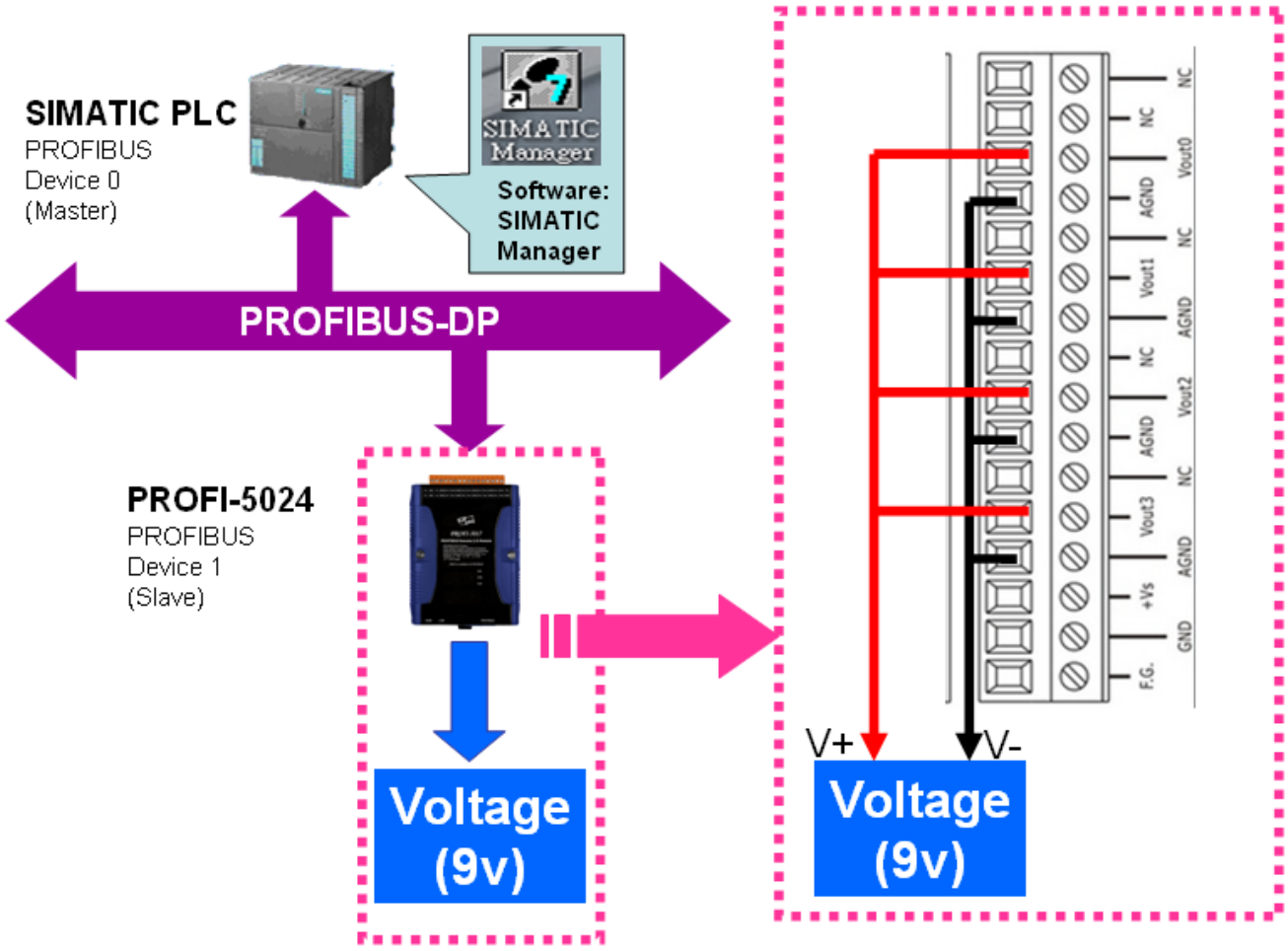
How to send data at SIMATIC STEP 7 ?

Voltage Output : Example 1

Current Output : Example 2

Example 1 : PLC sends voltage(9v) from PROFI-5024

1. Architecture



"Follow the below steps to establish the system!"

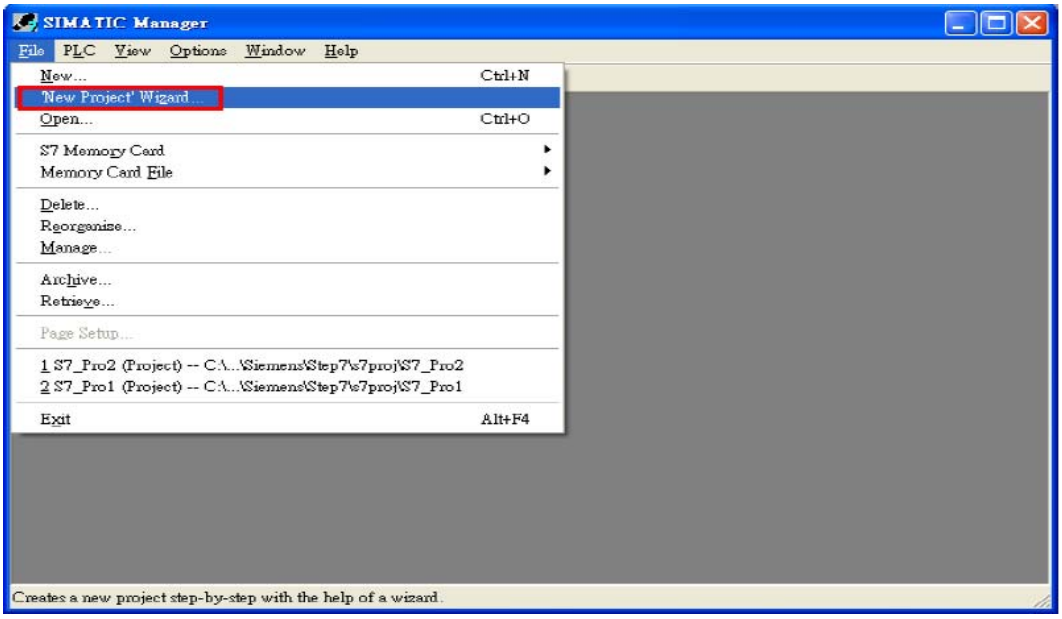
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2.SIMATIC STEP7 Configuration:

Step 1: Double Click “SIMATIC Manager” icon to open “SIMATIC Manager”

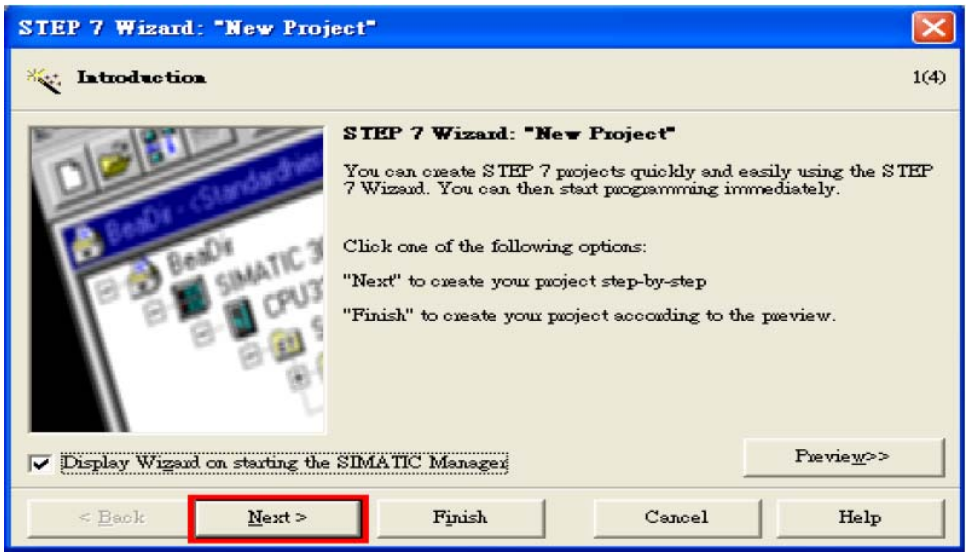


Step 2: Open “ New Project Wizard “



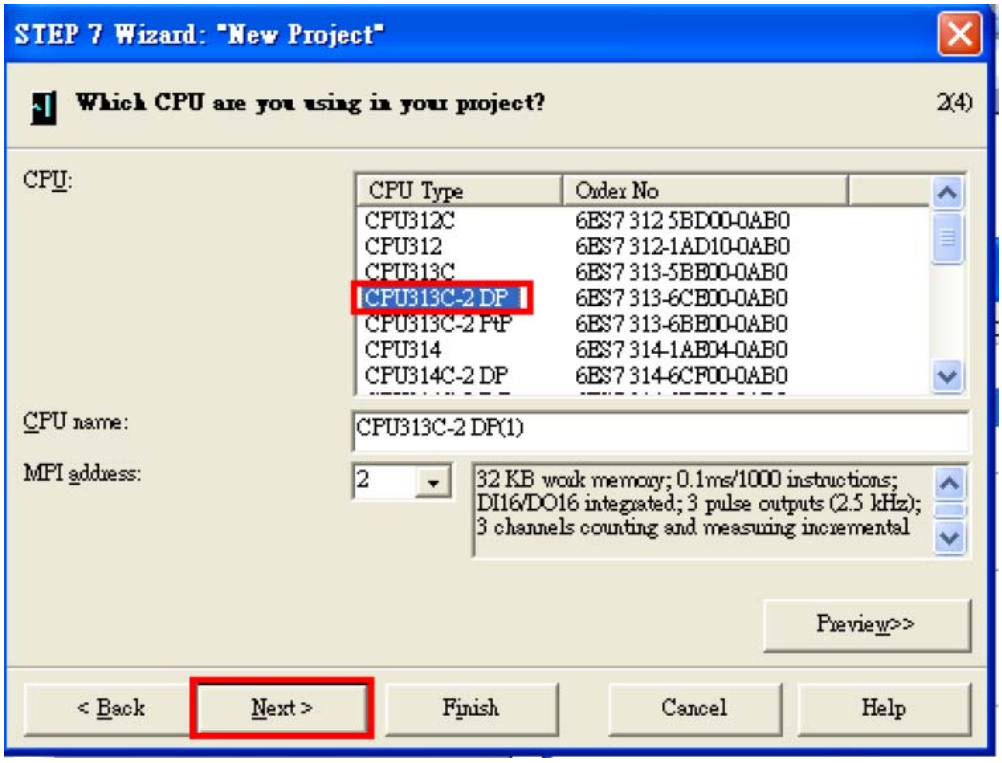
Step 3: Set up Project

a. Click”Next”

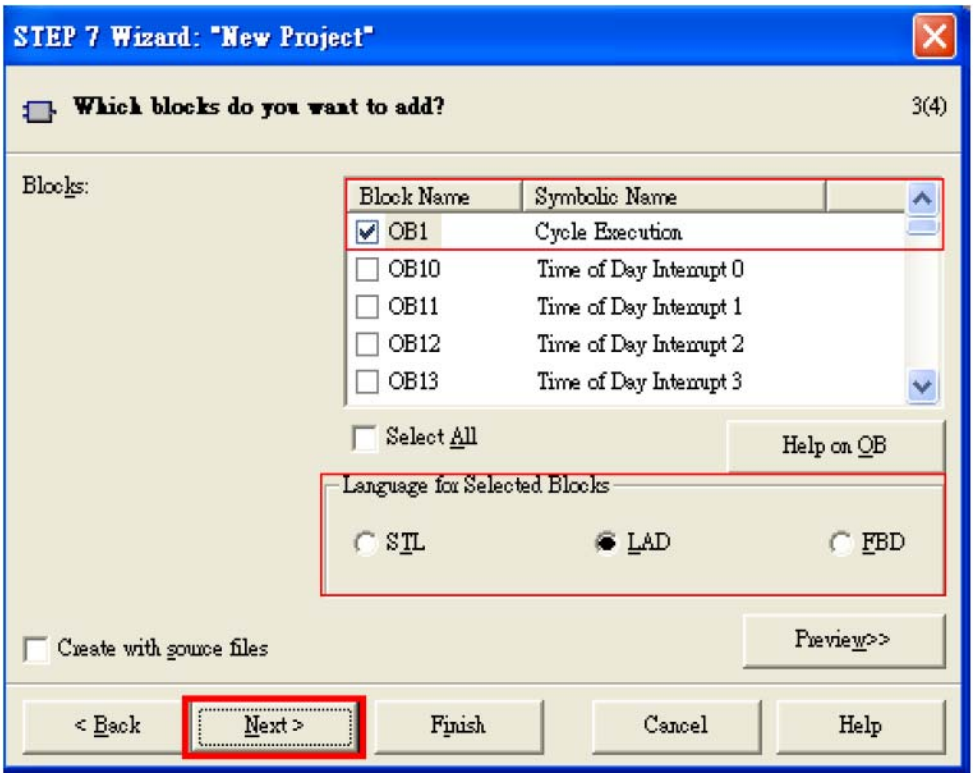


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b. Select CPU type then click ”Next”

