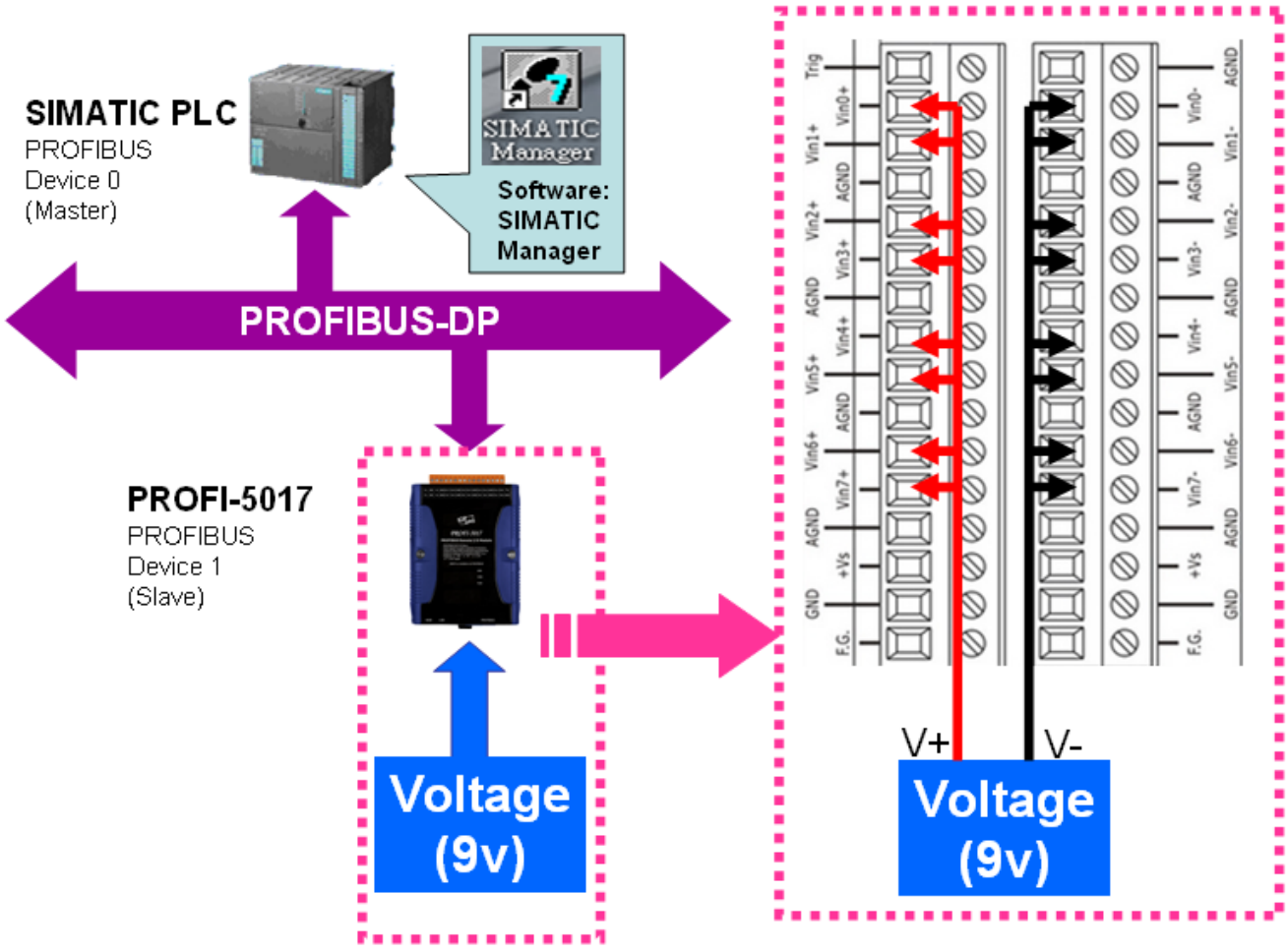
How to receive data at SIMATIC STEP 7 ?

PROFI-5017 : Example 1

PROFI-5017C : Example 2

Example 1 : PLC reads voltage(9v) from PROFI-5017

1. Architecture



"Follow the below steps to establish the system!"

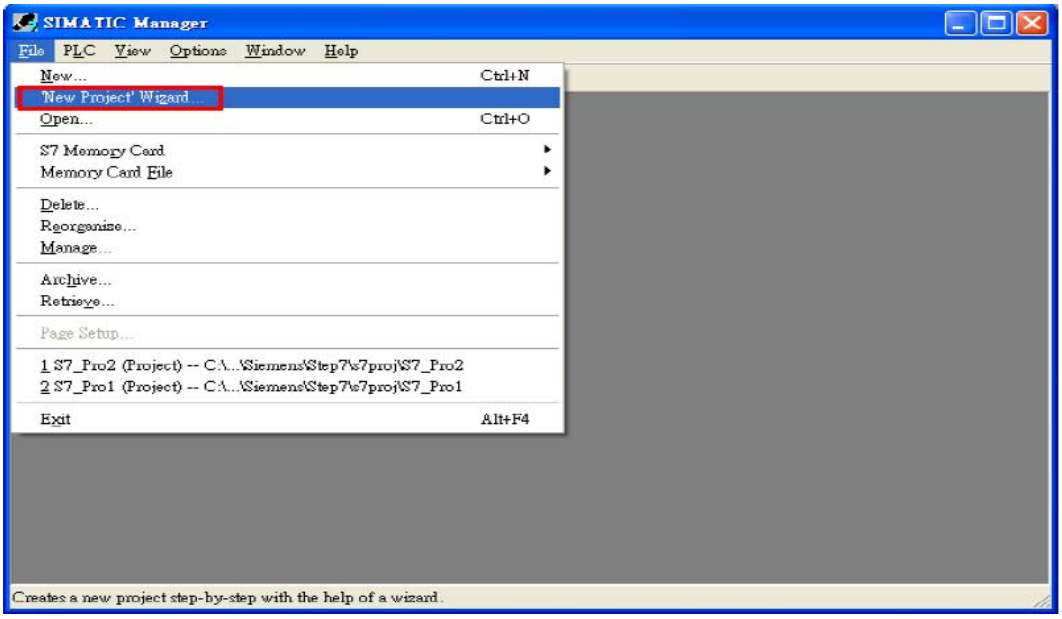
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2.SIMATIC STEP7 Configuration:

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

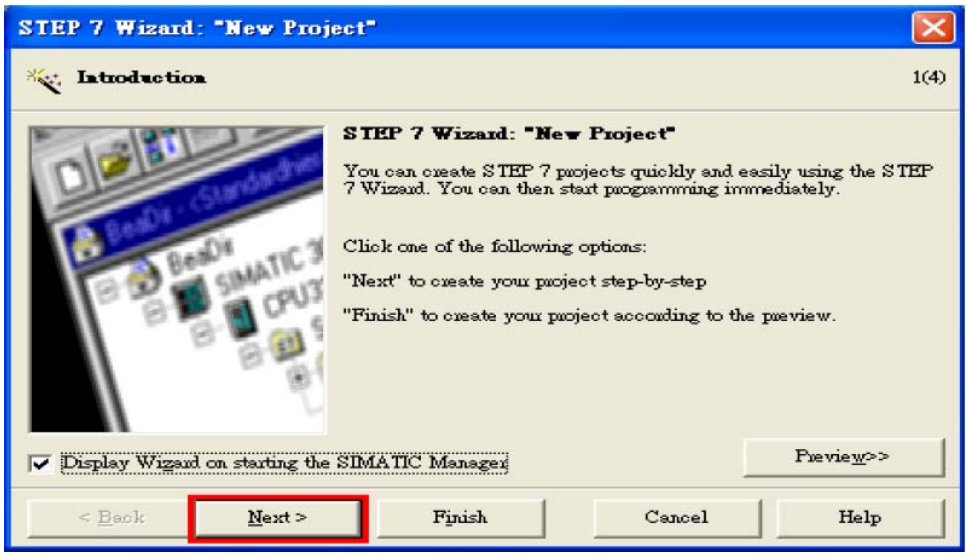


Step 2: Open “ New Project Wizard “



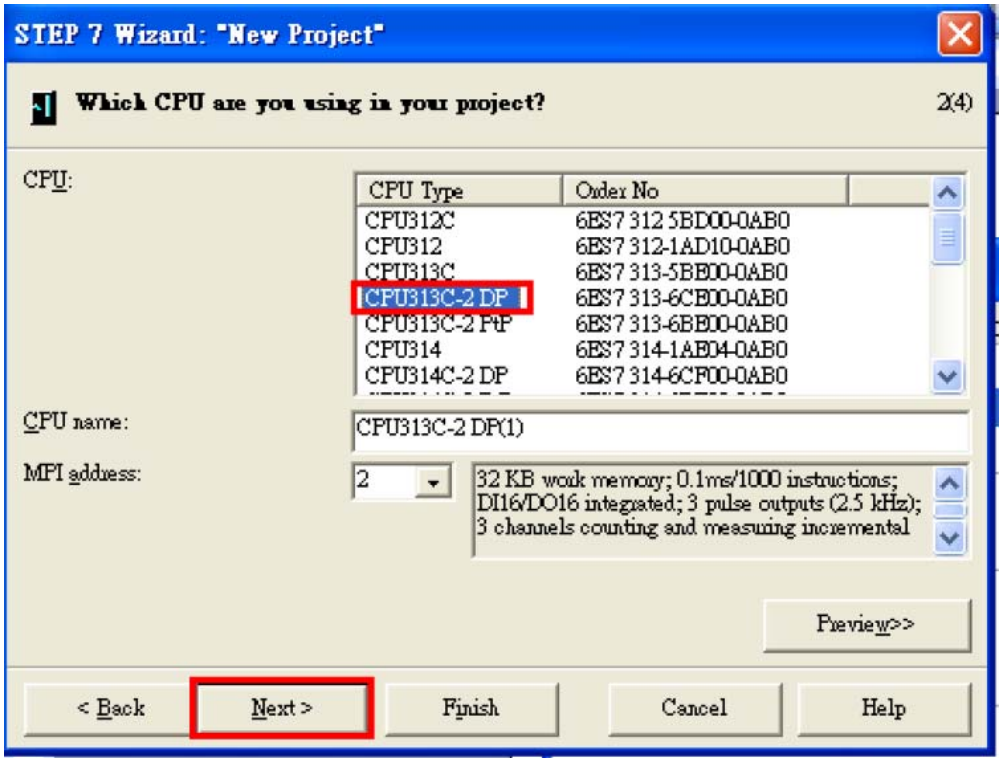
Step 3: Set up Project

a. Click”Next”

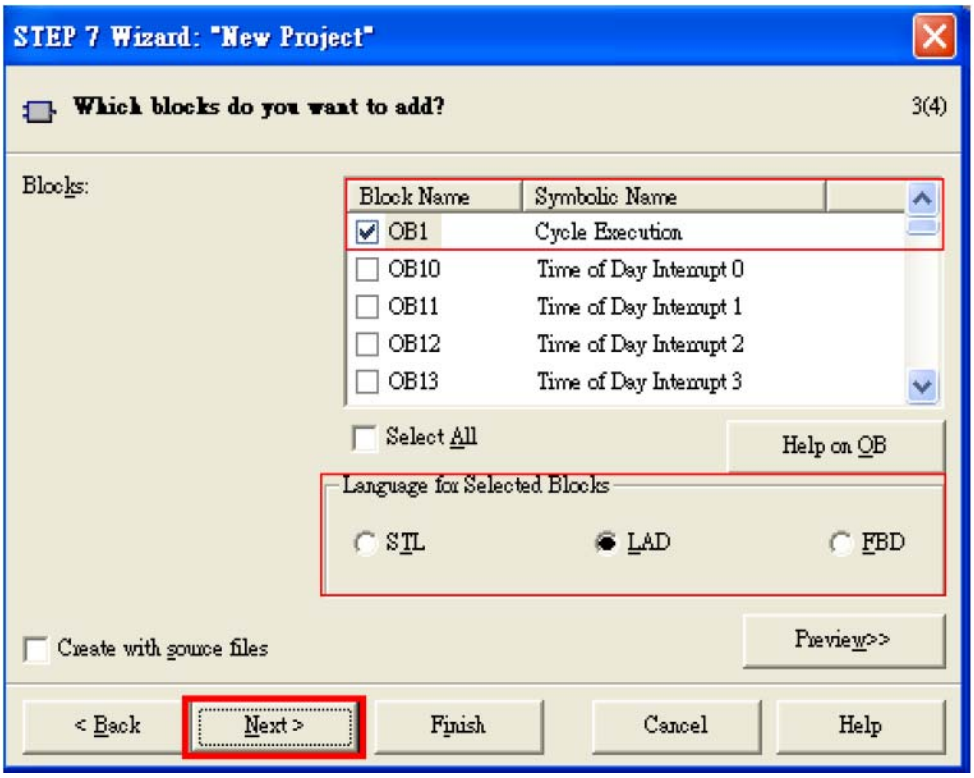


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b. Select CPU type then click ”Next”

