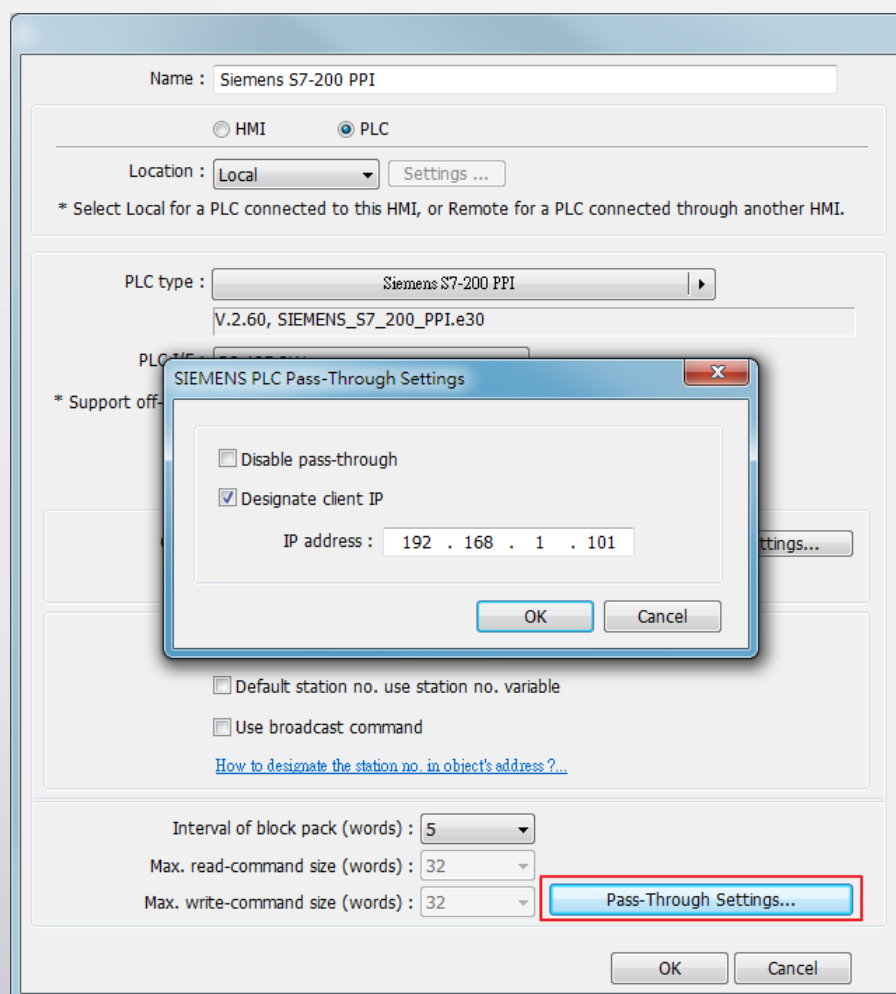



EasyAccess2.0

2. Setting up the Screen

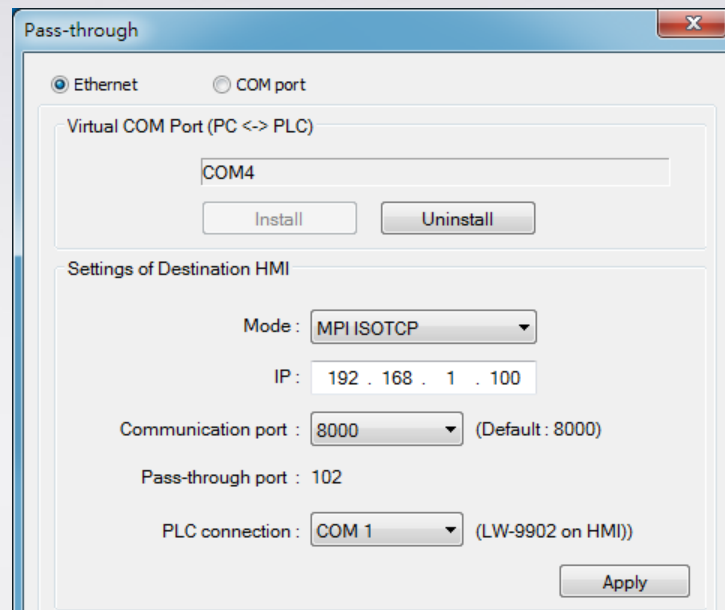
Step 1. Launch EasyBuilder and go to [Edit] » [System Parameter Settings] » [Device List] to add Siemens PPI or MPI driver.

Step 2. In the PLC settings window, click [Pass-Through Settings] button to open SIEMENS PLC Pass-Through Settings window and fill in the IP address of the PC.



Step 3. Download the project to HMI.

Step 4. On PC open [Utility Manager] » [Analysis & Testing] » [Pass-through] and set the parameters. (If you use Siemens S7-200 PPI, you may skip this step.)



Step 5. When finished, PLC software on PC can control PLC.

Note: For more details on PLC parameter settings related to Pass-Through function, see EasyBuilder User Manual [Chapter 29 Pass-Through](#).

3. Addresses

The addresses of key objects used in this demonstration are listed below.

Object	Address	Object ID	Description
Window 10			
Combo Button	LW-10853, LW-10850, LB-0, LB-1, LB-2	CB_0	Enables Pass-Through, sets Pass-Through mode to PPI, and then changes the status of the corresponding Bit Lamp.
Combo Button	LW-10853, LW-10850, LB-0, LB-1, LB-2	CB_1	Enables Pass-Through, sets Pass-Through mode to MPI, and then changes the status of the corresponding Bit Lamp.
Combo Button	LW-10853, LW-10850, LB-0, LB-1, LB-2	CB_2	Disables Pass-Through, and then changes the status of the corresponding Bit Lamp.
Bit Lamp	LB-0	BL_0	Shows the Pass-Through status of PPI.
Bit Lamp	LB-1	BL_1	Shows the Pass-Through status of MPI.
Bit Lamp	LB-2	BL_2	Shows that Pass-Through is disabled.
Word Lamp	LW_10862	WL_0	Shows Siemens Pass-Through connection status.
Word Lamp	LW_10863	WL_1	Shows Siemens Pass-Through execution status.
Word Lamp	LW_10864	WL_2	Shows Siemens Pass-Through last error code.
Word Lamp	LW_10864	WL_3	Shows Siemens Pass-Through last error code.
Word Lamp	LW_10850	WL_4	Shows whether IP is limited (only the designated client IP can connect to the PLC)

Set Word	LW_10850	SW_1	Determines whether IP is limited (only the designated client IP can connect to the PLC)
Set Word	LW_10864	SW_2	Clears last error code.
Numeric	LW-10854	NE_2	IP0 of connecting client (IP address = IP0:IP1:IP2:IP3)
Numeric	LW-10855	NE_7	IP1 of connecting client.
Numeric	LW-10856	NE_8	IP2 of connecting client.
Numeric	LW-10857	NE_9	IP3 of connecting client.
Numeric	LW-10858	NE_3	IP0 of designated client.
Numeric	LW-10859	NE_4	IP1 of designated client.
Numeric	LW-10860	NE_5	IP2 of designated client.
Numeric	LW-10861	NE_6	IP3 of designated client.
Option List	LW-10851	OL_0	Destination COM Port.
Numeric	LW-10852	NE_0	Destination PLC Station Number.
Numeric	MW-0	NE_1	Communicates with PLC.
Function Key		FK_0	Opens EasyAccess 2.0 settings window.