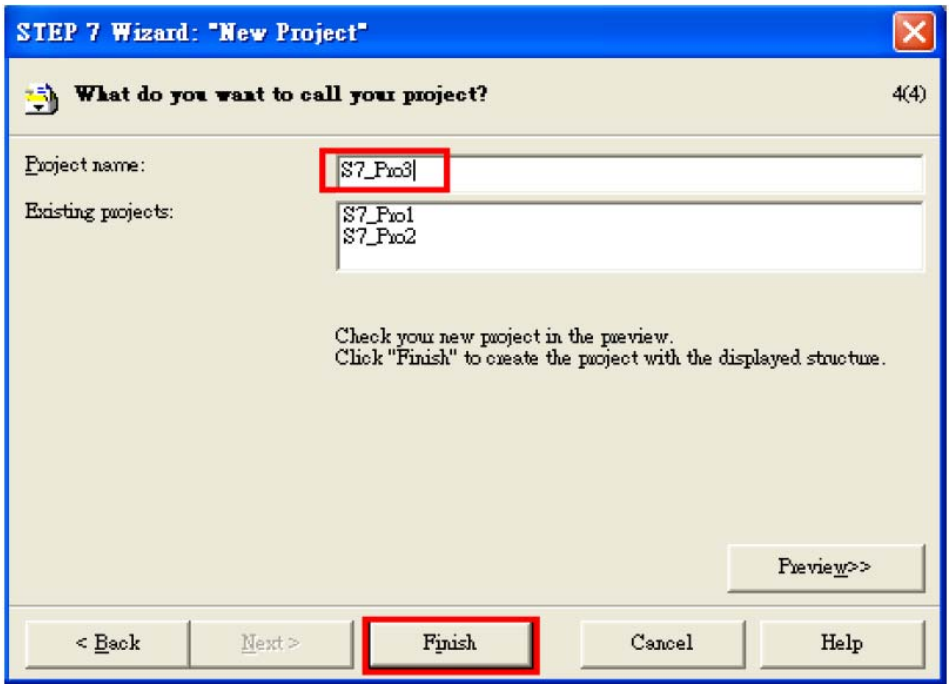


c. Select Blocks and Language for Selected Blocks then click ”Next”

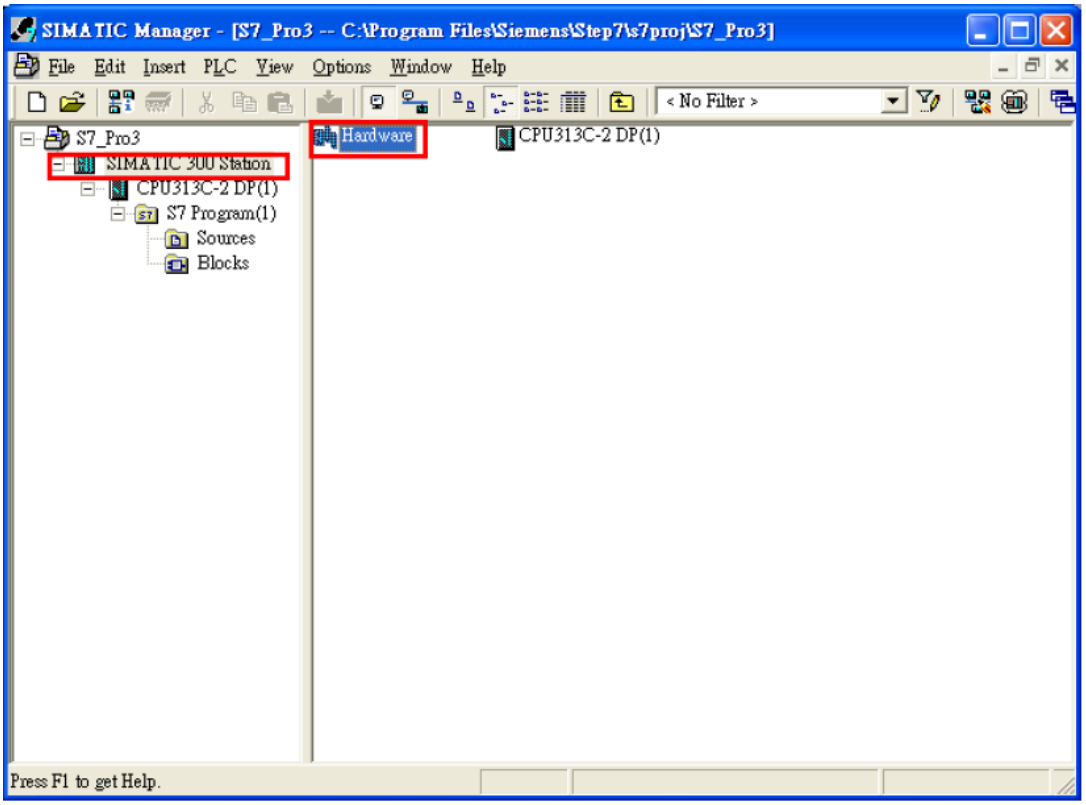


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d. Set project name then click”Finish”



Step 4: Double click “Hardware” to open “HW Config”

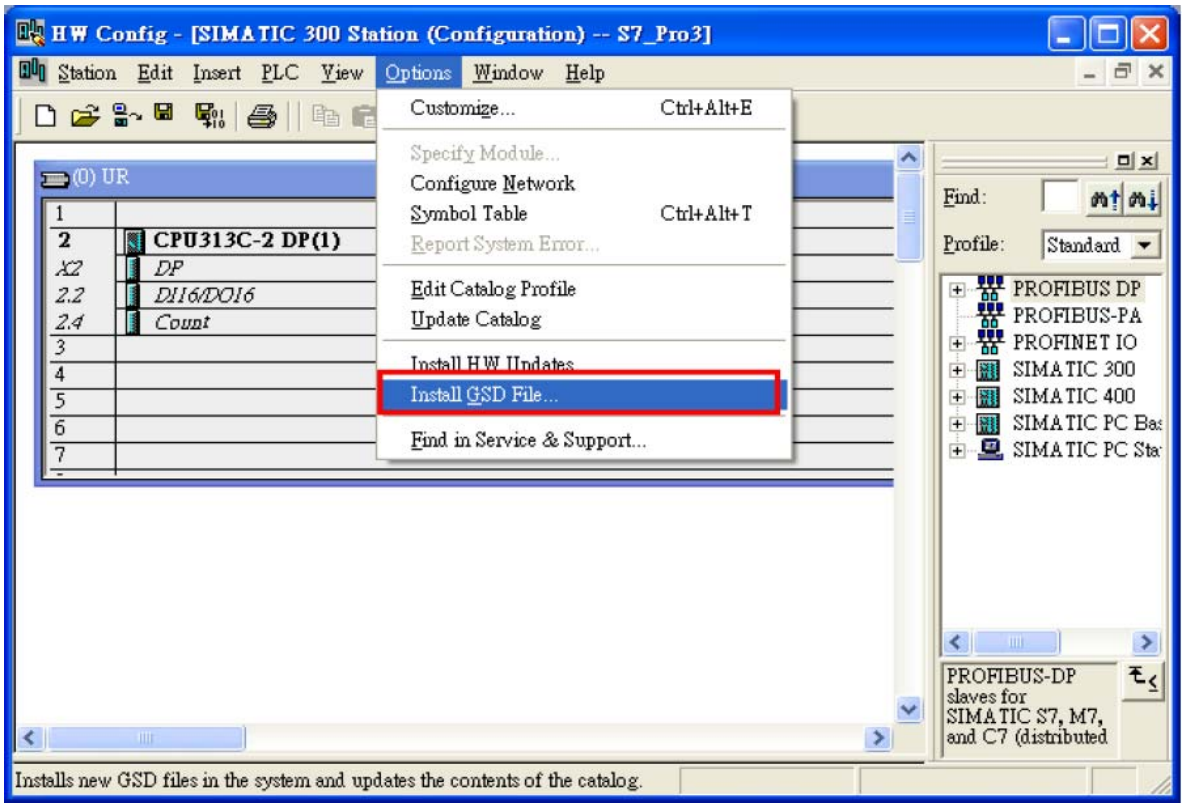


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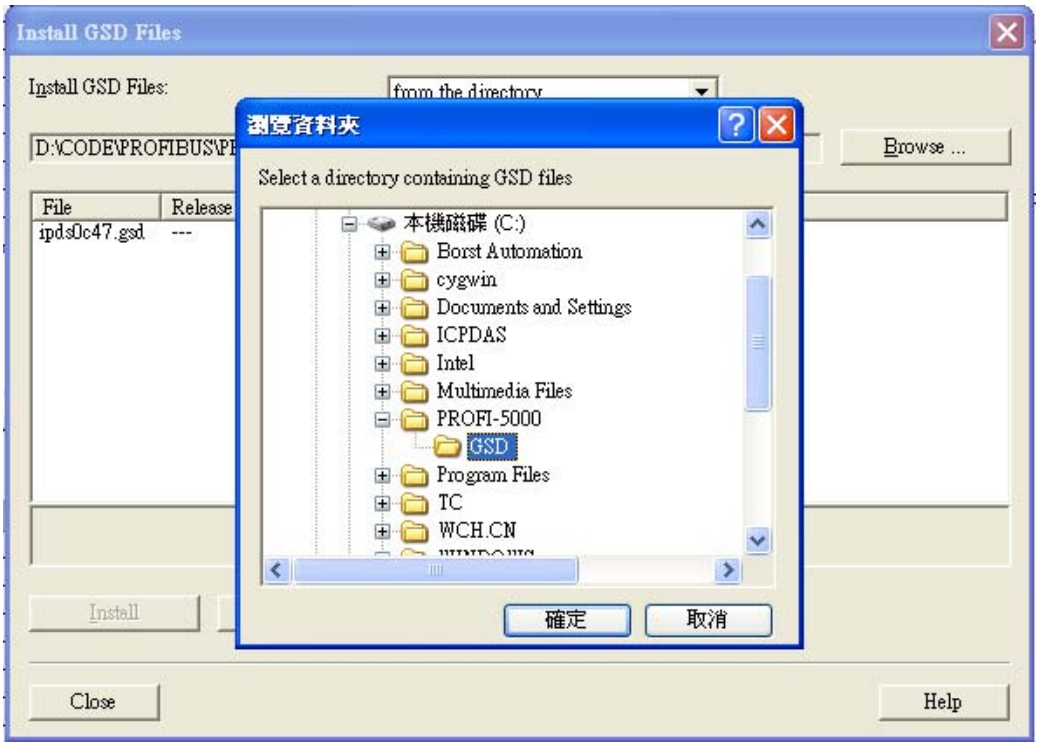
Step 5: Install PROFI-5000 GSD File

ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/remote%20io/profi-5000/gsd/

a. Click “Install GSD File”

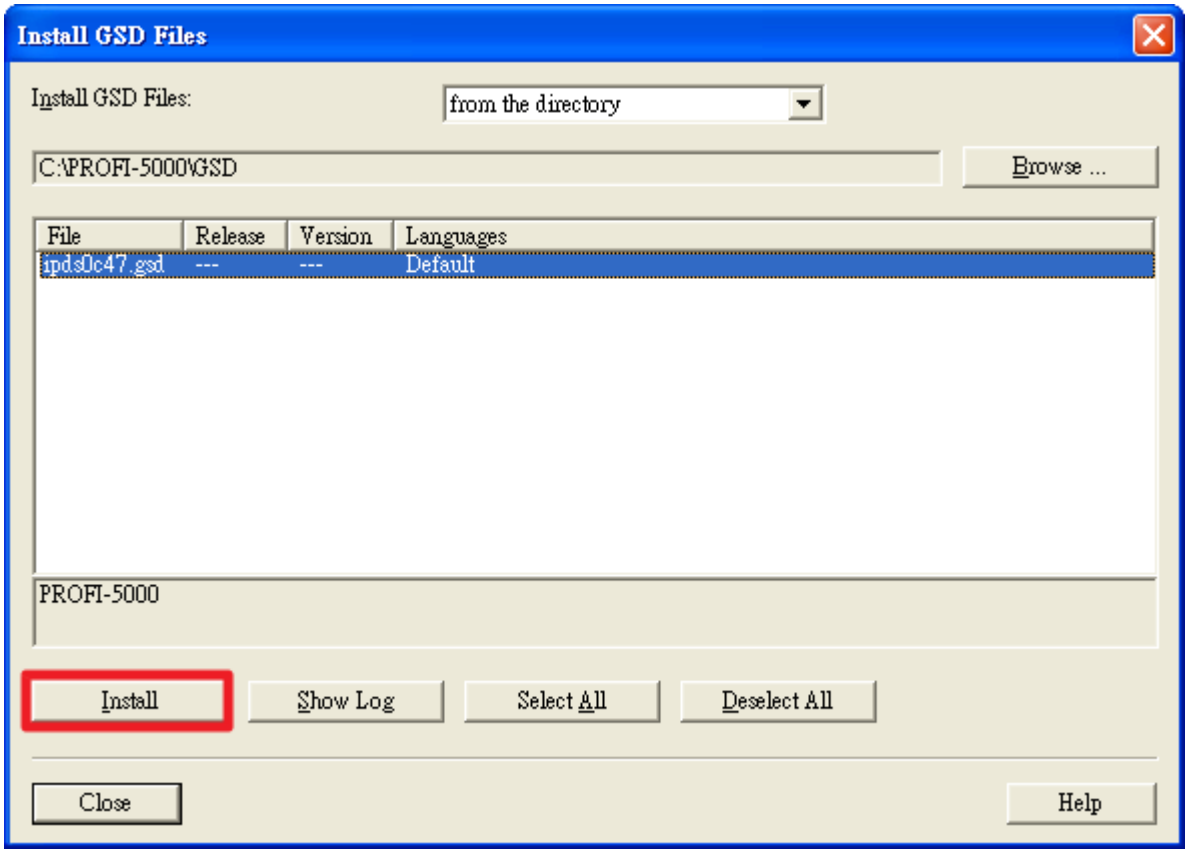


b. Select the directory of PROFI-5017’s GSD file(ipds0c47.gsd) and click “OK”