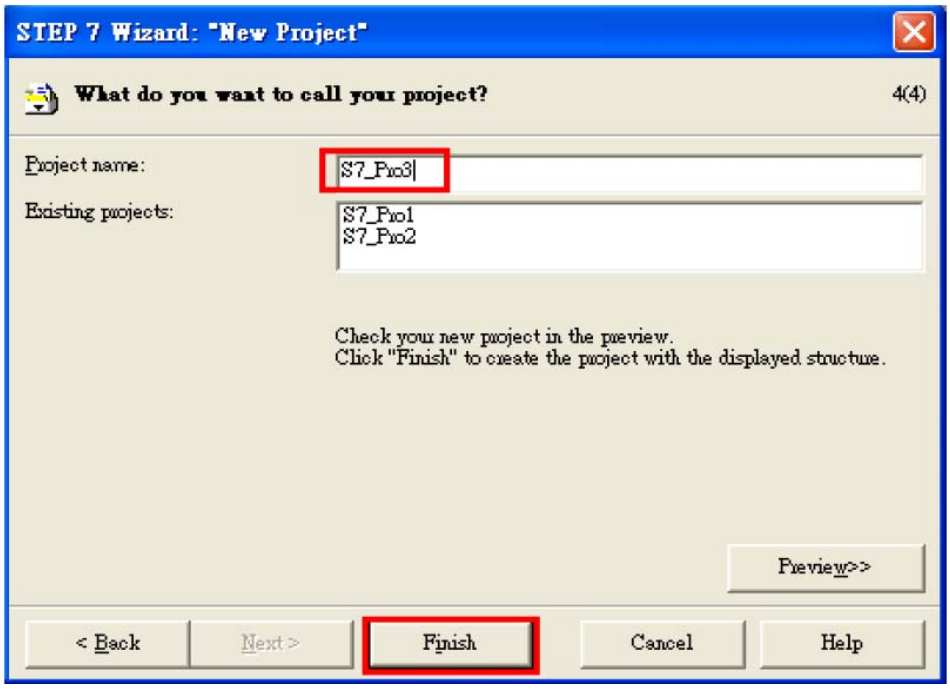


c. Select Blocks and Language for Selected Blocks then click ”Next”

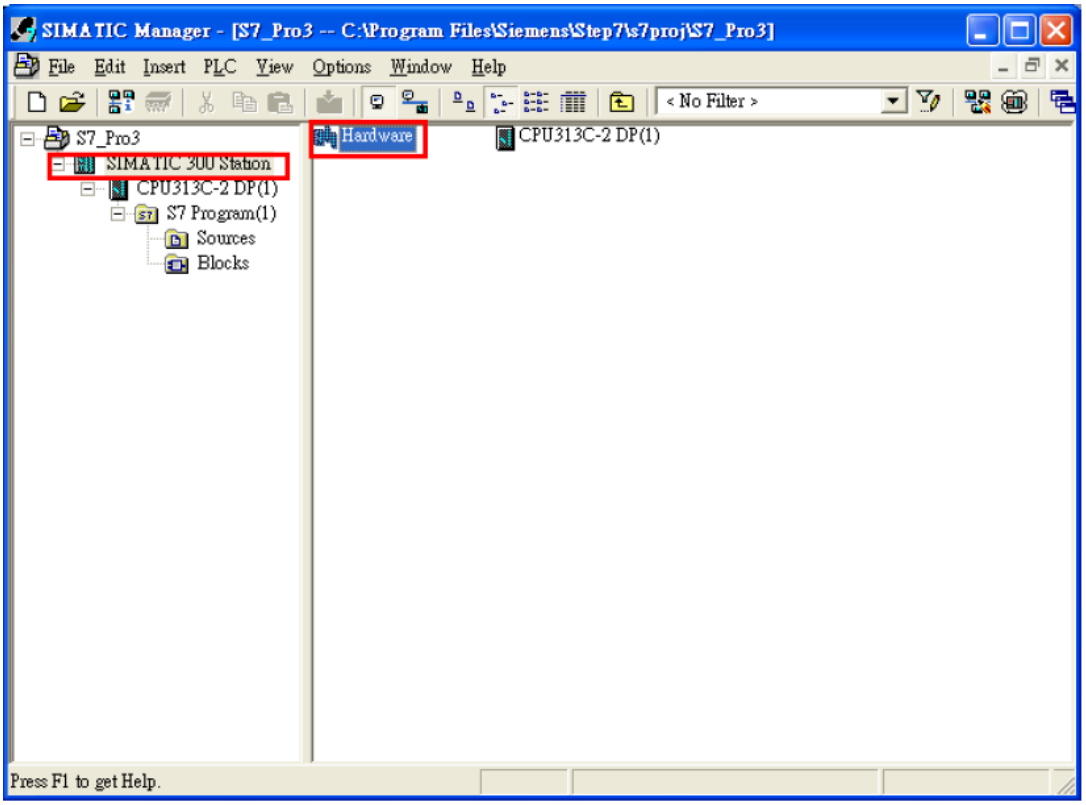


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d. Set project name then click”Finish”



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

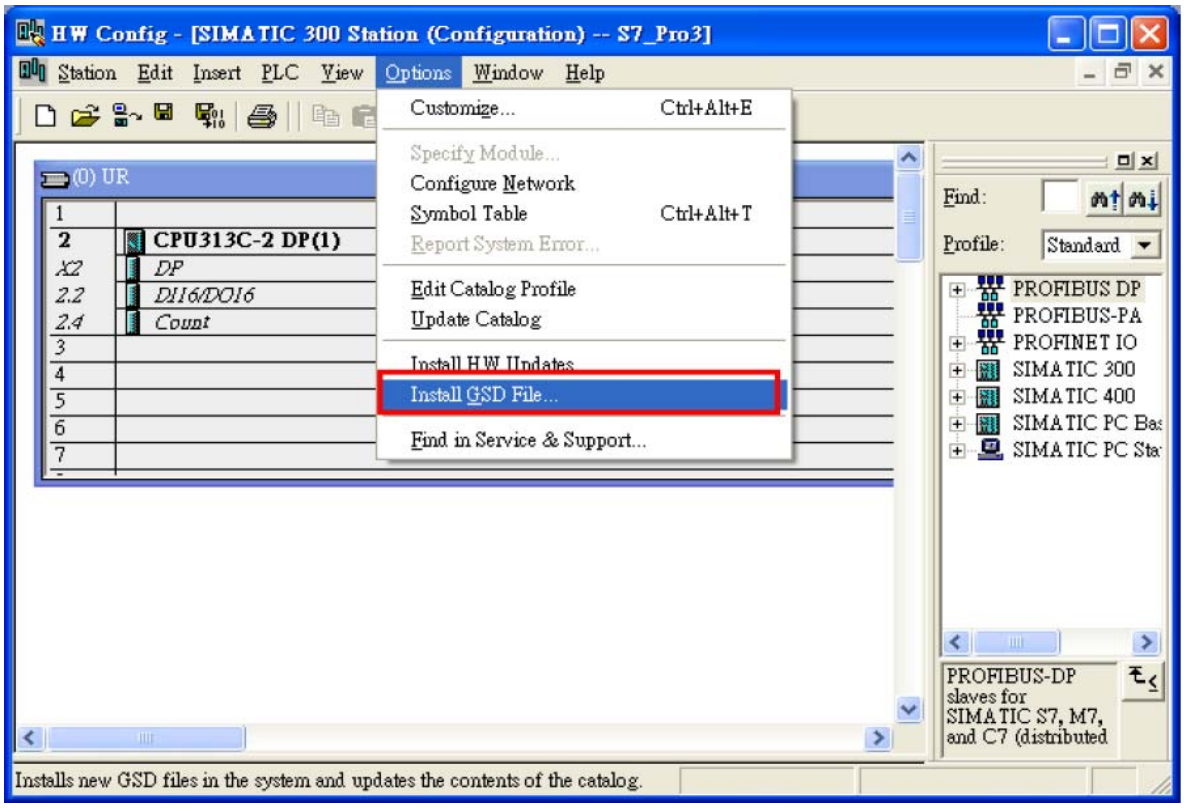


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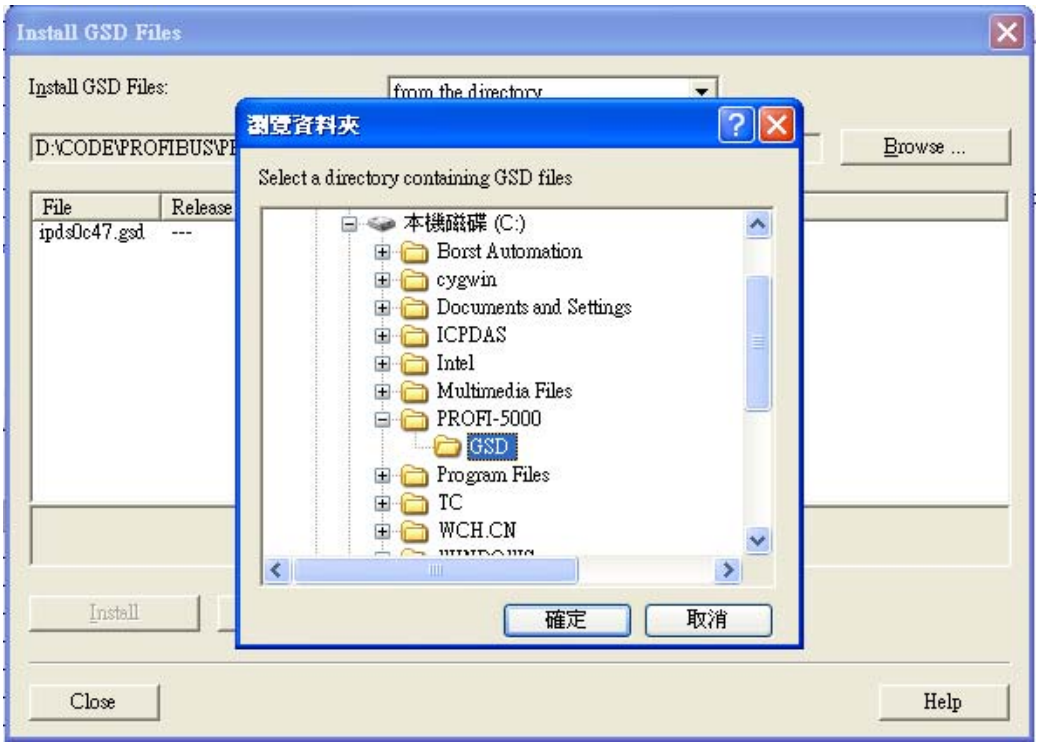
Step 5: Install PROFI-5000 GSD File

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

a. Click “Install GSD File”

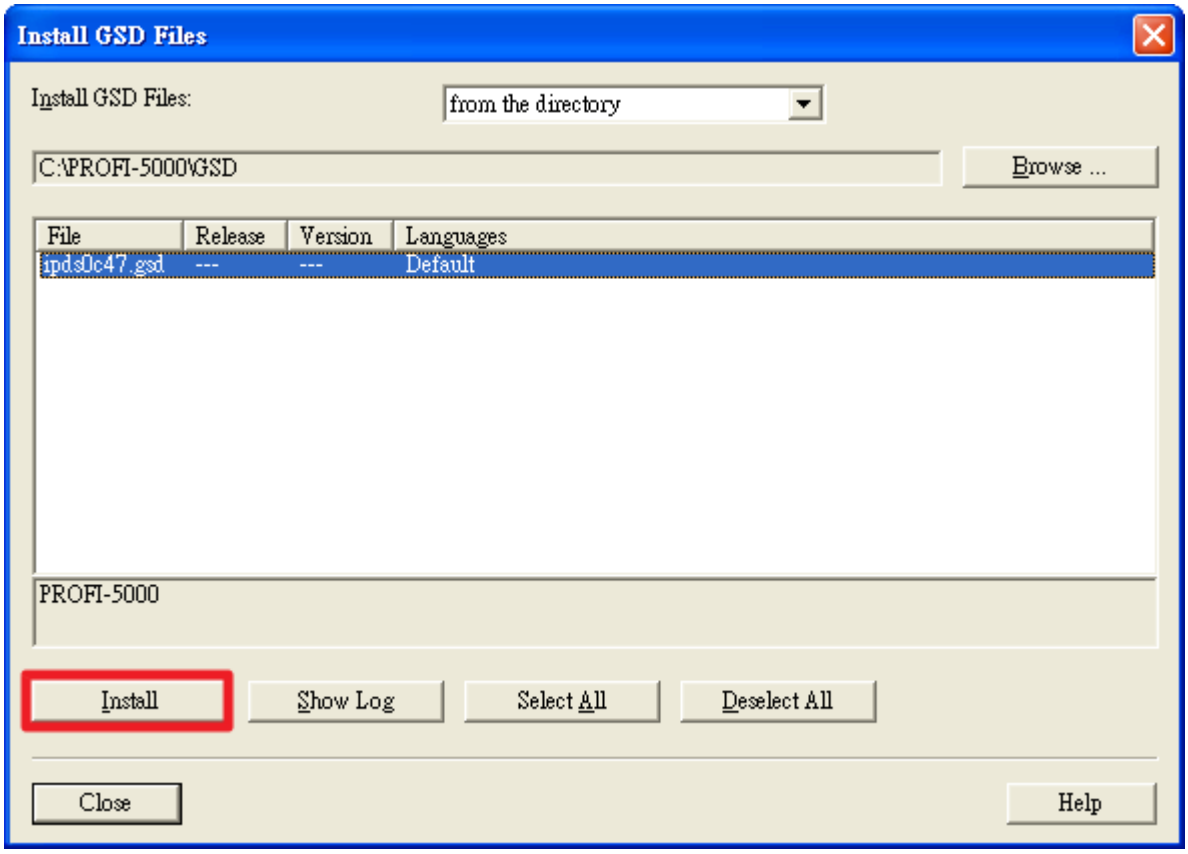


b. Select the directory of PROFI-5017’s GSD file(ipds0c47.gsd) and click “OK”