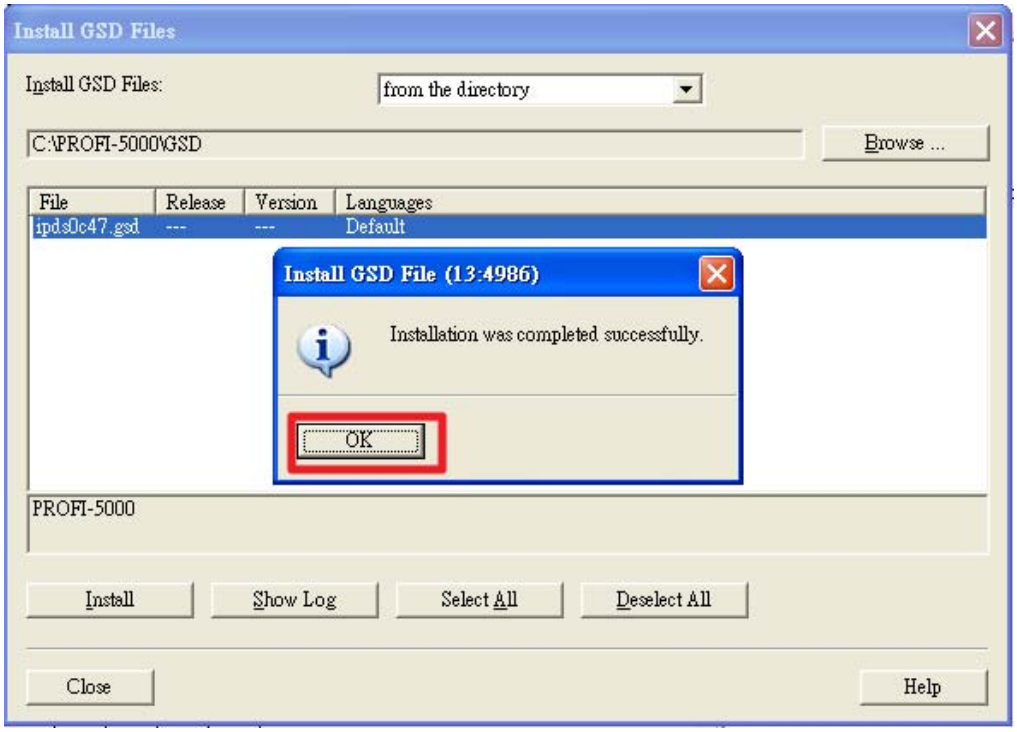


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c. Click “Install”



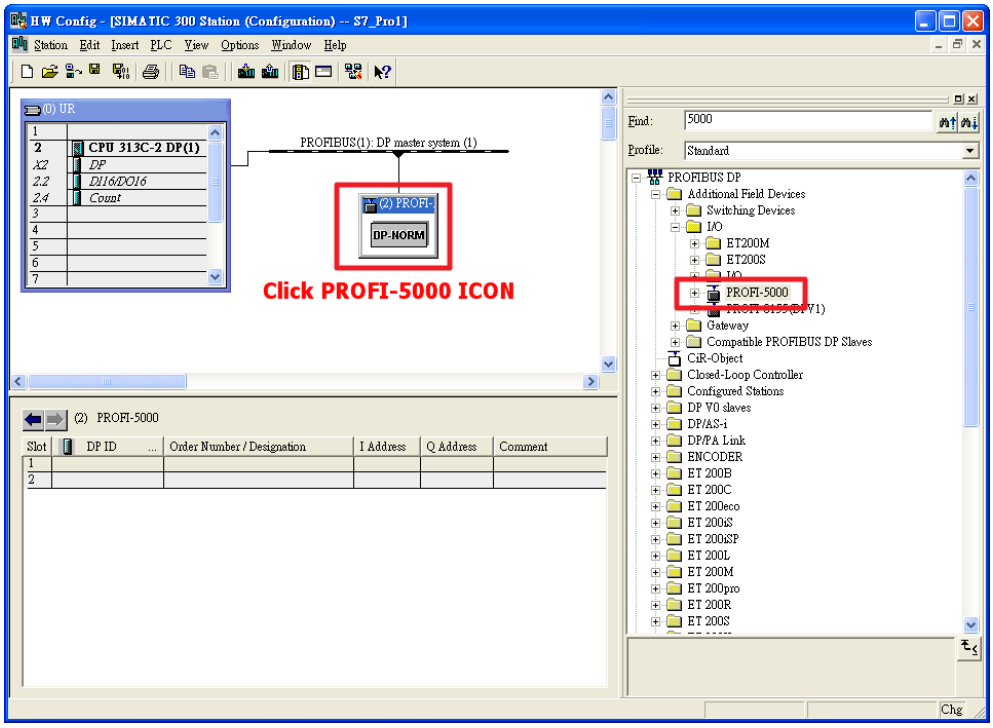
d. Click “OK”



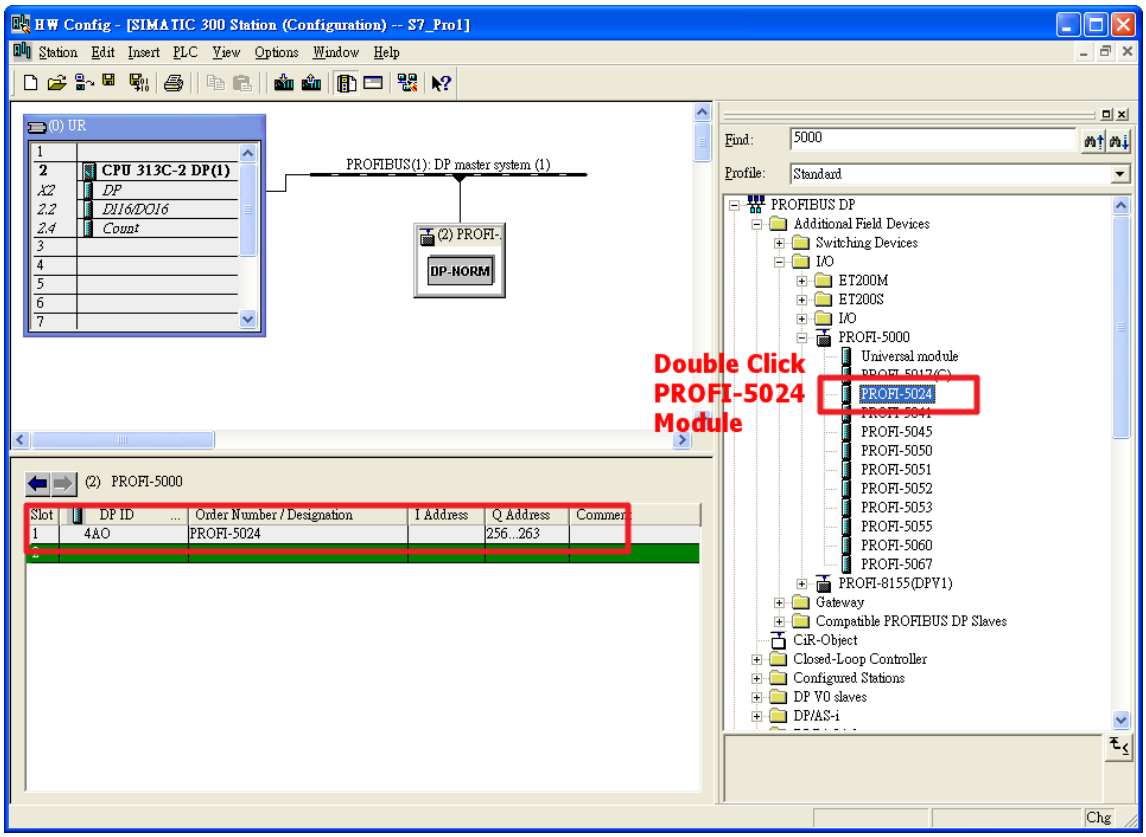
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Step 6: Setup the PROFI-5024 module

a. Select PROFI-5000 module



b. Add a “PROFI-5024 module”



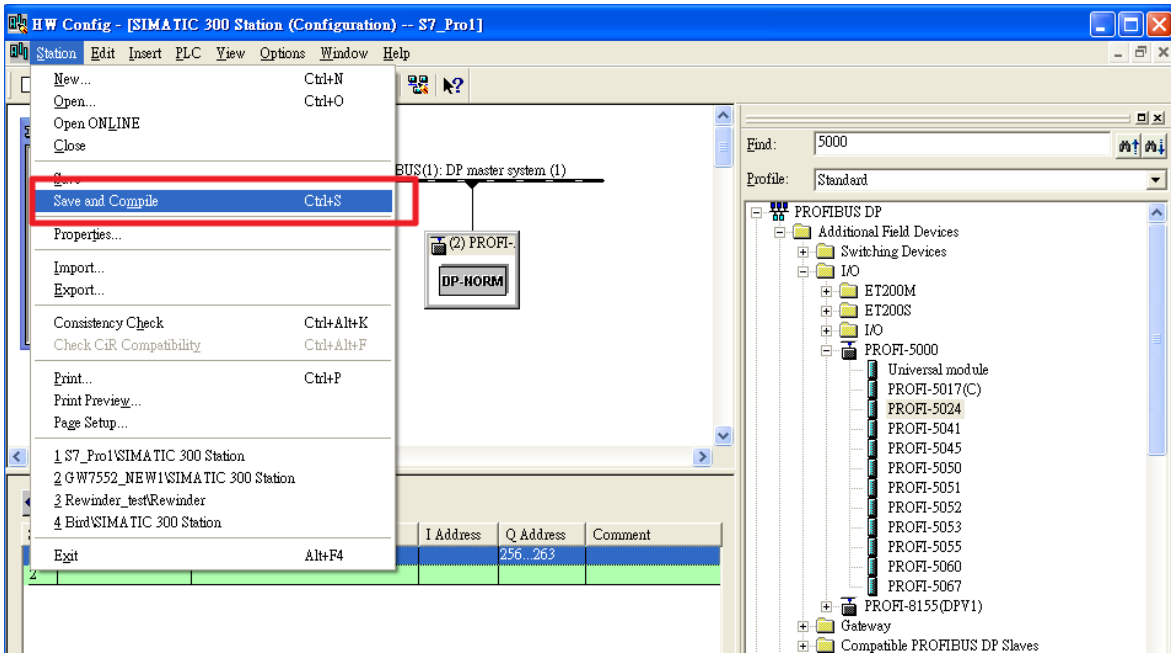
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Step 7: Setup the parameters of the PROFI-5024

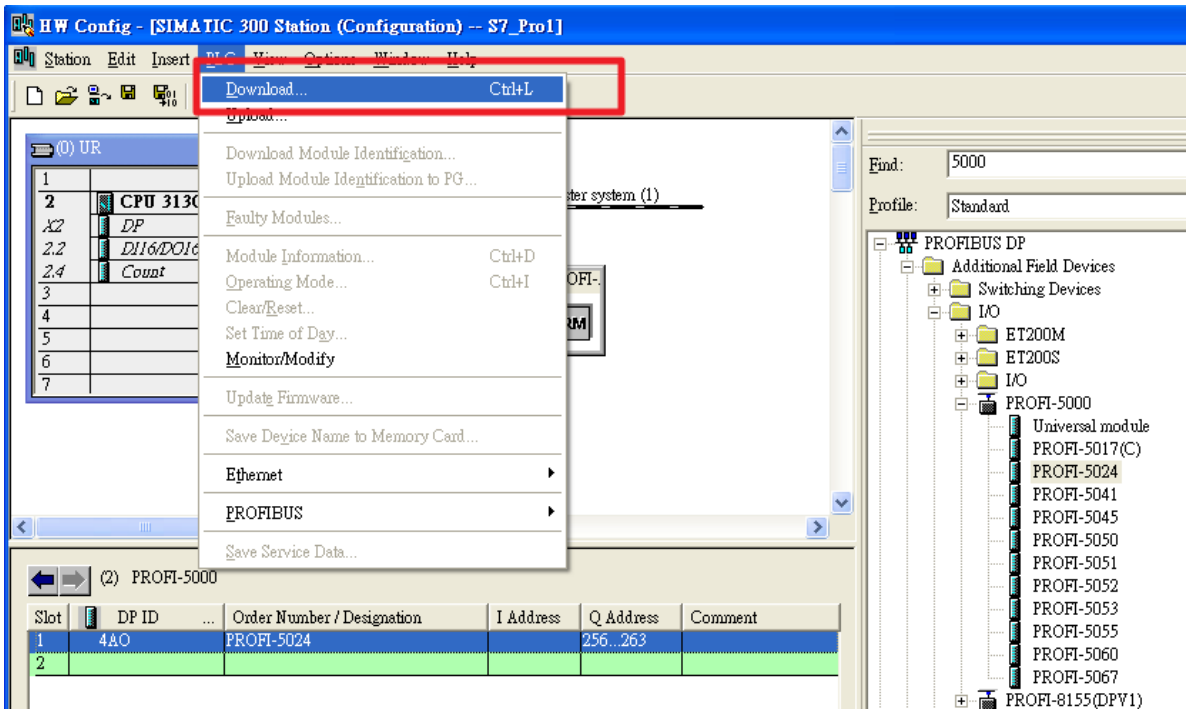
Use the default setting

Step 8: Download the HW settings into SIMATIC PLC

a. Save and Compile



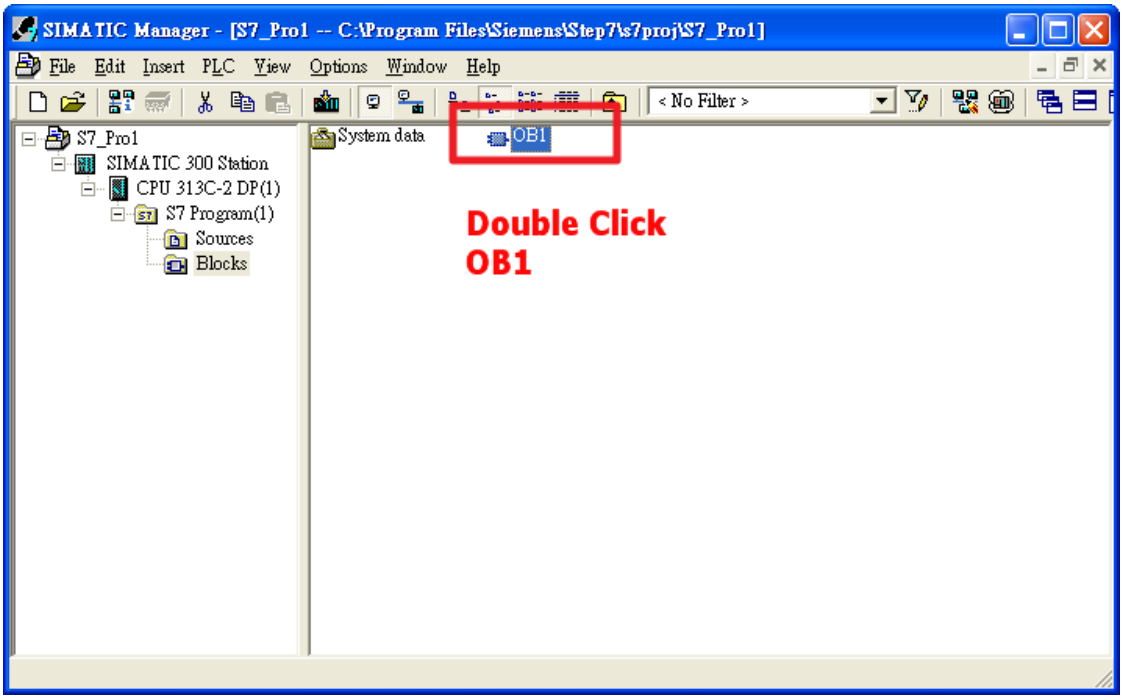
b. HW settings into SIMATIC PLC



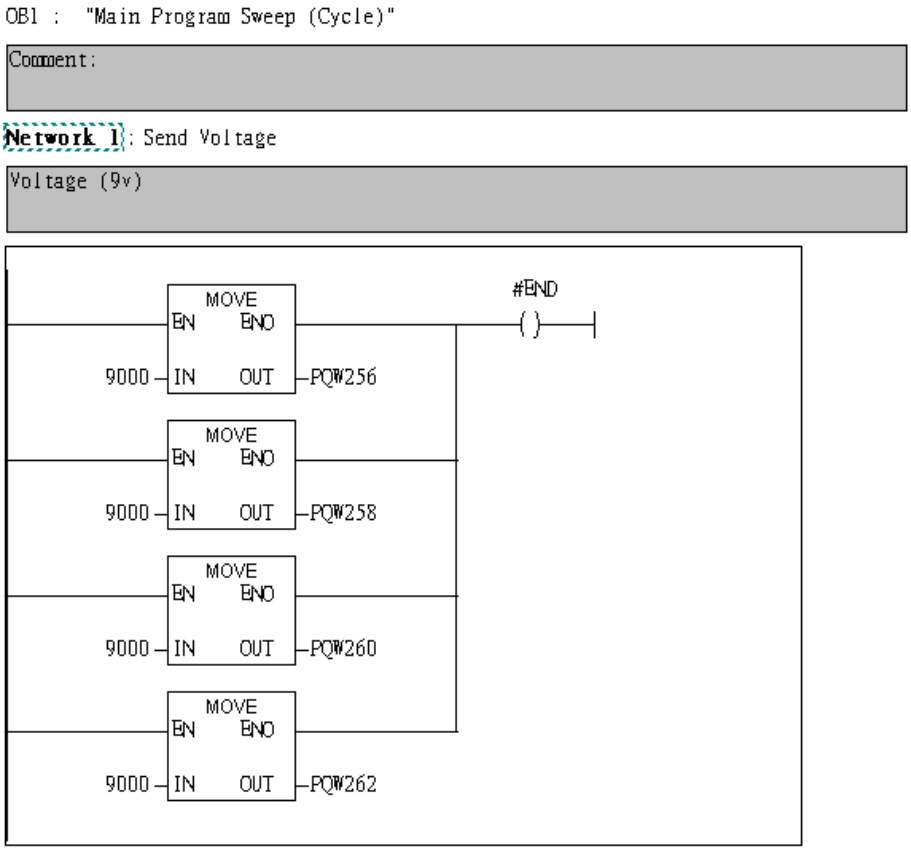
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Step 9: Edit OB1

a. Double click “OB1”

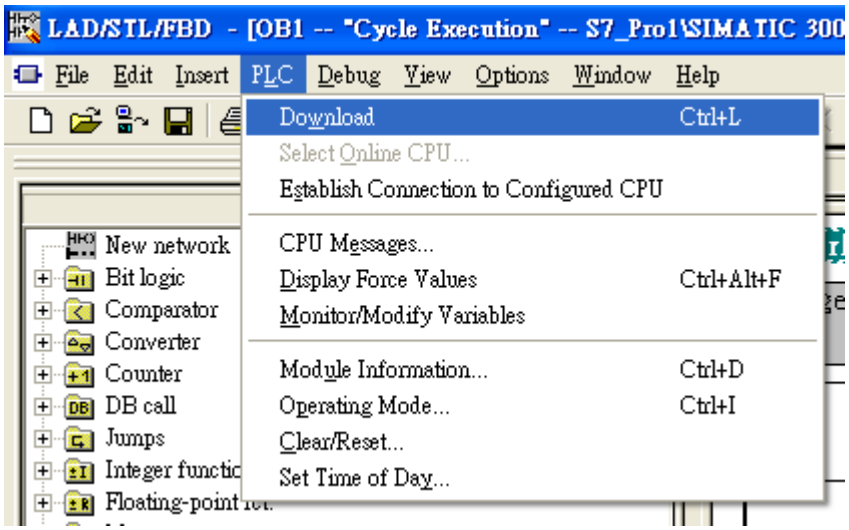


b. Program



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Step 10: Download the settings into SIMATIC PLC

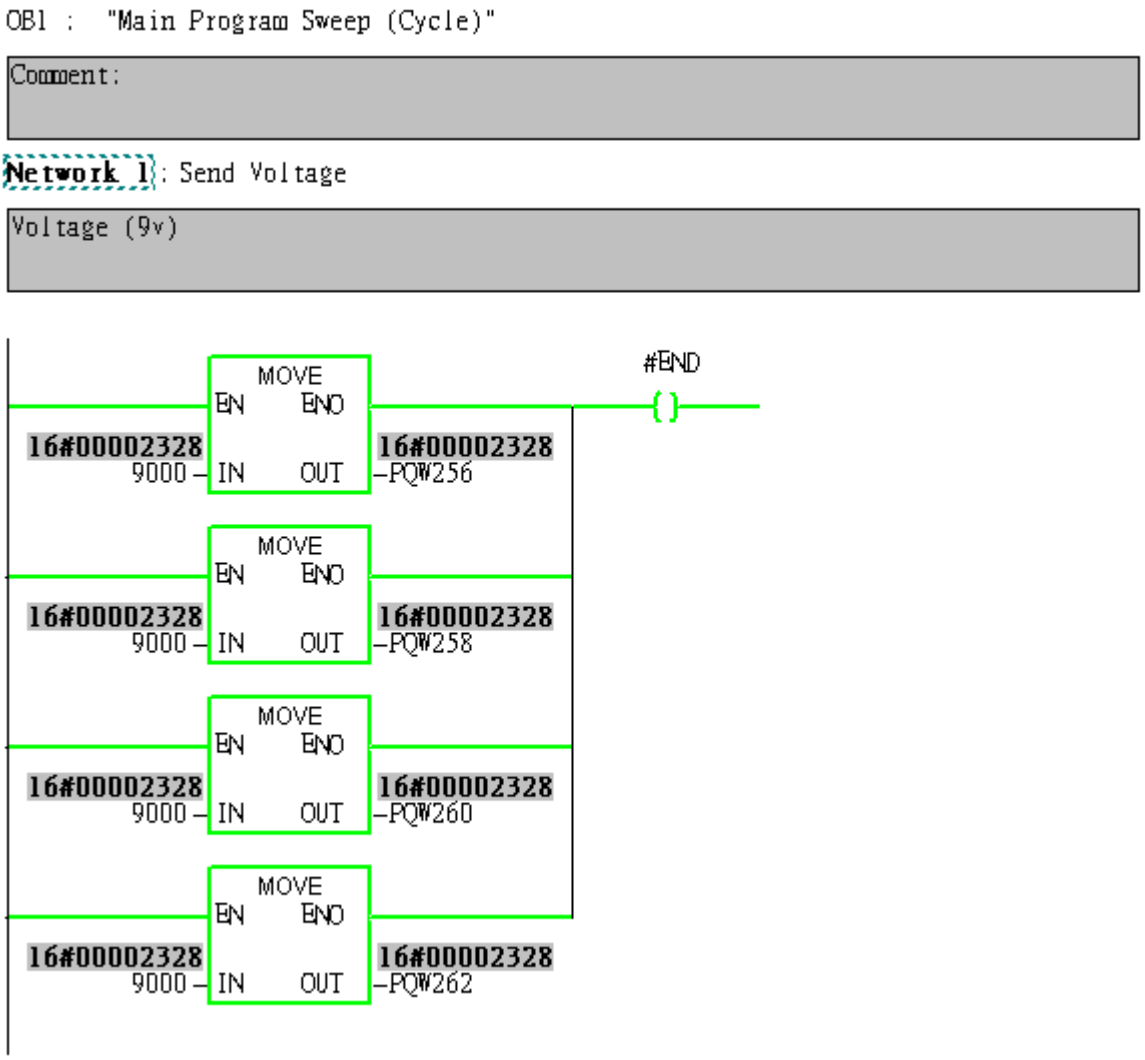


Step 11: Make sure the RUN LED of the PROFI-5024 is ON.