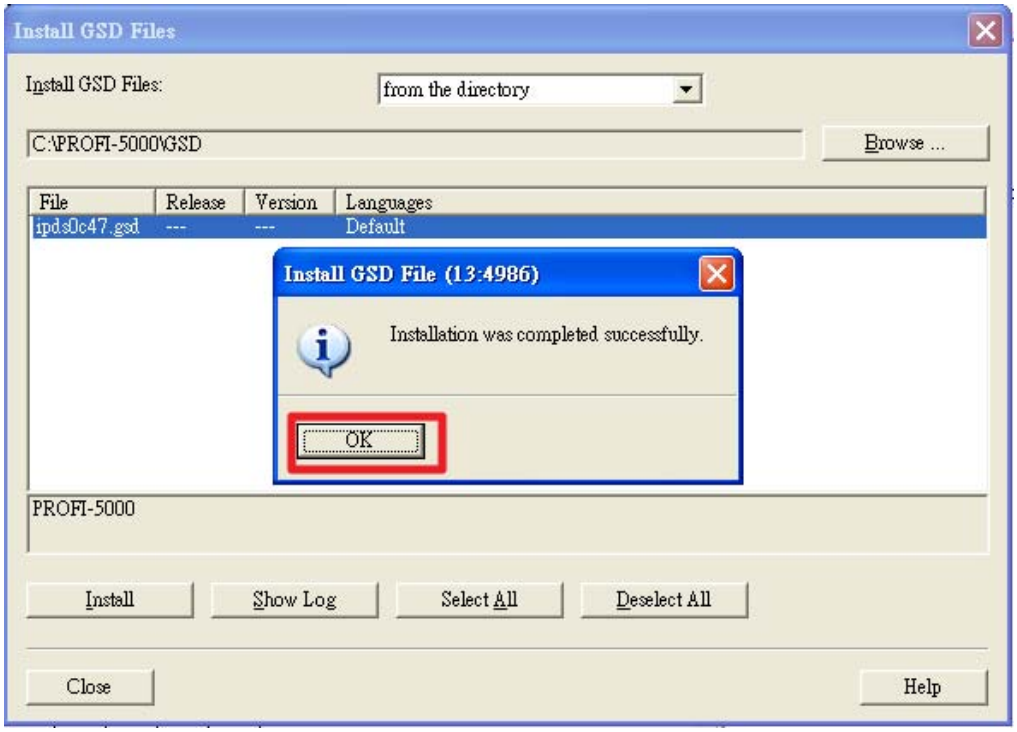


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c. Click “Install”



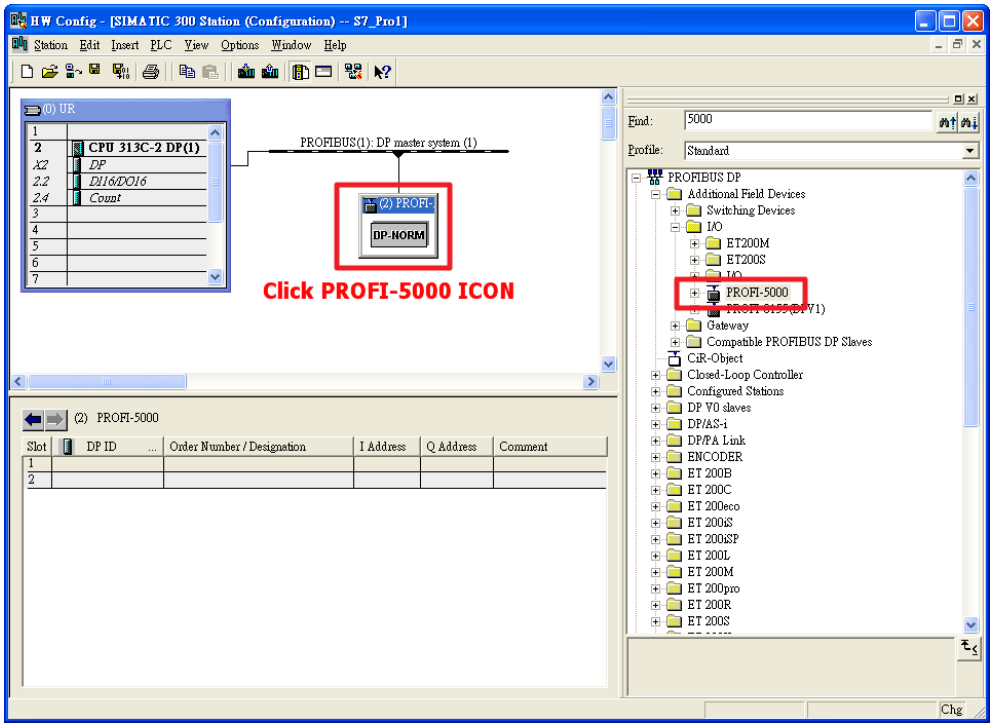
d. Click “OK”



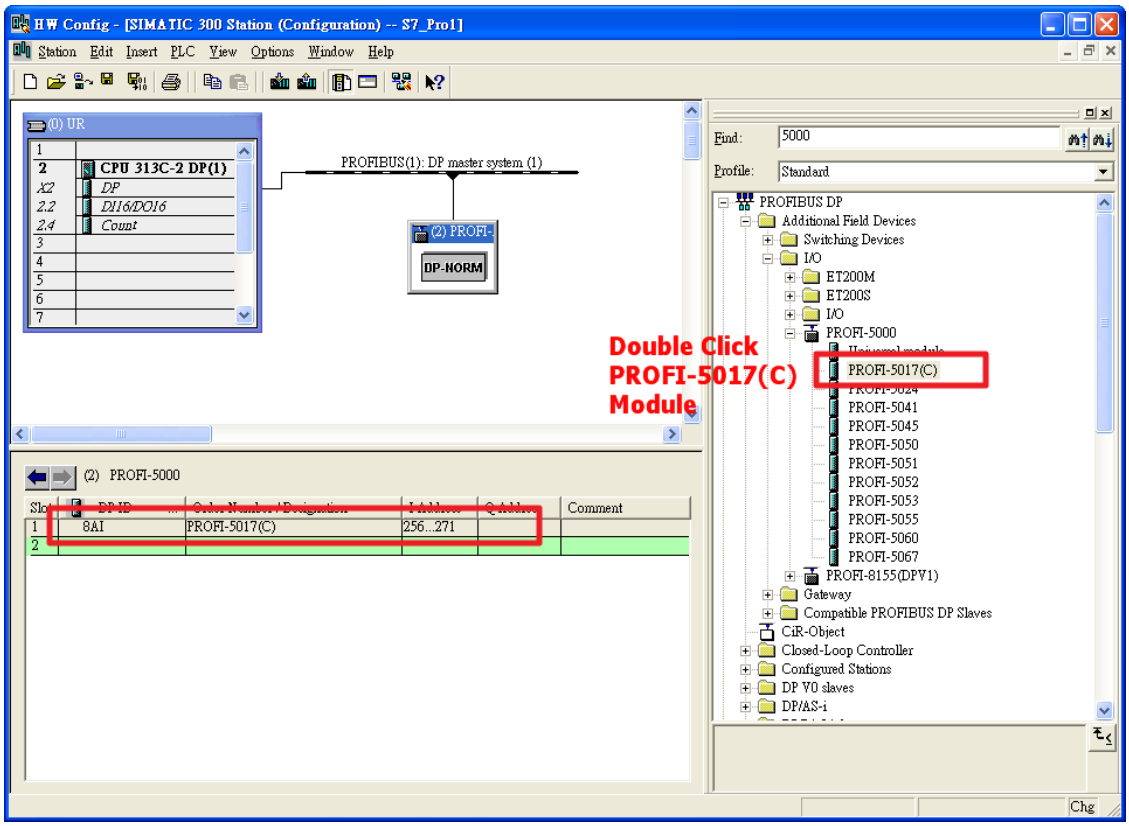
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Step 6: Setup the PROFI-5017 module

a. Select PROFI-5000 module



b. Add a “PROFI-5017(C) module”



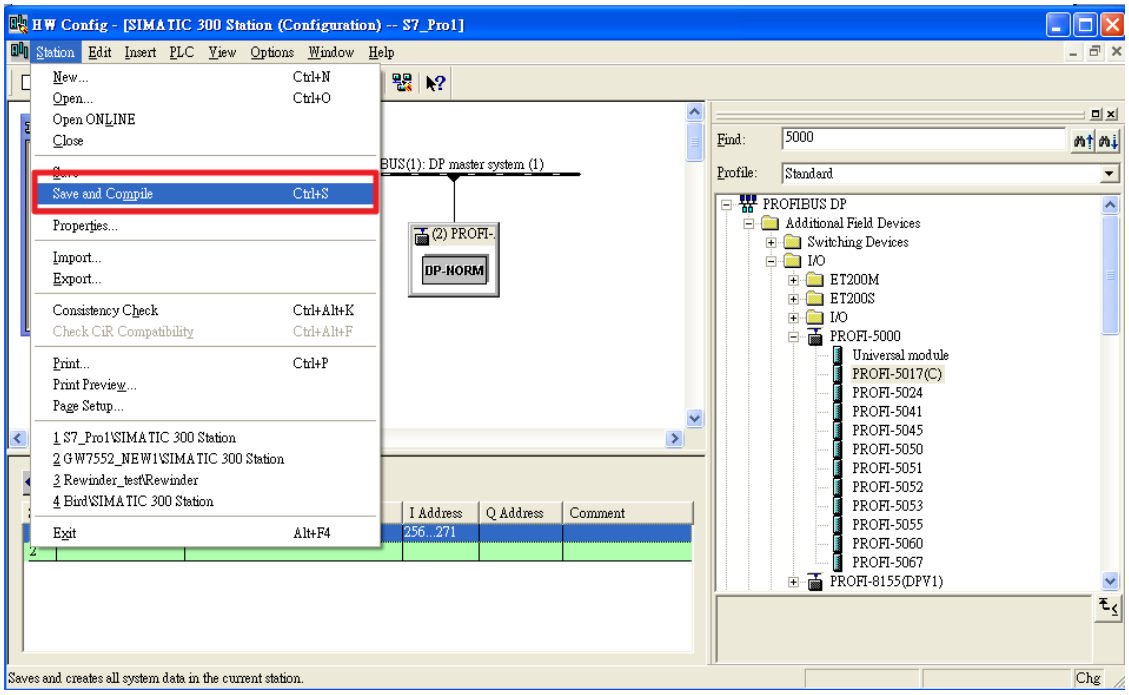
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Step 7: Setup the parameters of the PROFI-5017