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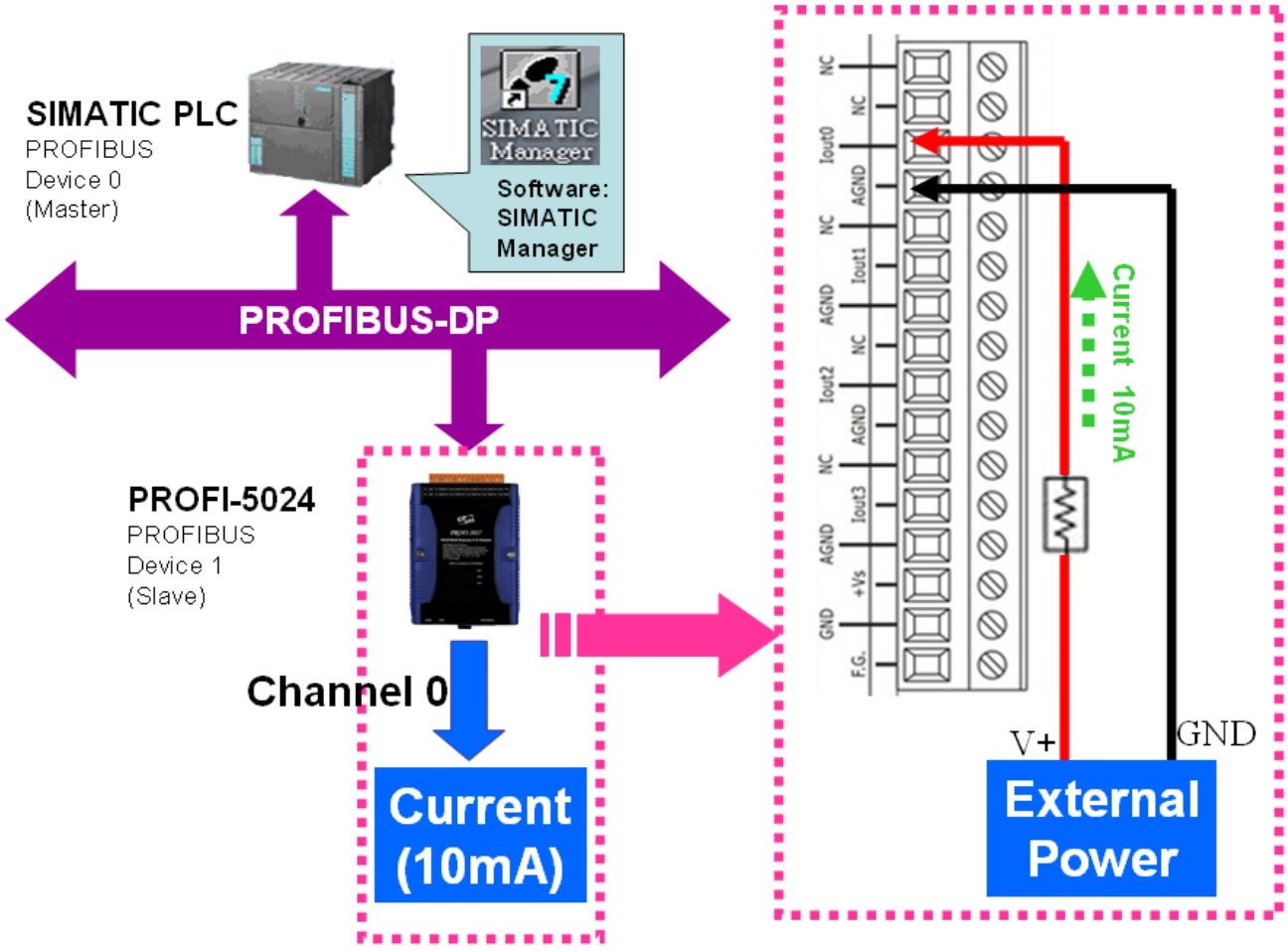
Now the setting procedure has been finished and the user can send voltage of channel 0 ~ channel 3 at address PQW256 ~ PQW 262



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Example 2:PLC sends current(10mA) of channel 0 from PROFI-5024

1. Architecture



"Follow the below steps to establish the system!"

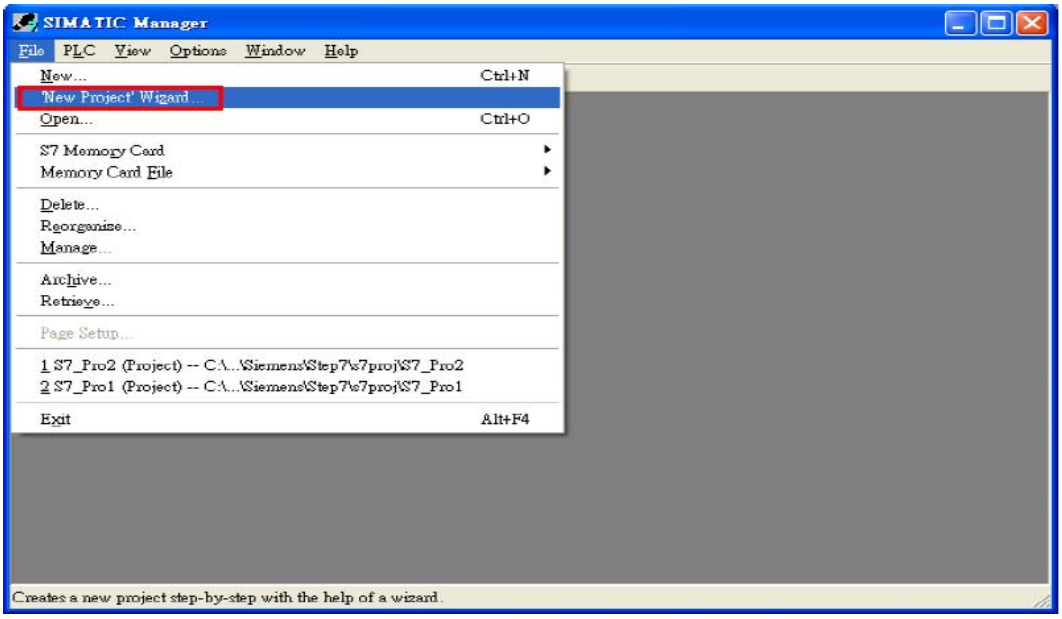
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2.SIMATIC STEP7 Configuration:

Step 1: Double Click “SIMATIC Manager” icon to open “SIMATIC Manager”

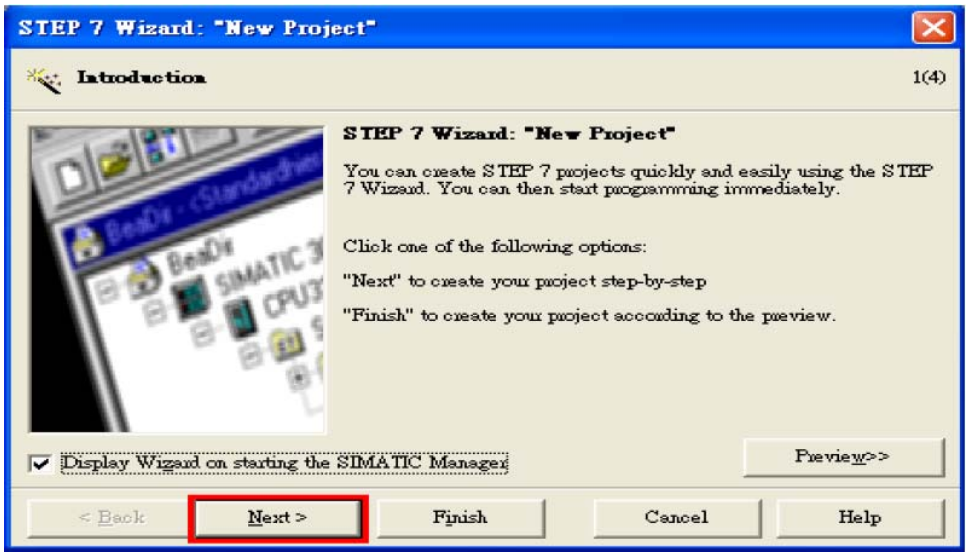


Step 2: Open “ New Project Wizard “



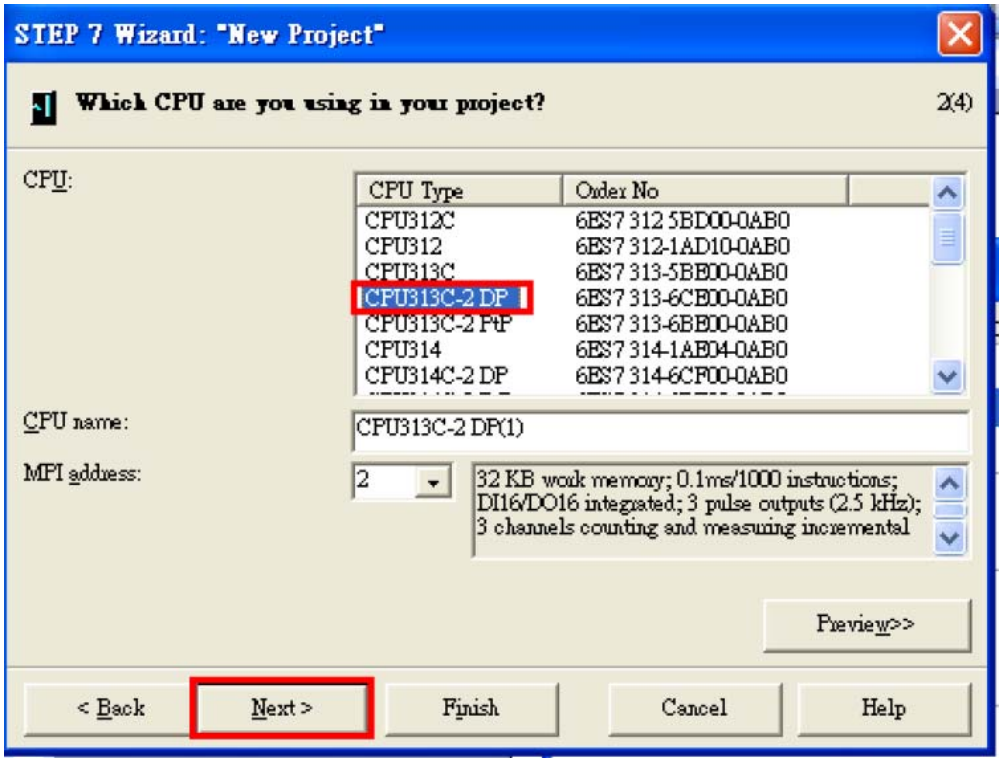
Step 3: Set up Project

a. Click”Next”

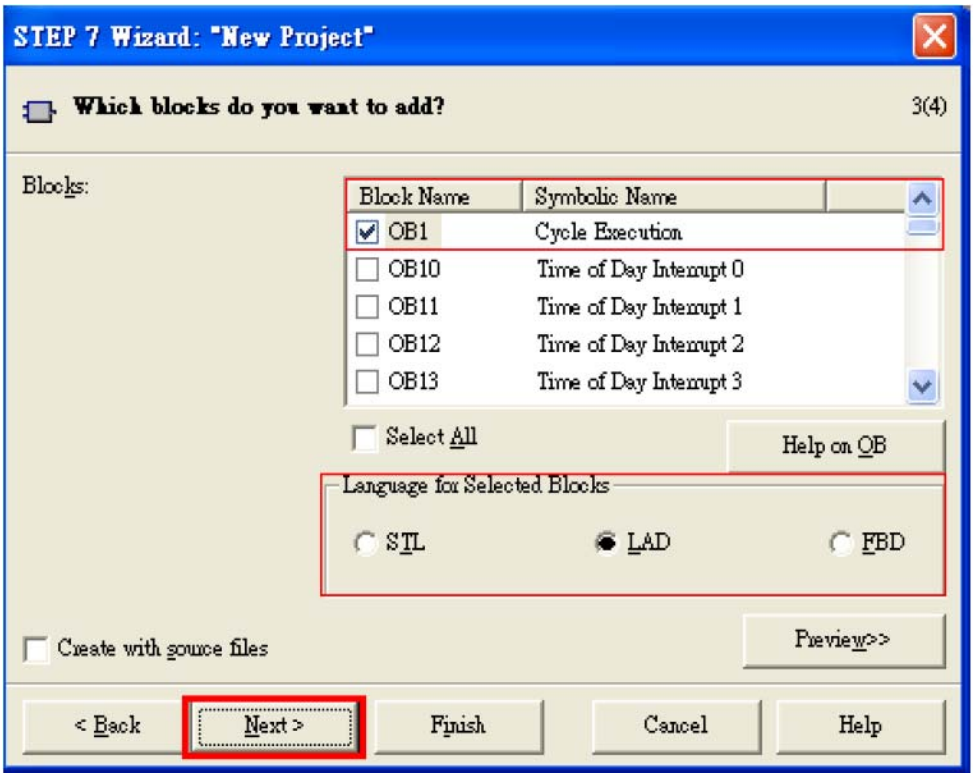


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b. Select CPU type then click ”Next”

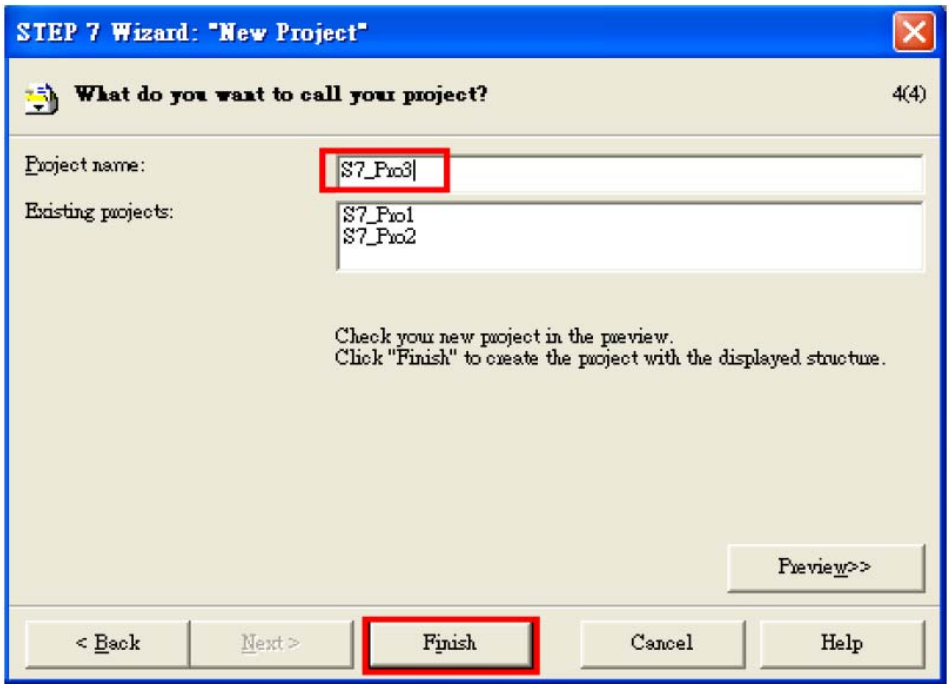


c. Select Blocks and Language for Selected Blocks then click ”Next”