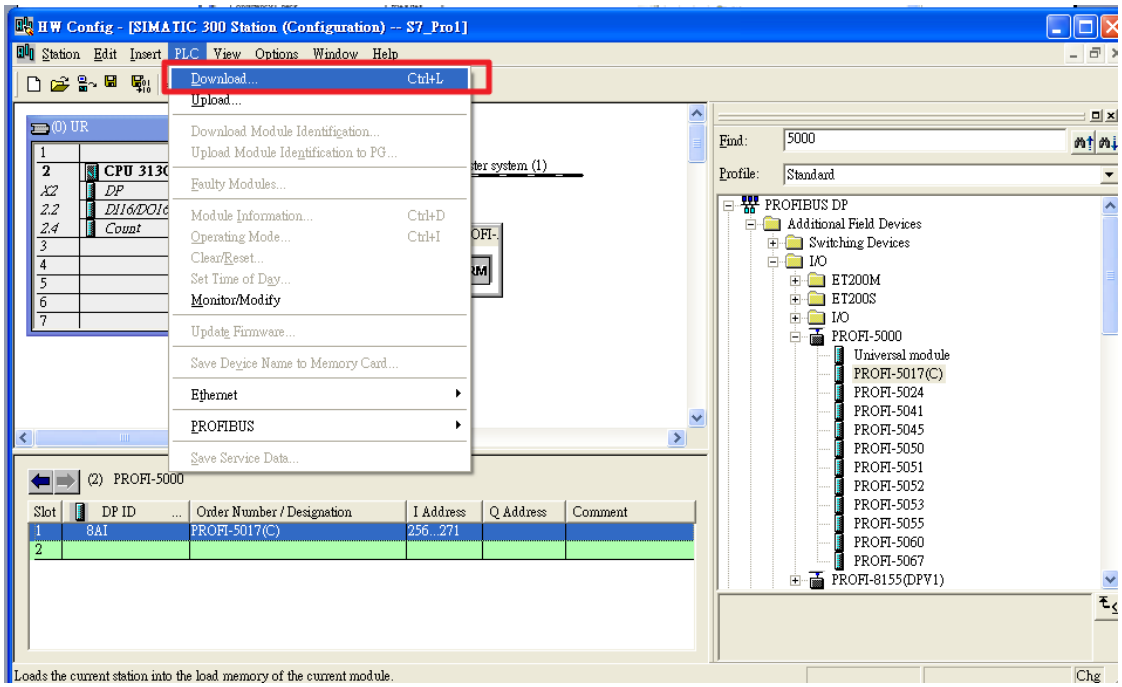
Use the default setting

Step 8: Download the HW settings into SIMATIC PLC

a. Save and Compile



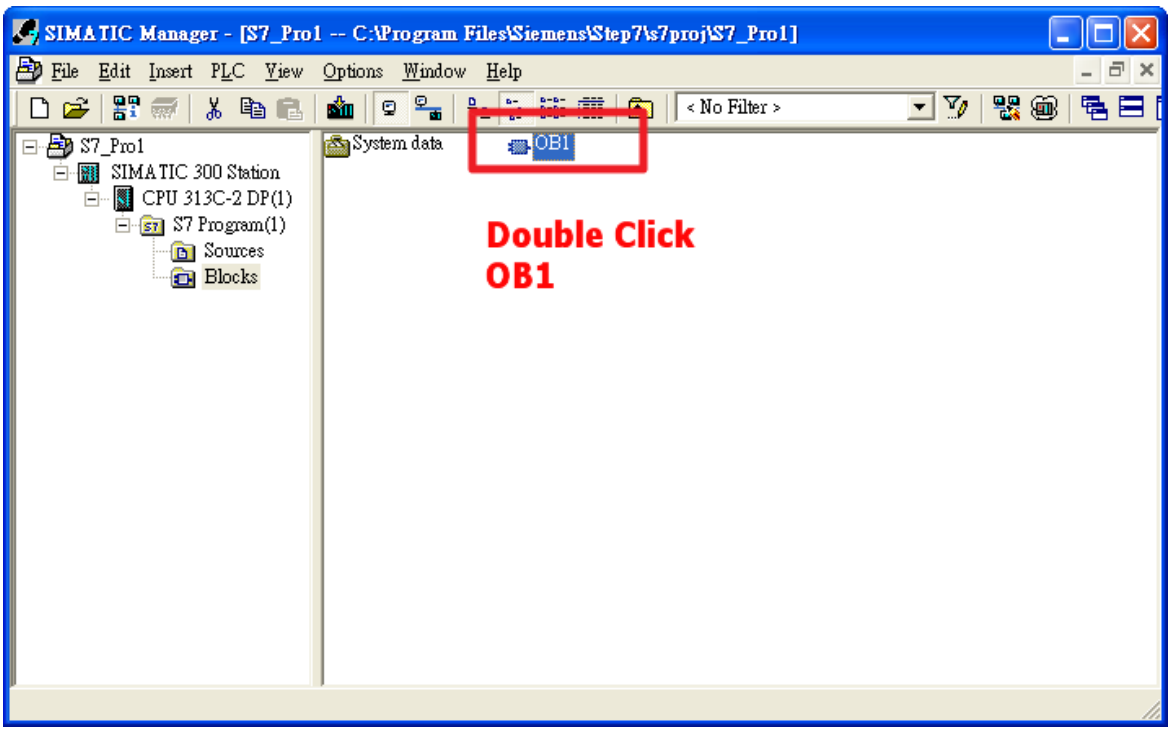
b. HW settings into SIMATIC PLC



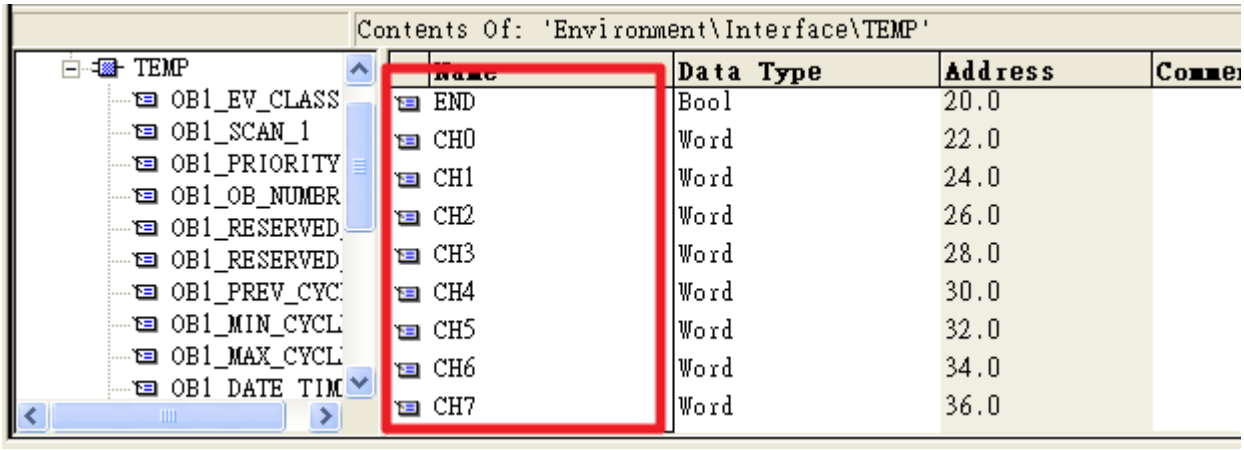
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Step 9: Edit OB1

a. Double click “OB1”



b. Variables used in the example LD Program:

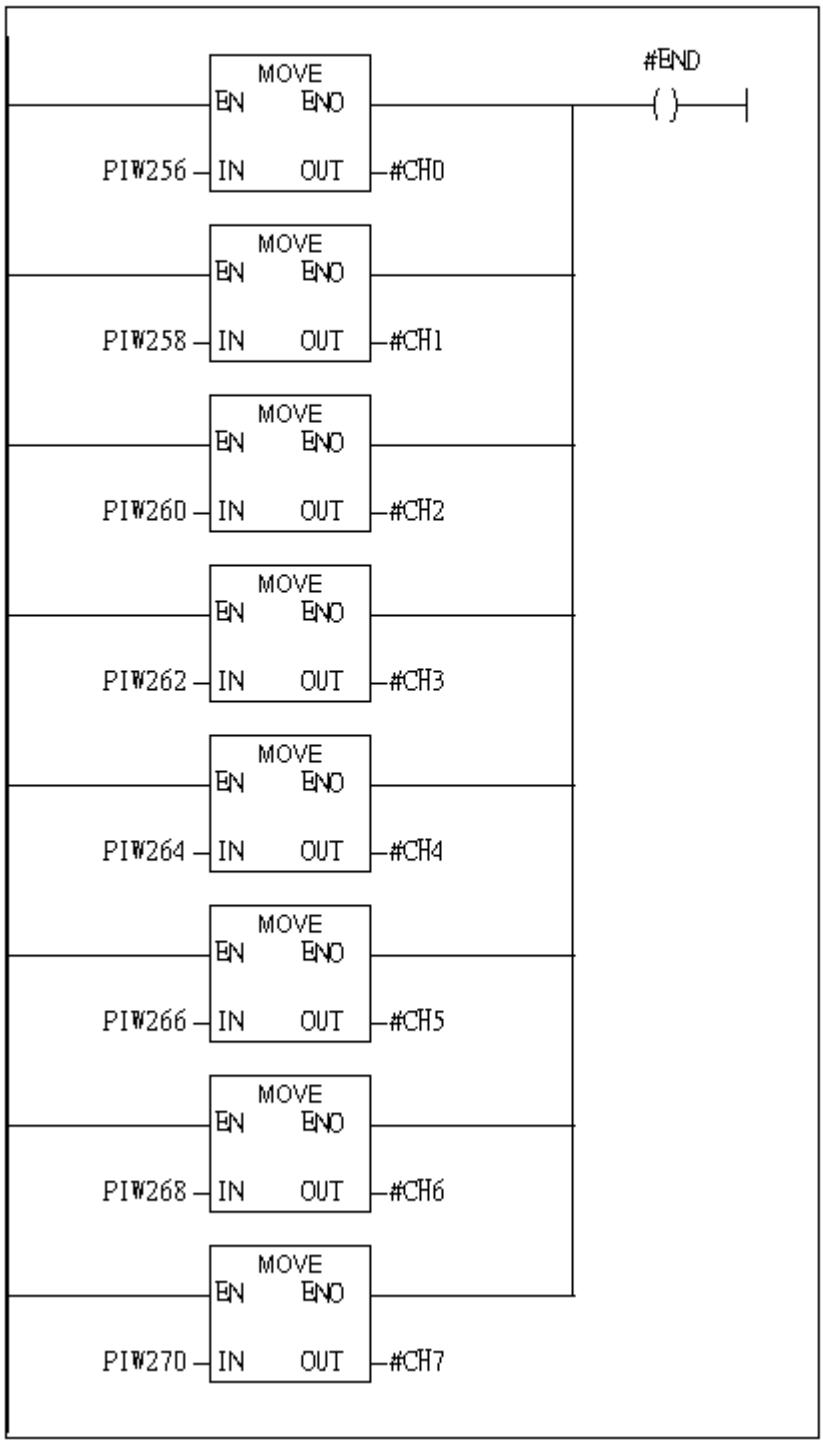


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c. Program

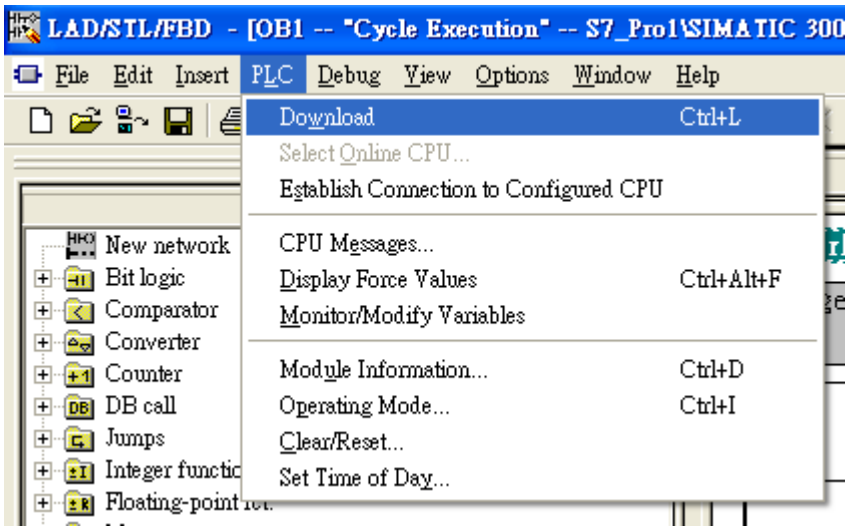
Network 1: Receive Voltage

Voltage (9v)



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Step 10: Download the settings into SIMATIC PLC

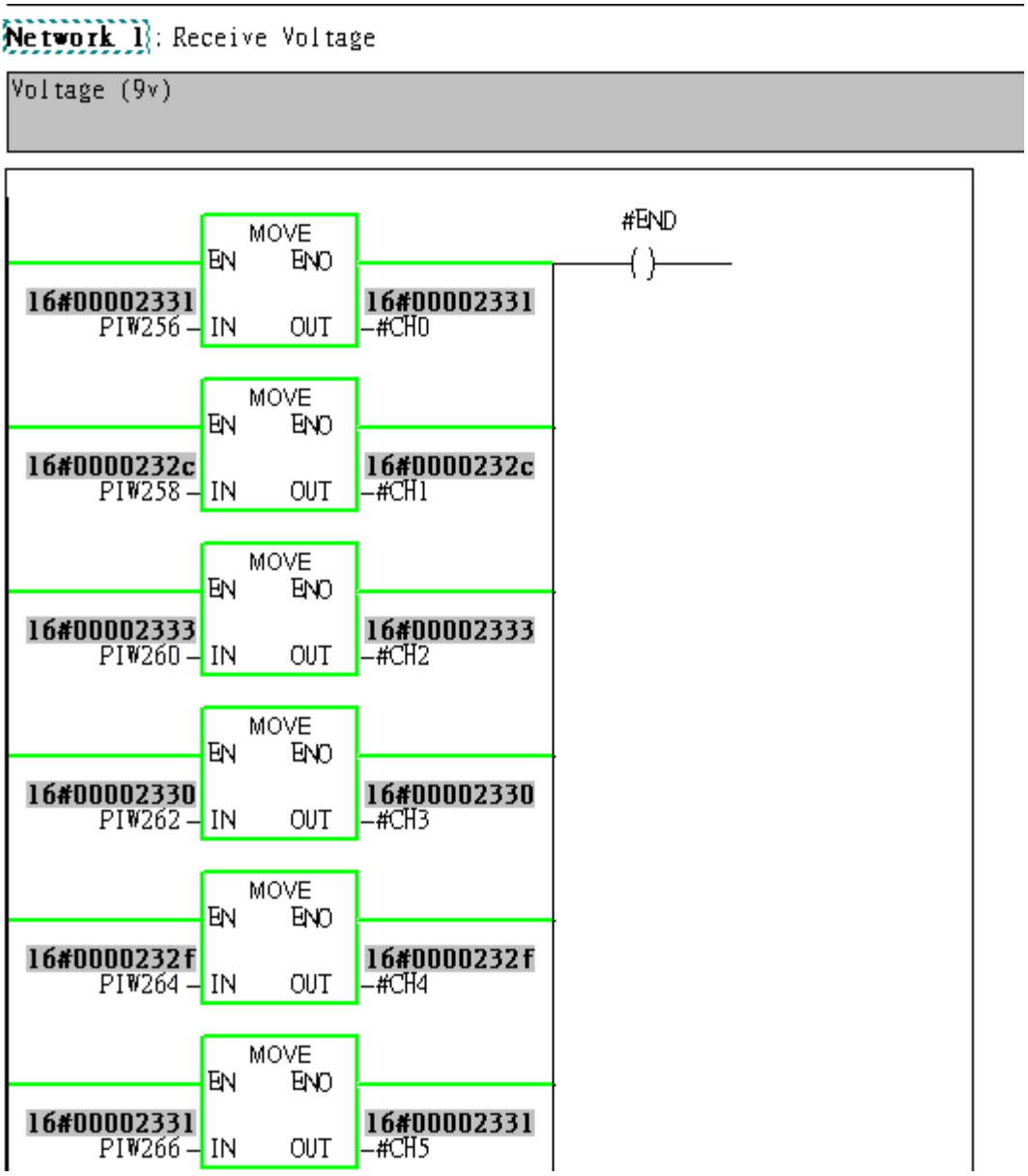


Step 11: Make sure the RUN LED of the PROFI-5017 is ON.



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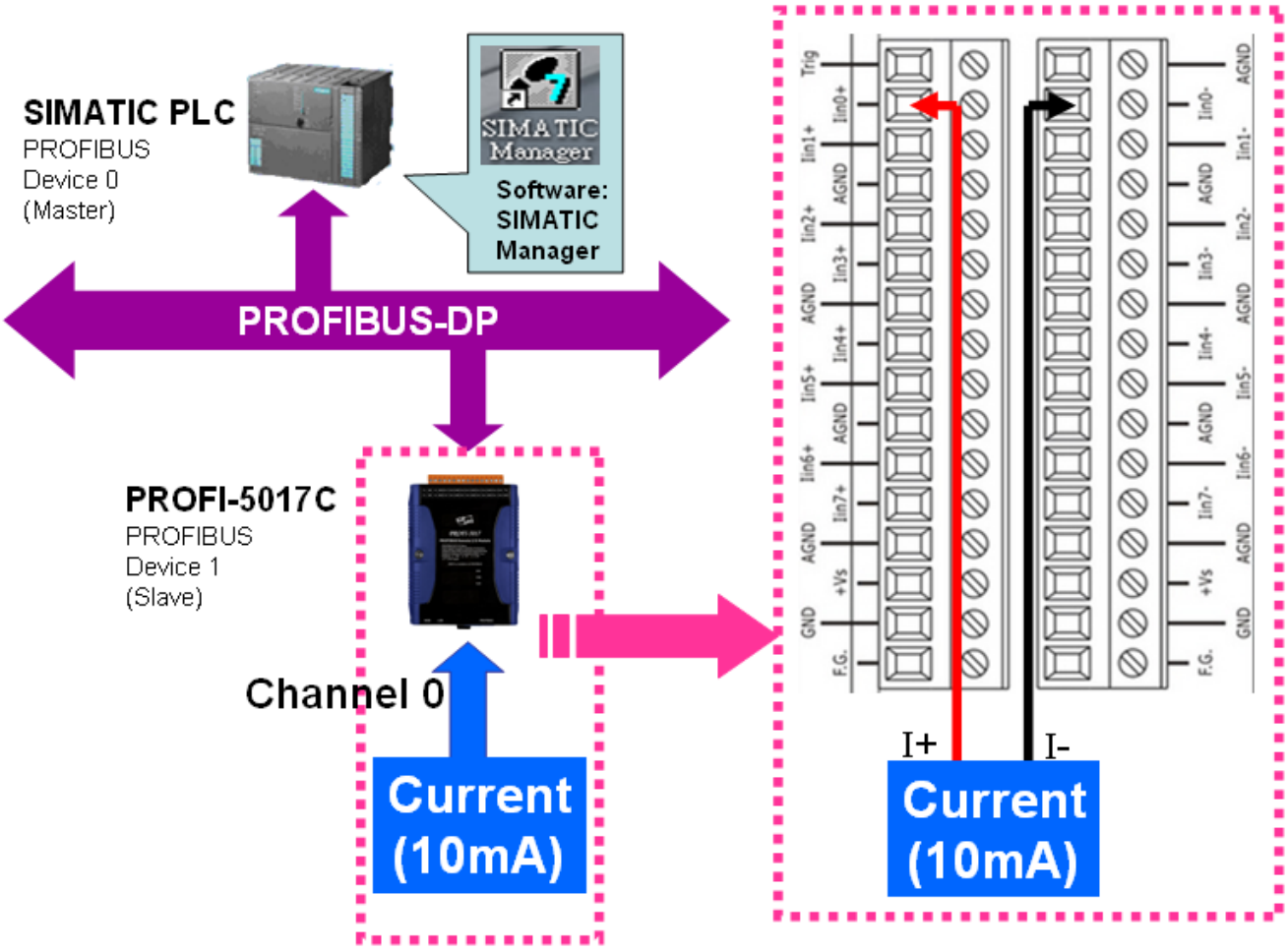
Now the setting procedure has been finished and the user can read voltage of channel 0 ~ channel 7 at address PIW256 ~ PIW 270



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Example 2:PLC reads current(10mA) of channel 0 from PROFI-5017C

1. Architecture



"Follow the below steps to establish the system!"

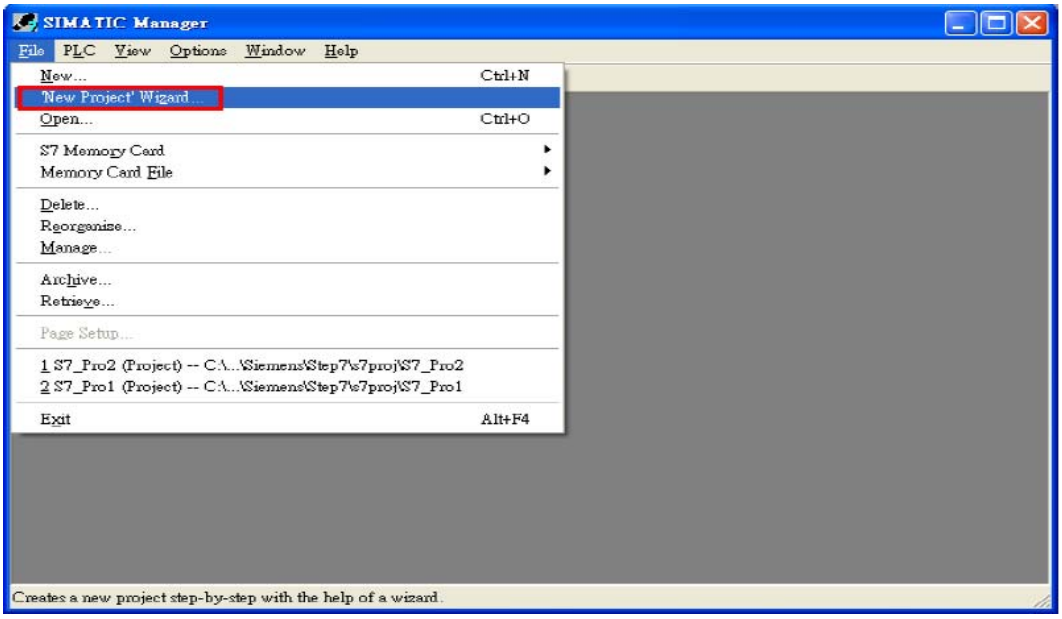
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2.SIMATIC STEP7 Configuration:

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

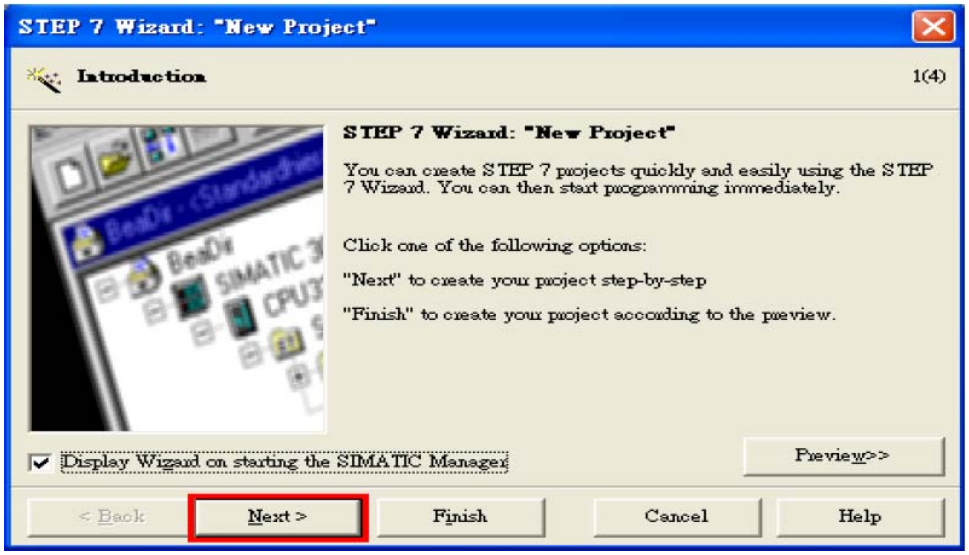


Step 2: Open “ New Project Wizard “



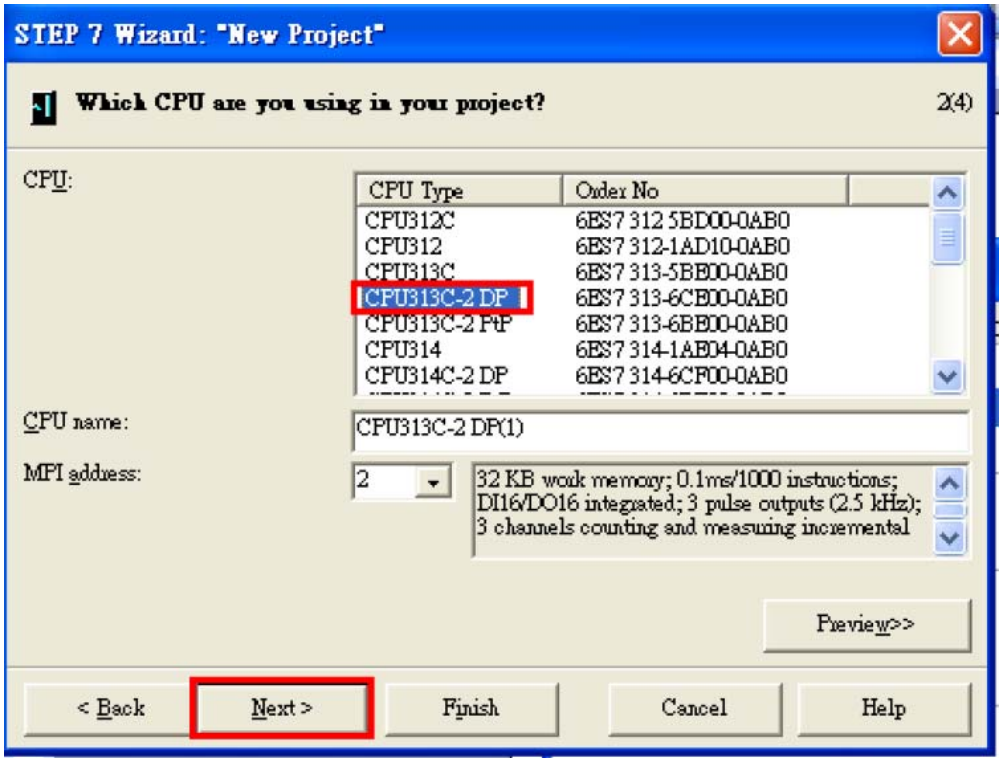
Step 3: Set up Project

a. Click”Next”

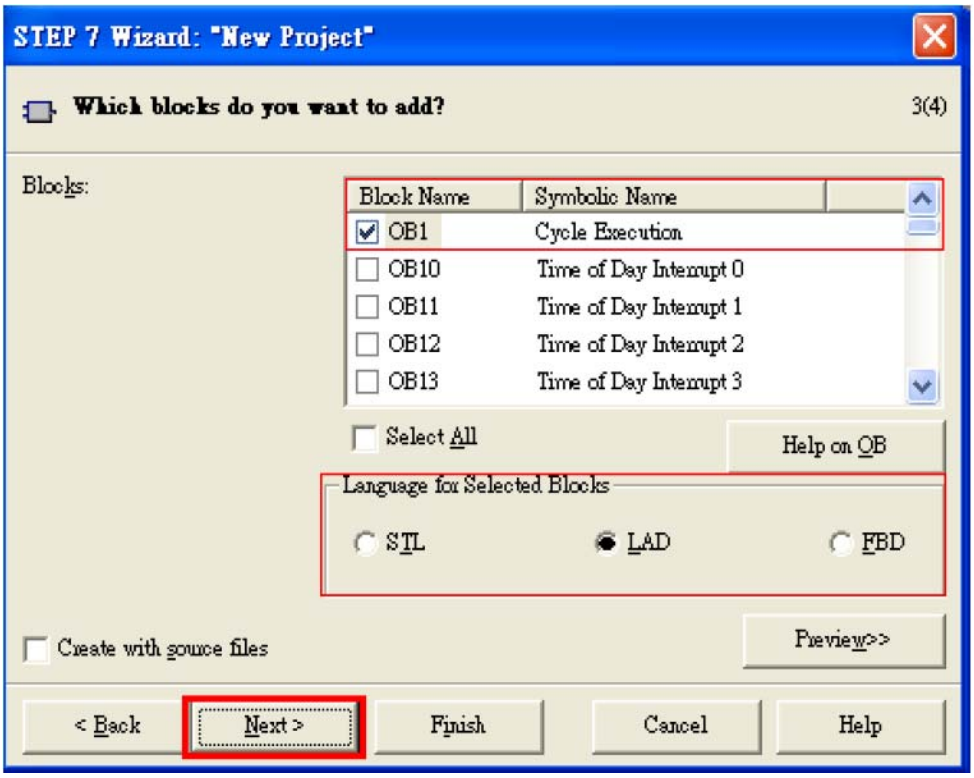


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b. Select CPU type then click ”Next”