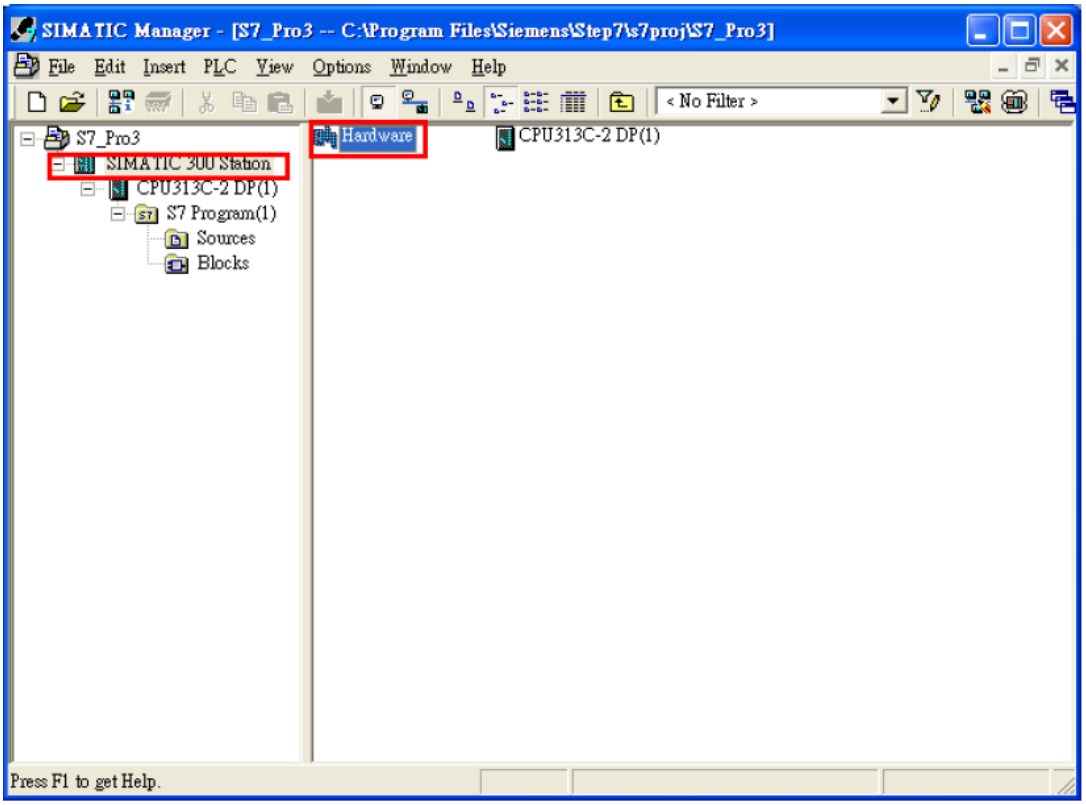


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d. Set project name then click”Finish”



Step 4: Double click “Hardware” to open “HW Config”

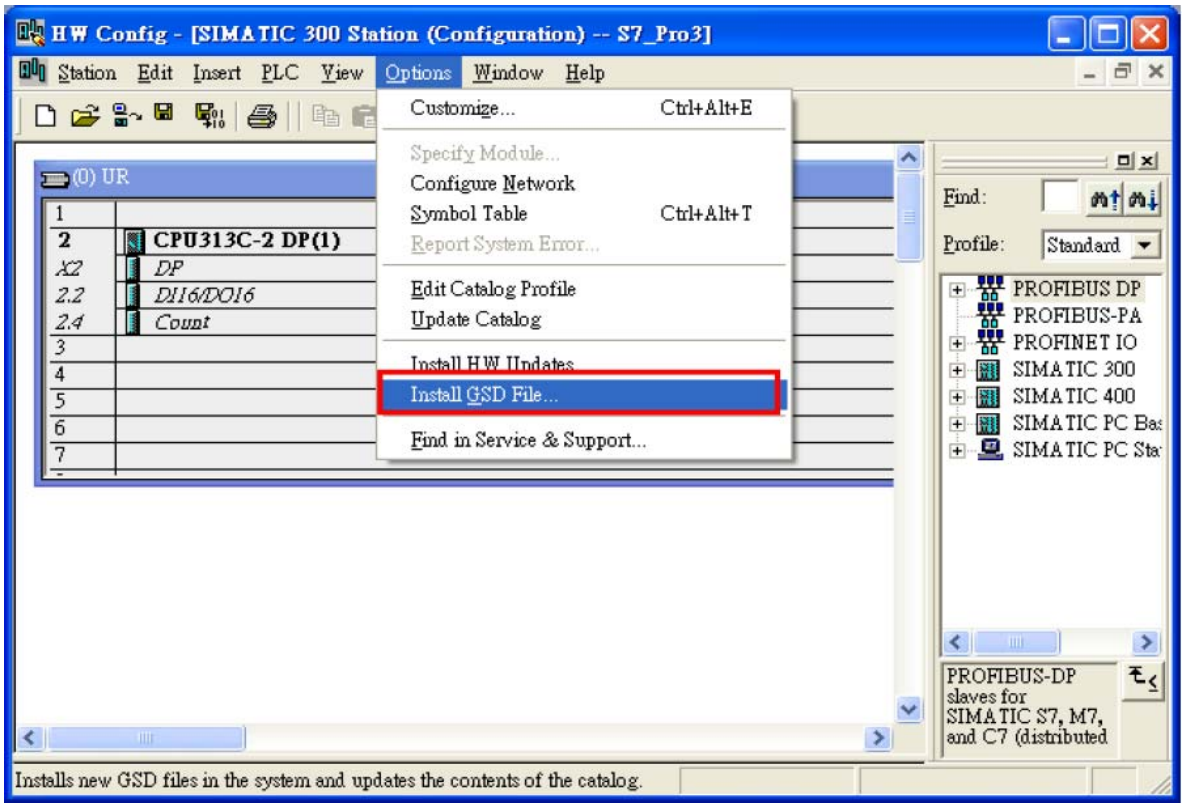


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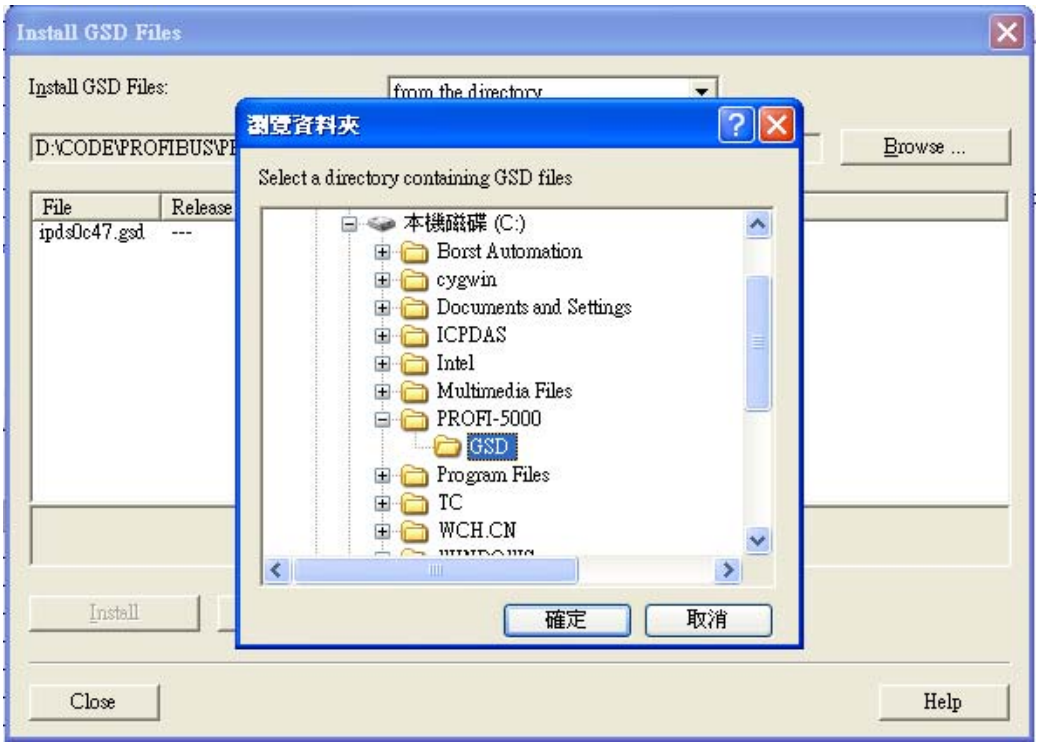
Step 5: Install PROFI-5000 GSD File

ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/remote%20io/profi-5000/gsd/

e. Click “Install GSD File”

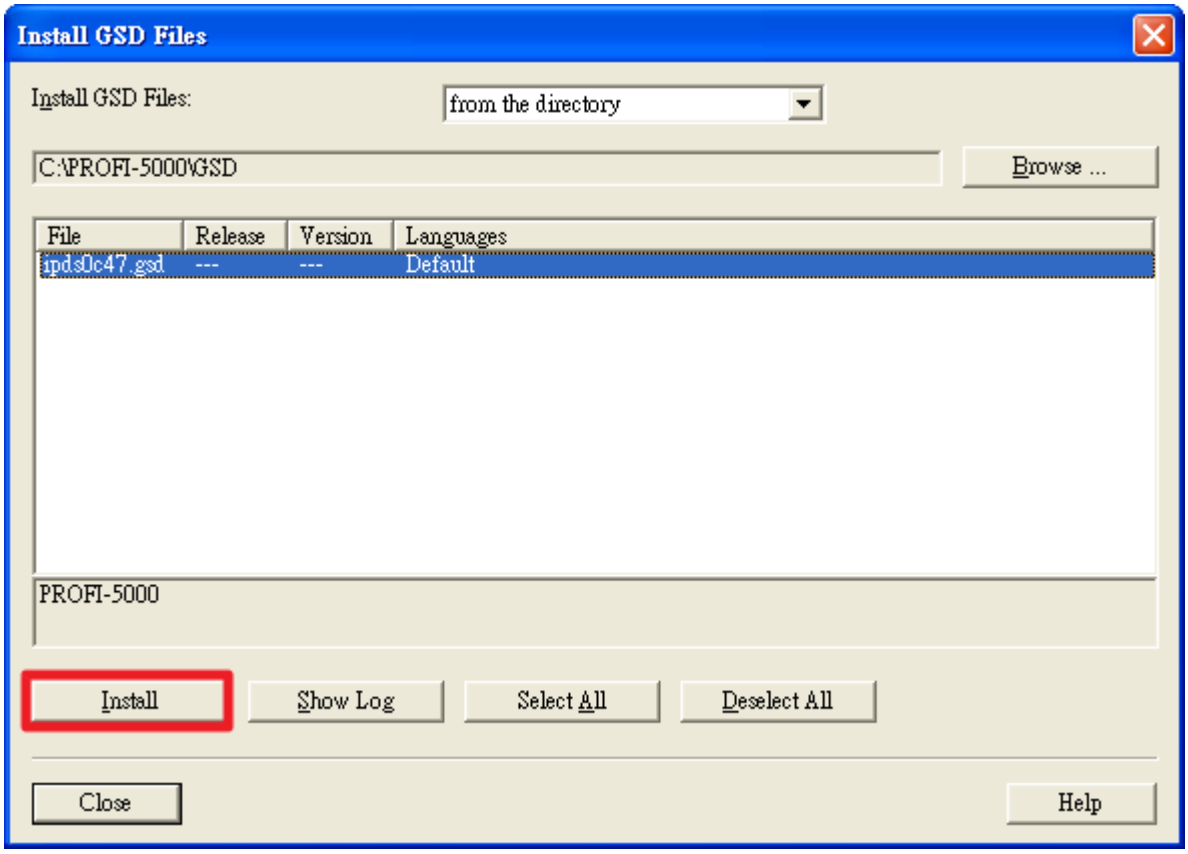


f. Select the directory of PROFI-5017’s GSD file(ipds0c47.gsd) and click “OK”

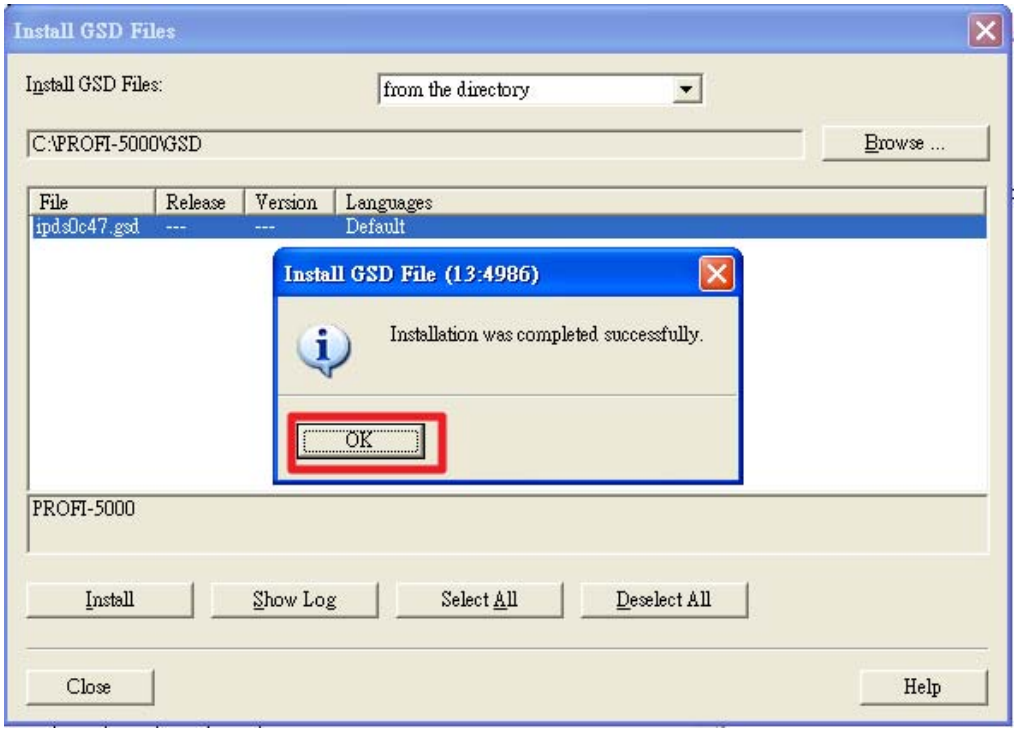


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g. Click “Install”



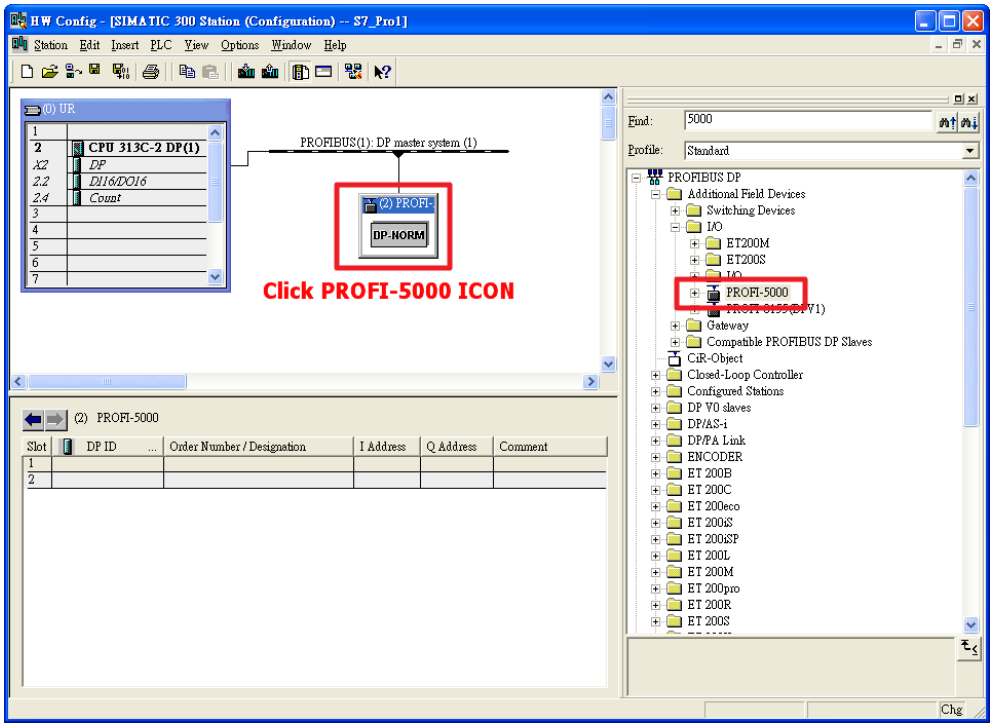
h. Click “OK”



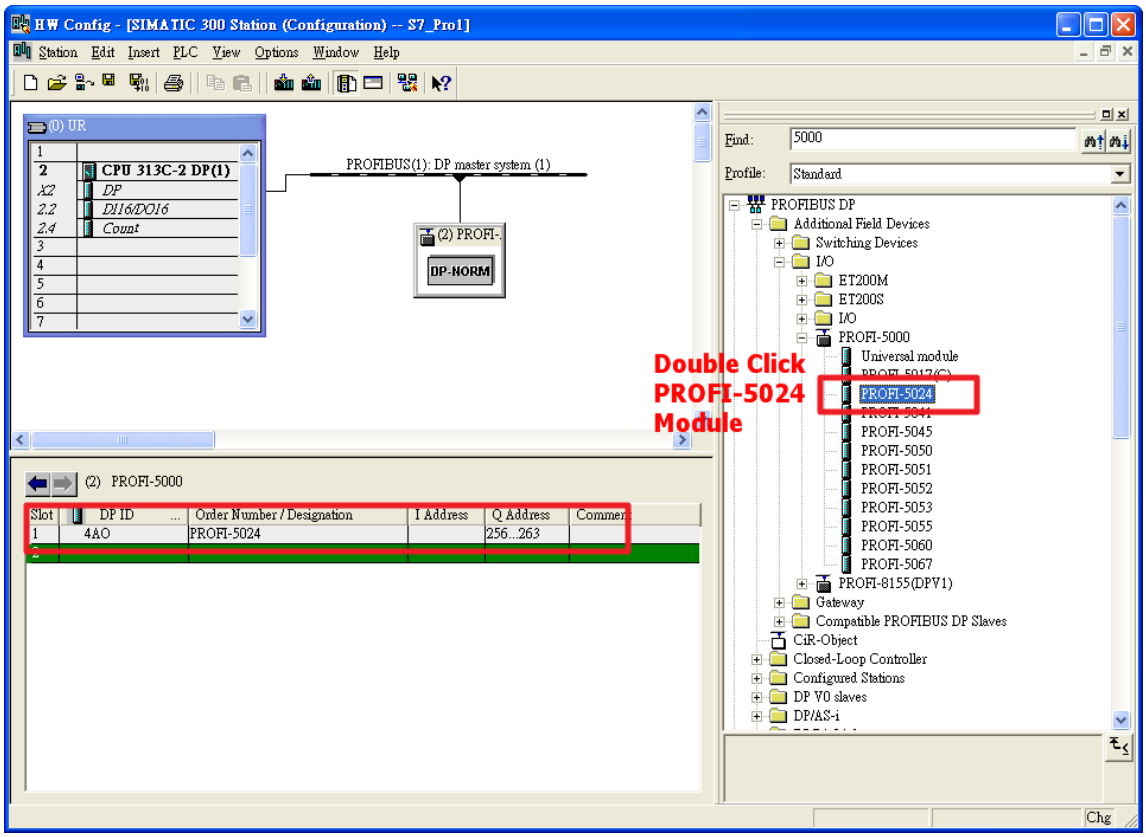
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Step 6: Setup the PROFI-5024 module

a. Select PROFI-5000 module



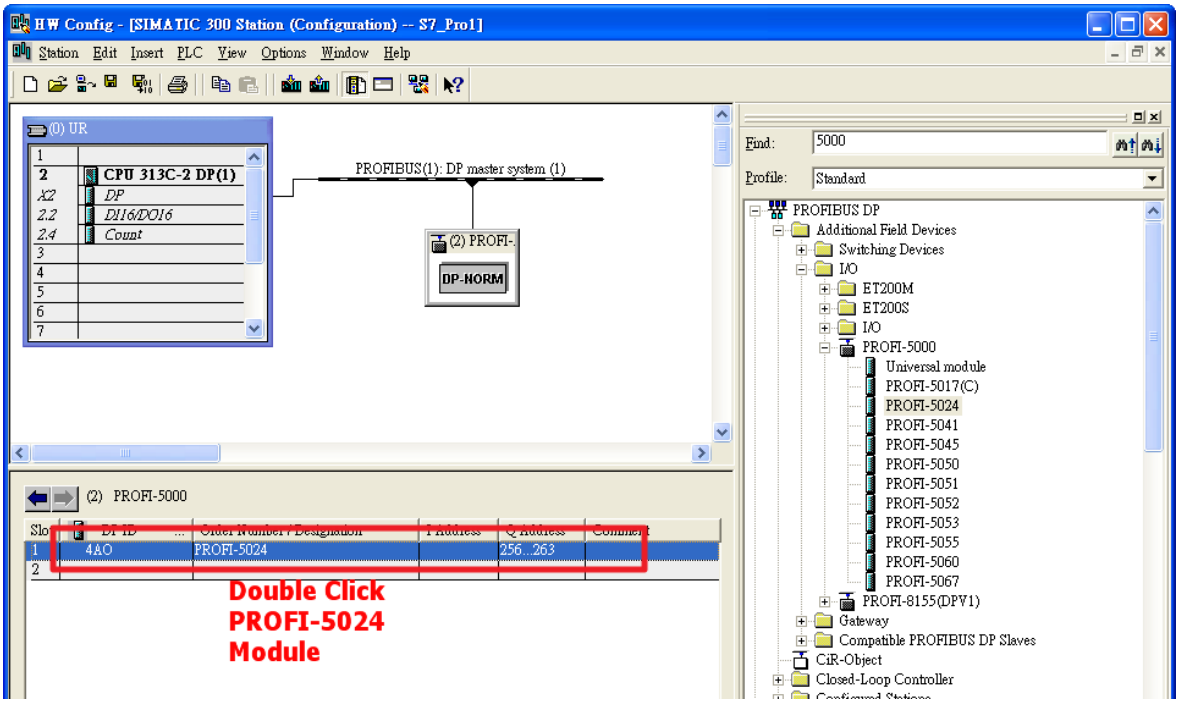
b. Add a “PROFI-5024 module”



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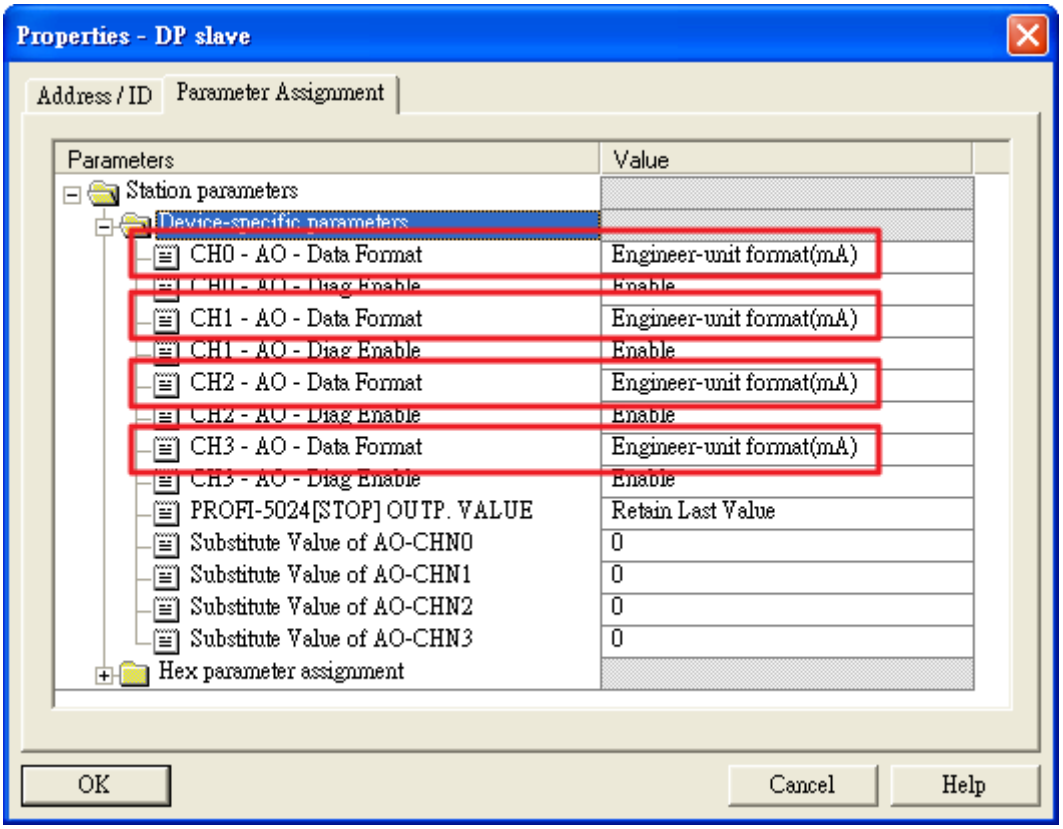
Step 7: Setup the parameters of the PROFI-5024

a. Double Click “PROFI-5024 module”



b. Select “Parameter Assignment”