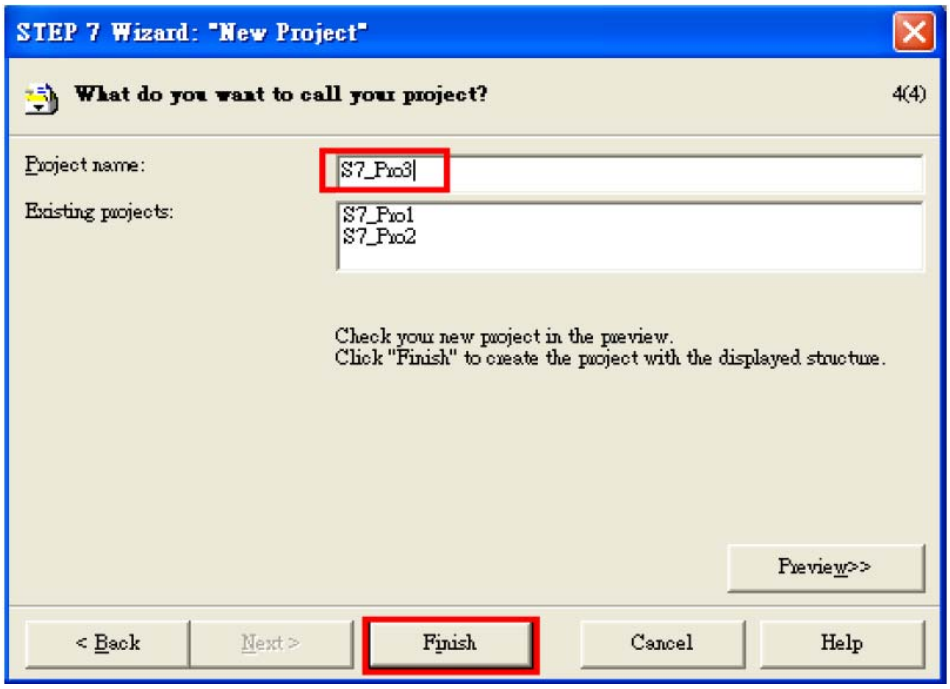


c. Select Blocks and Language for Selected Blocks then click ”Next”

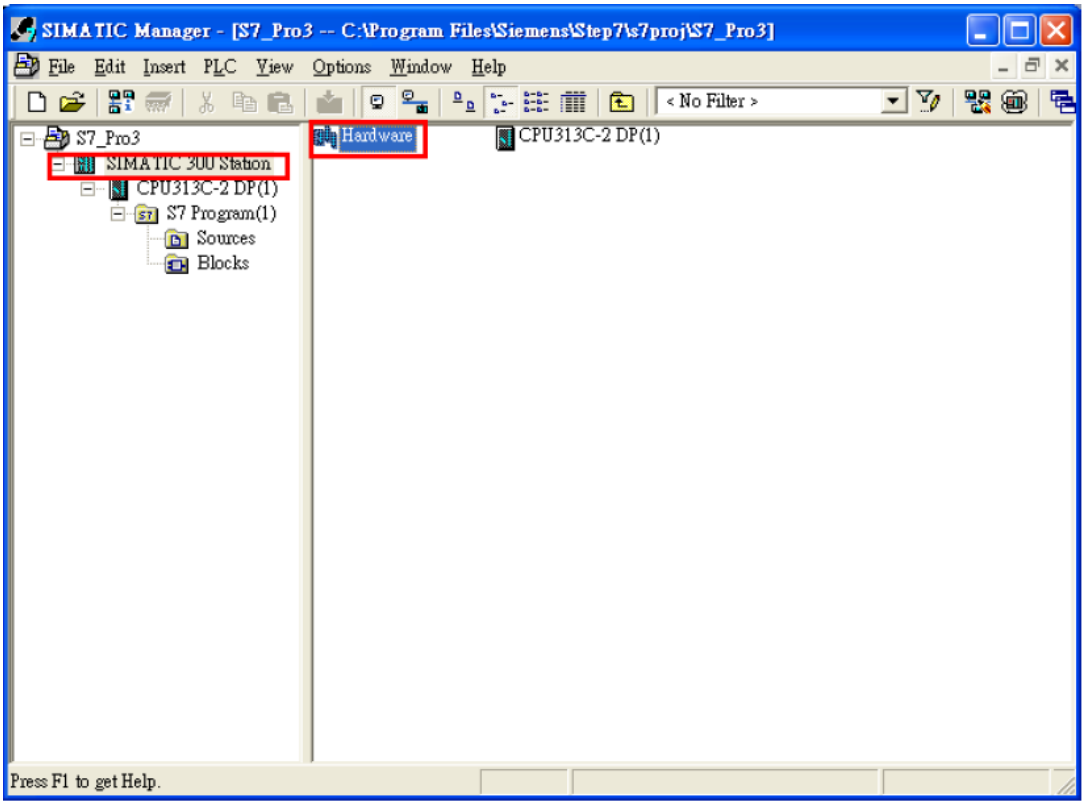


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d. Set project name then click”Finish”



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

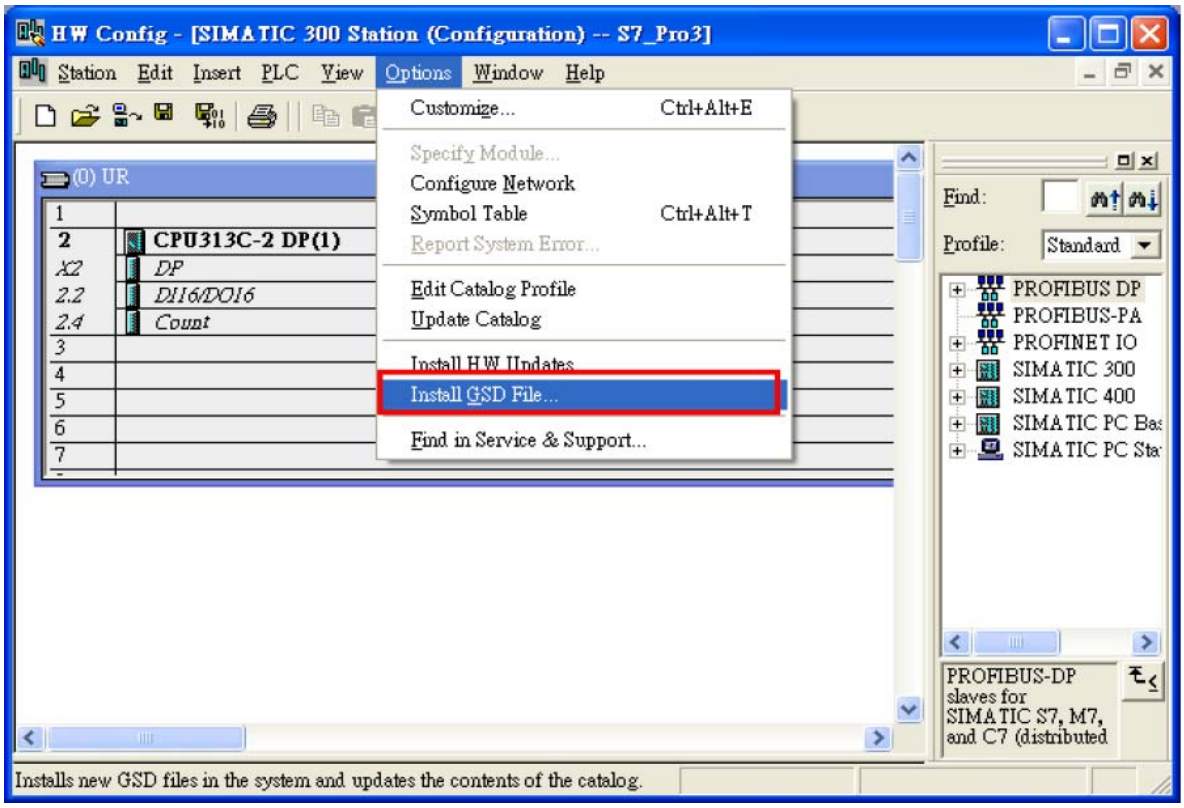


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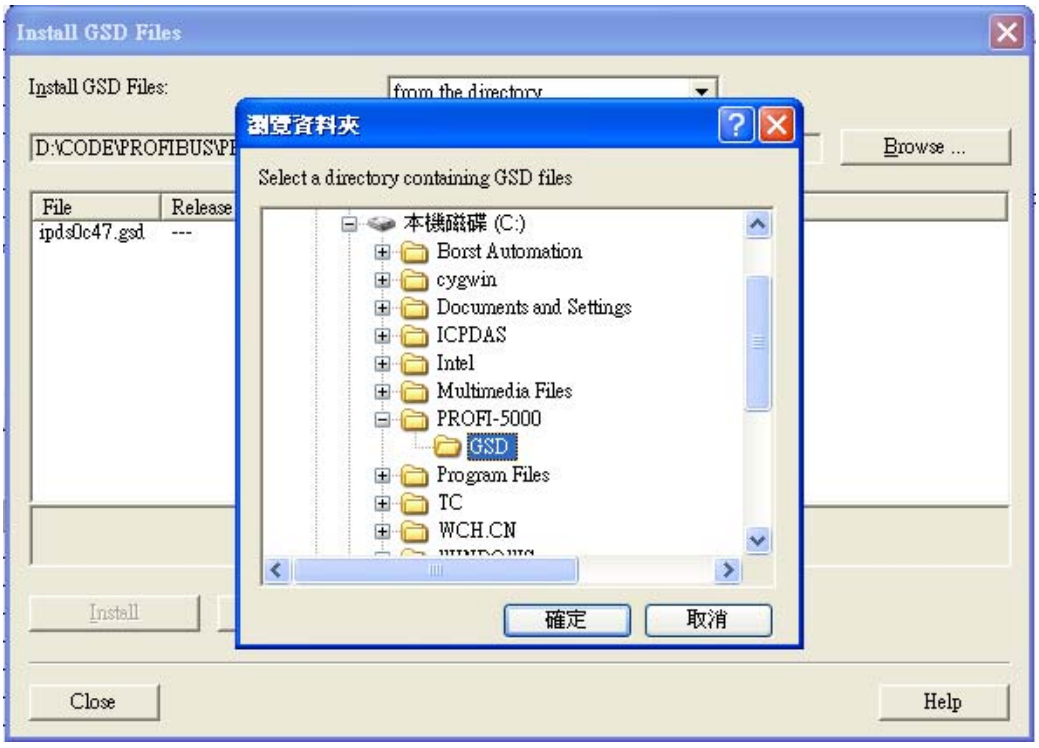
Step 5: Install PROFI-5000 GSD File

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

a. Click “Install GSD File”

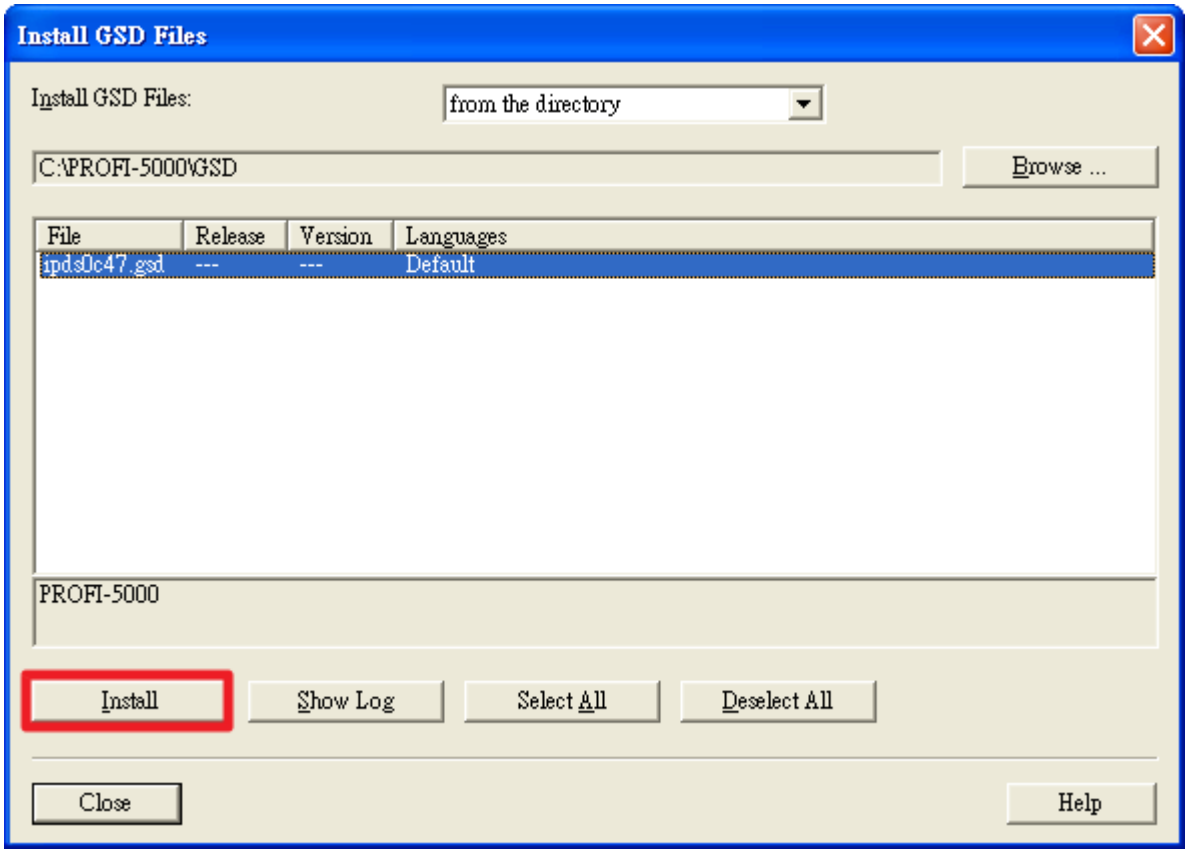


b. Select the directory of PROFI-5017C’s GSD file(ipds0c47.gsd) and click “OK”