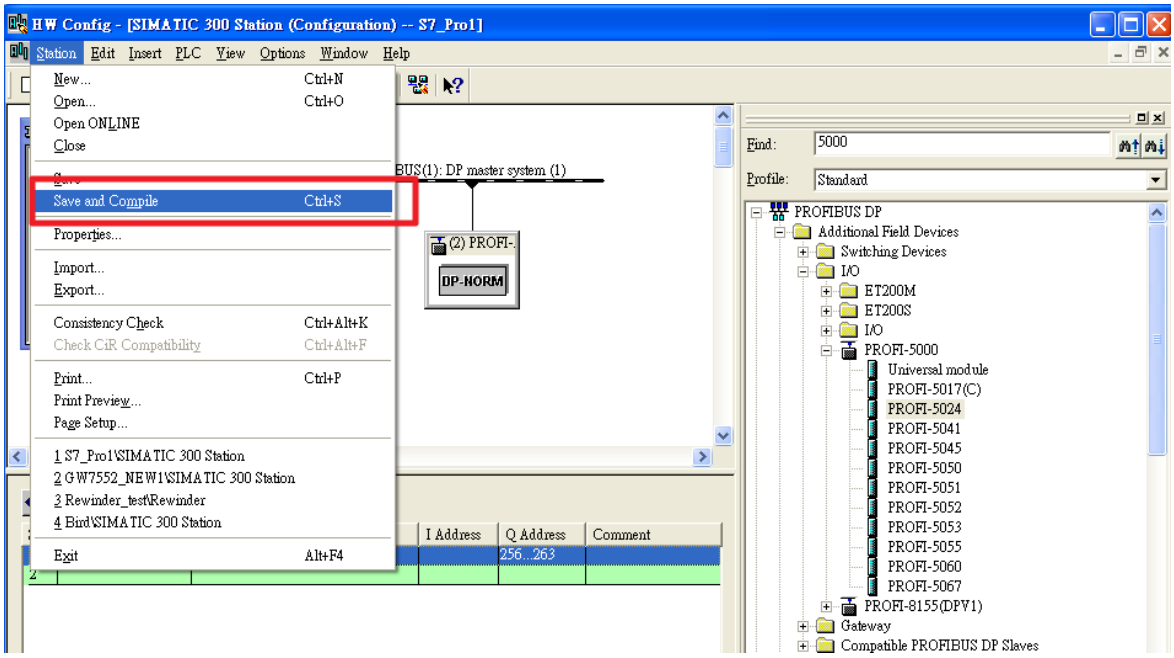
Data Format of CH0~CH3 : Engineer-unit format(mA)



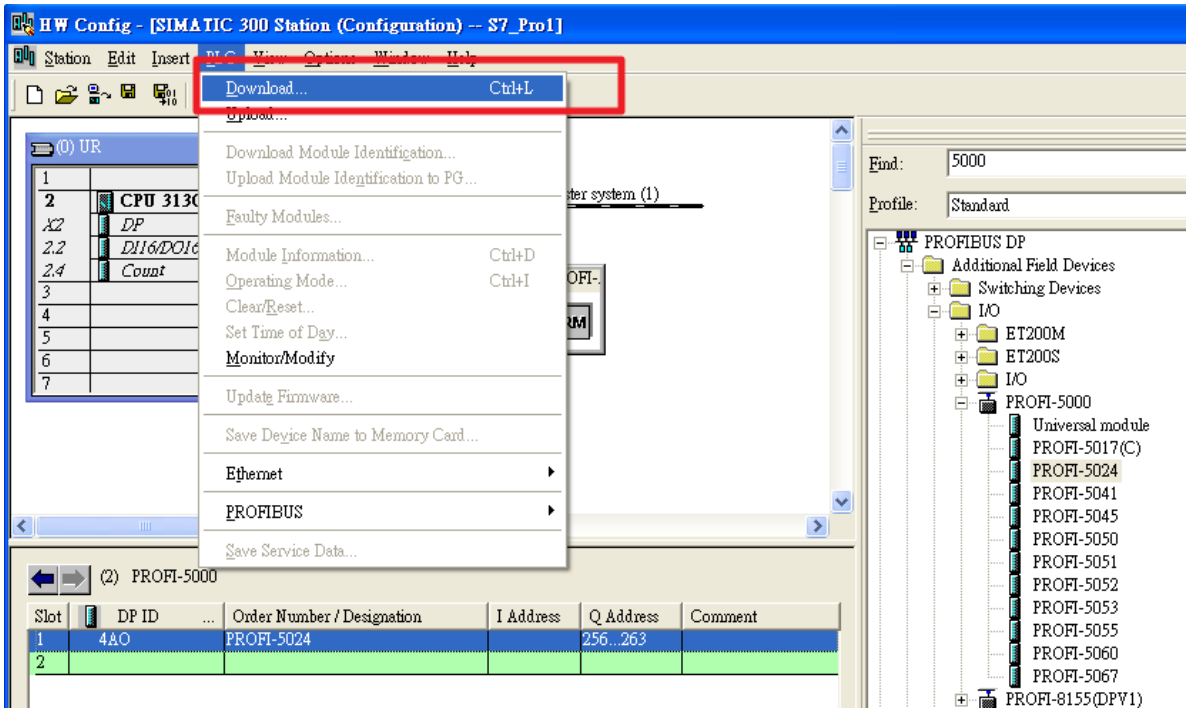
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Step 8: Download the HW settings into SIMATIC PLC

a. Save and Compile



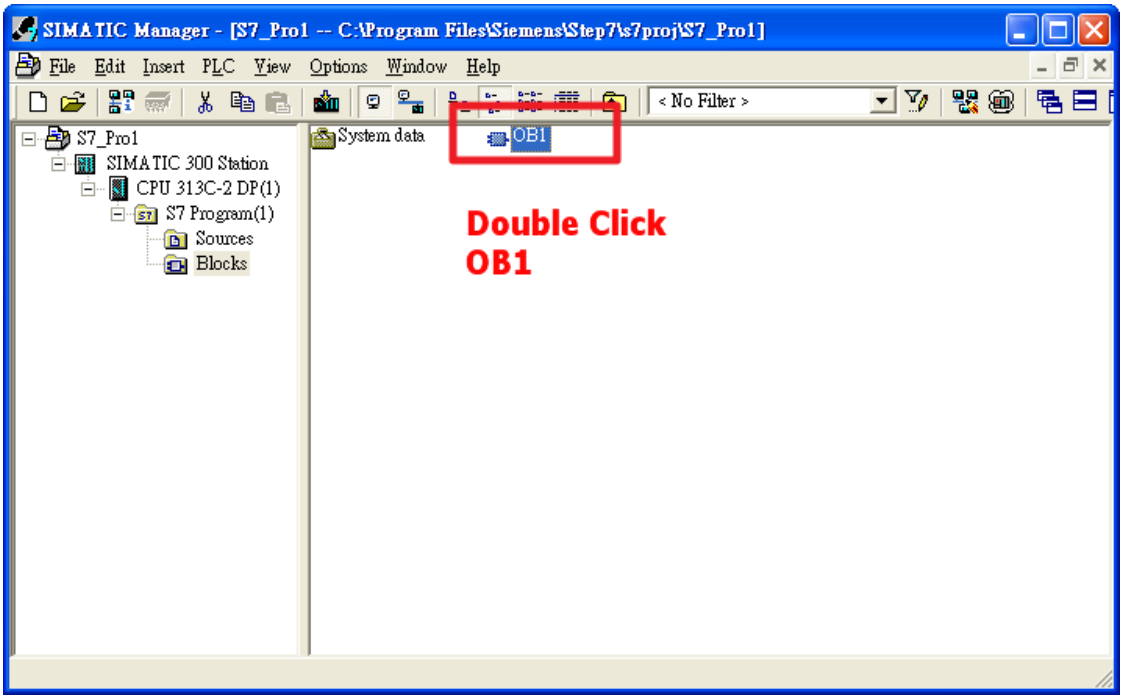
b. HW settings into SIMATIC PLC



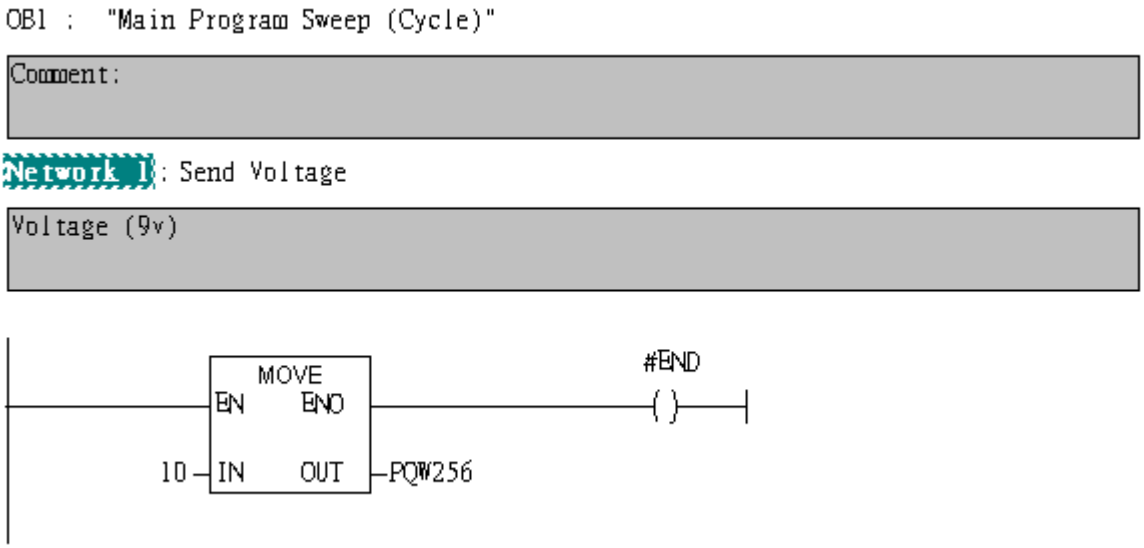
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Step 9: Edit OB1

a. Double click “OB1”

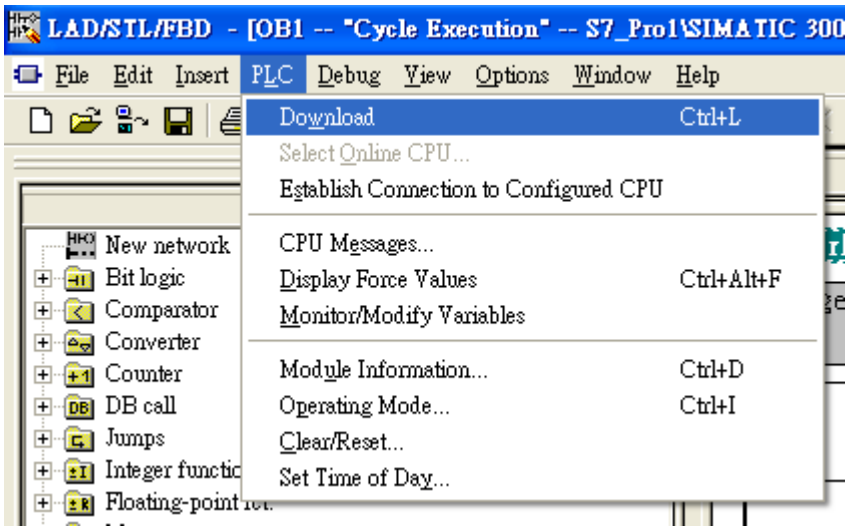


b. Program



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Step 10: Download the settings into SIMATIC PLC

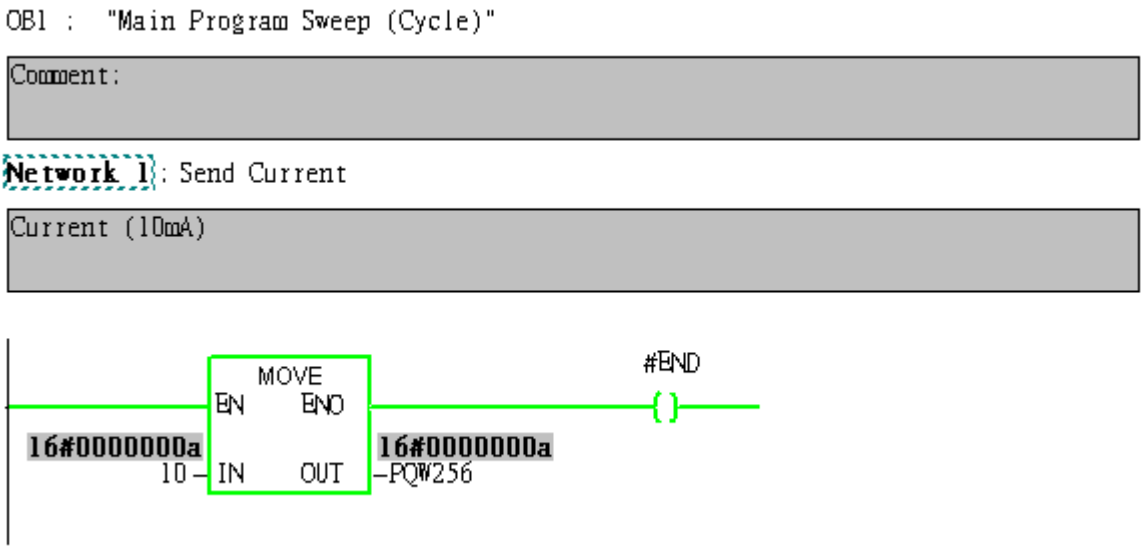


Step 11: Make sure the RUN LED of the PROFI-5024 is ON.



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Now the setting procedure has been finished and the user can send current of channel 0 at address PQW256



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