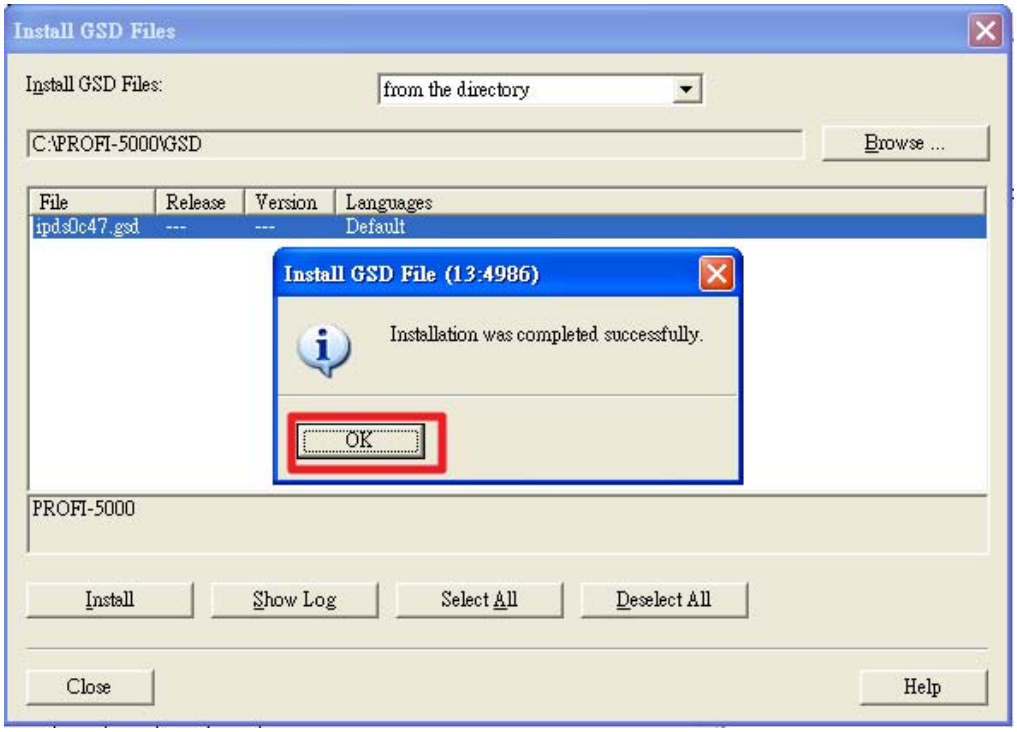


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c. Click “Install”



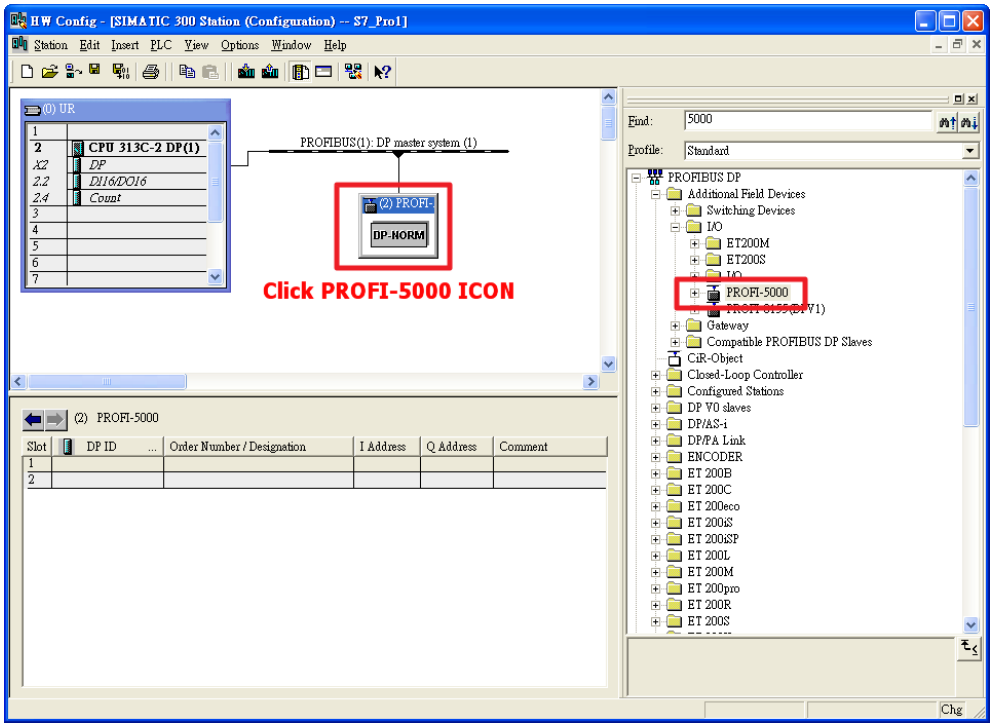
d. Click “OK”



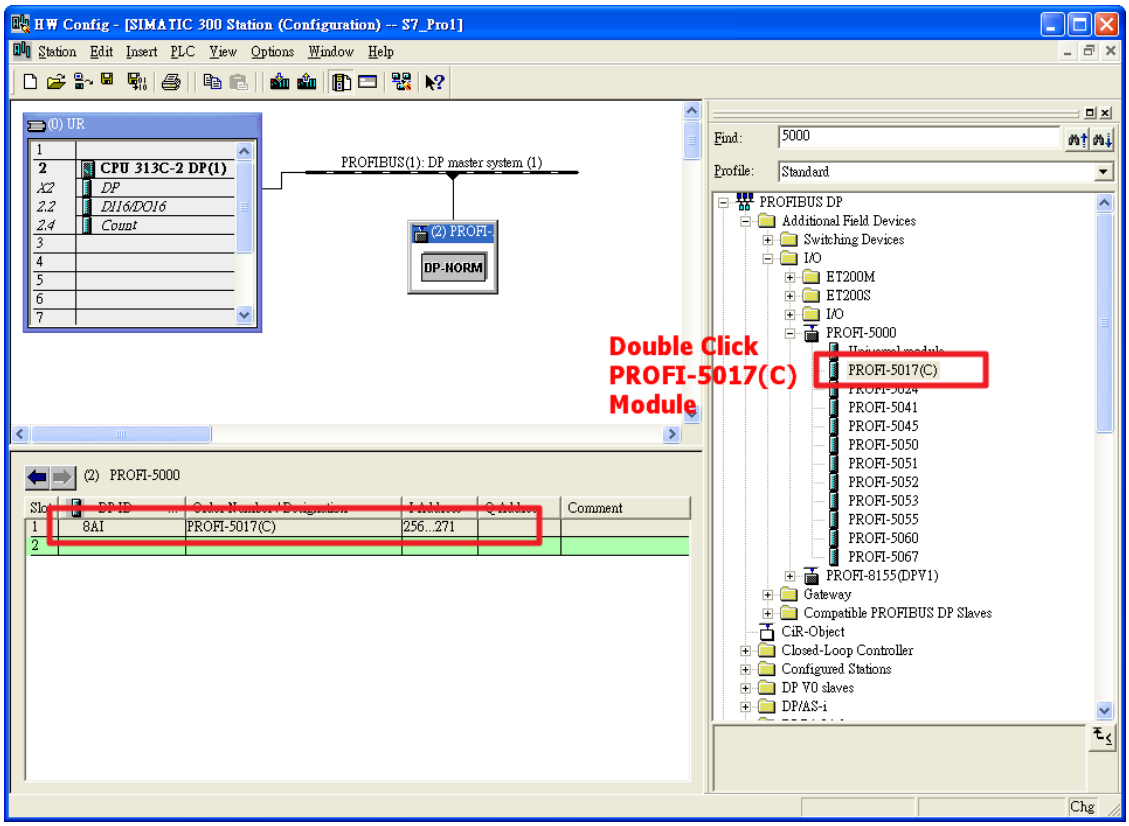
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Step 6: Setup the PROFI-5017C module

a. Select PROFI-5000 module



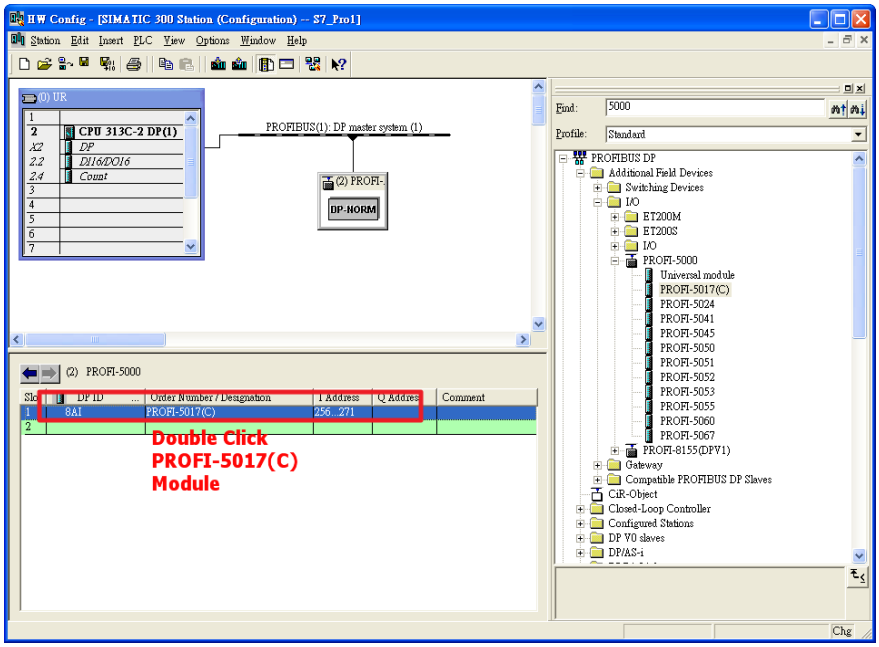
b. Add a “PROFI-5017(C) module”



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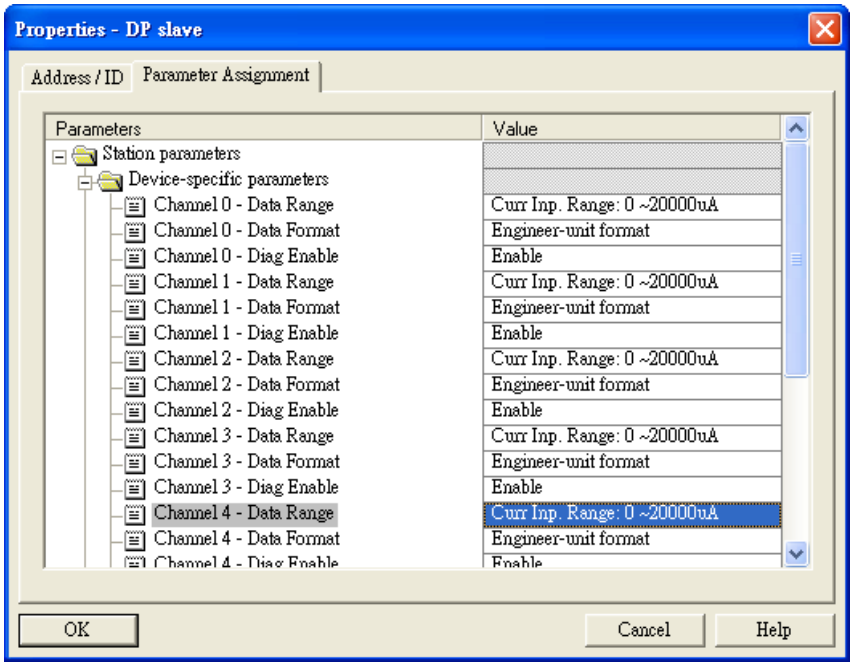
Step 7: Setup the parameters of the PROFI-5017C

a. Double Click “PROFI-5017(C) module”



b. Select “Parameter Assignment”

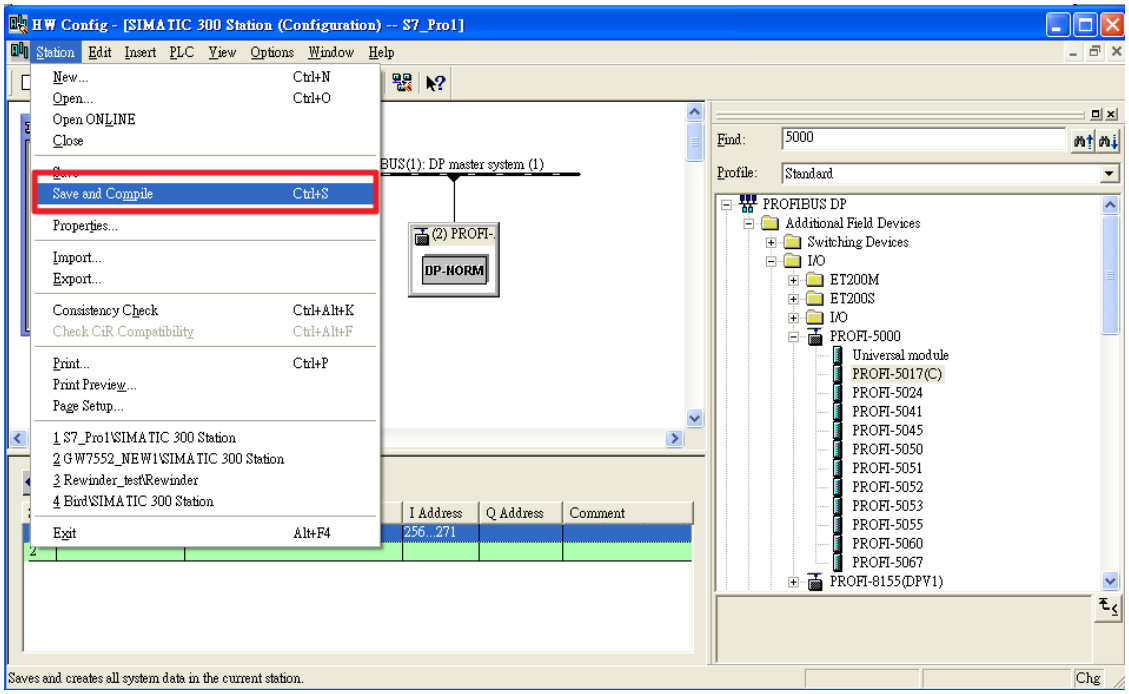
Data Range of Channel 0~Channel 7 : Curr Inp. Range: 0~20000uA



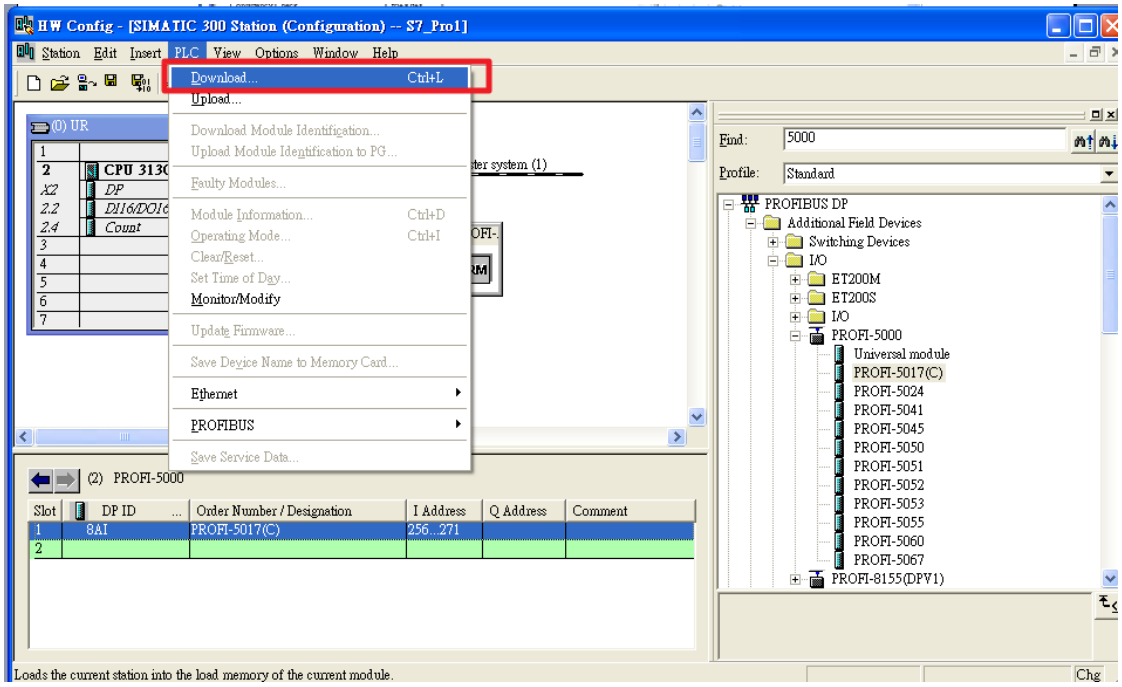
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Step 8: Download the HW settings into SIMATIC PLC

a. Save and Compile



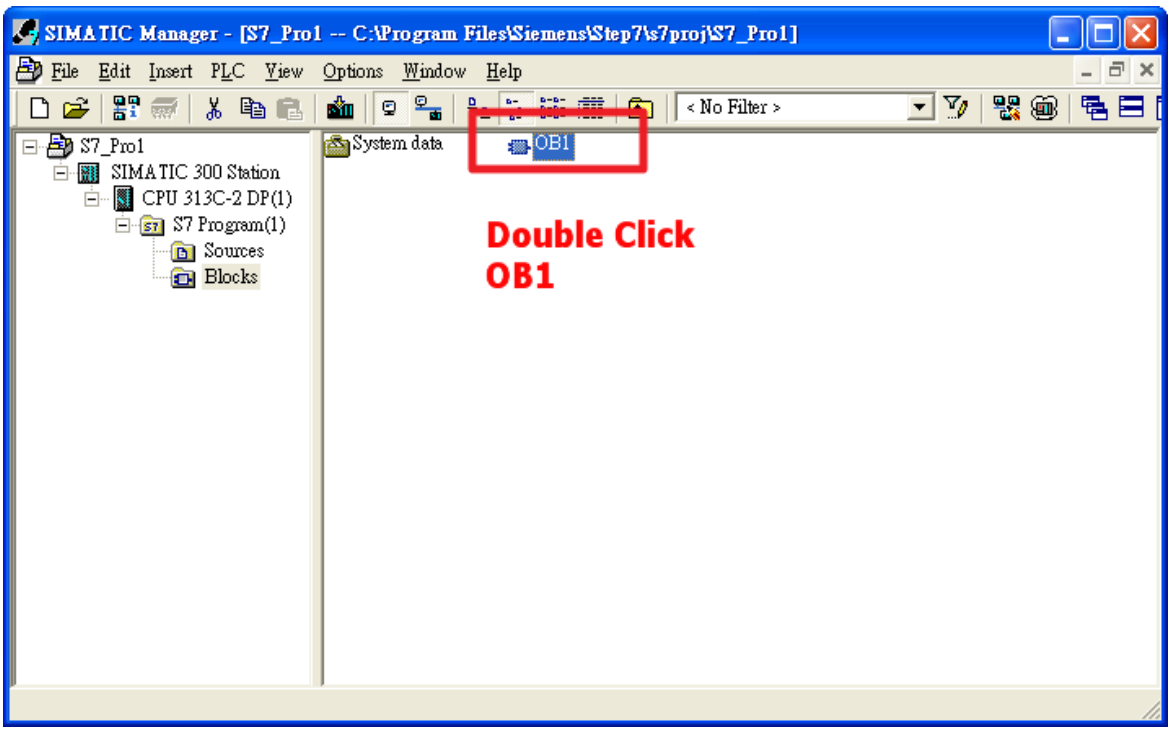
b. HW settings into SIMATIC PLC



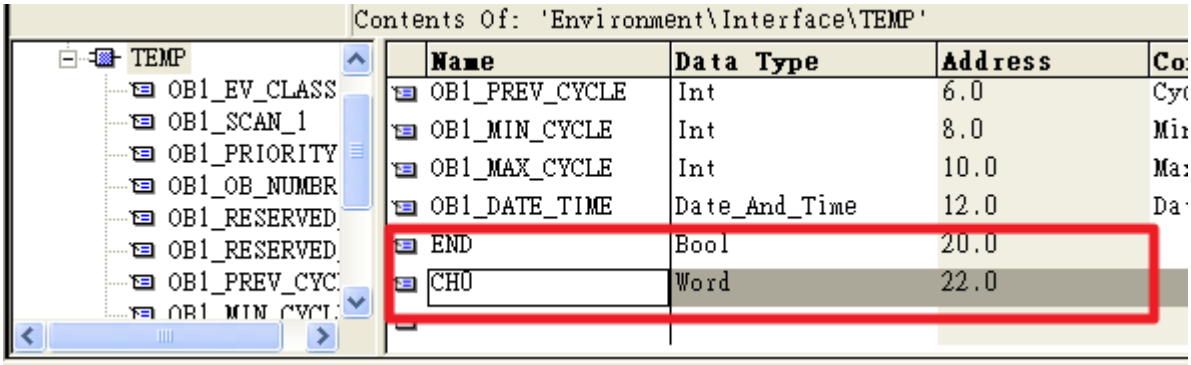
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Step 9: Edit OB1

a. Double click “OB1”



b. Variables used in the example LD Program:



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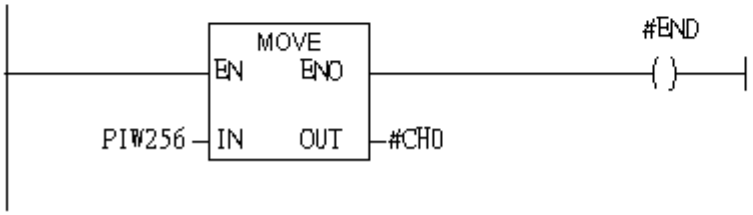
c. Program

OB1 : "Main Program Sweep (Cycle)"

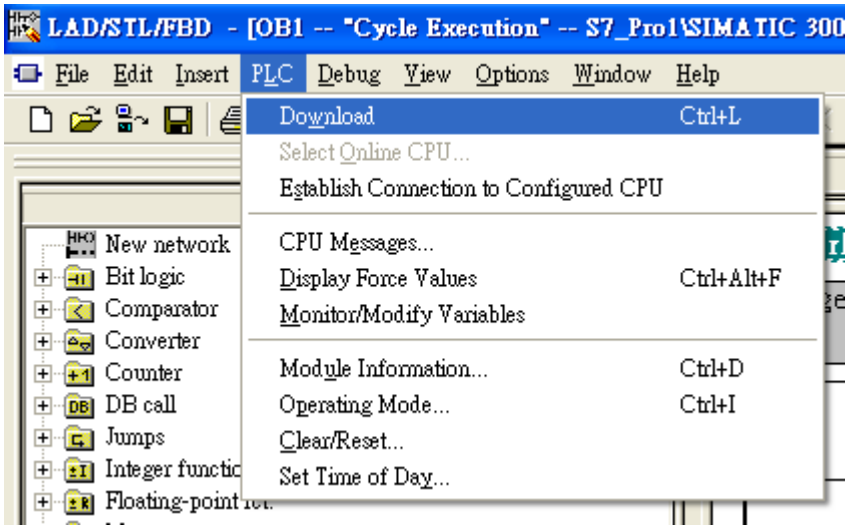
Comment:

Network 1: Receive Current

Current (10mA)



Step 10: Download the settings into SIMATIC PLC

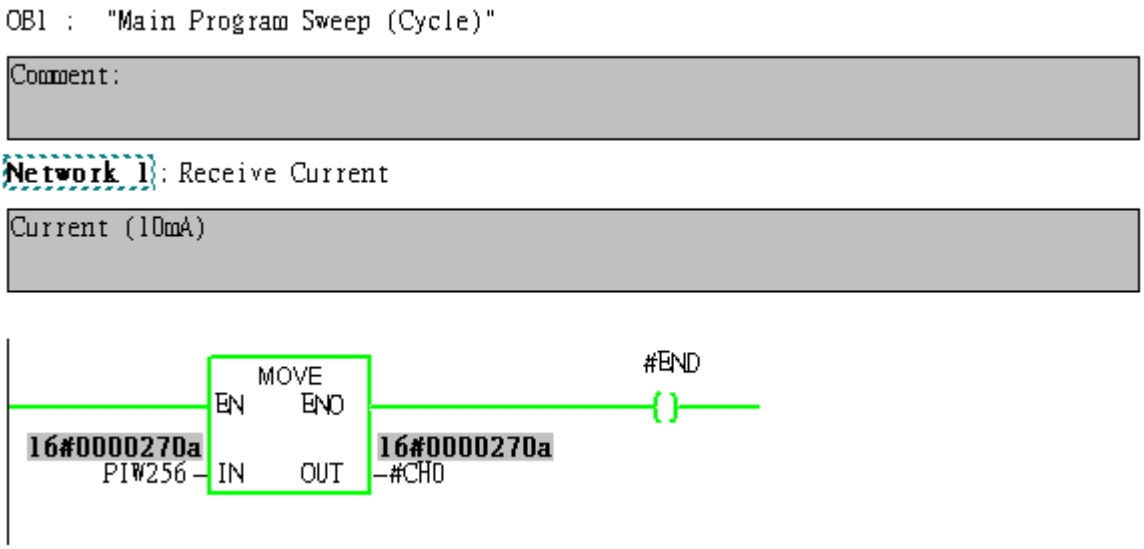


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Step 11: Make sure the RUN LED of the PROFI-5017C is ON.



Now the setting procedure has been finished and the user can read current of channel 0 at address PIW256



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