

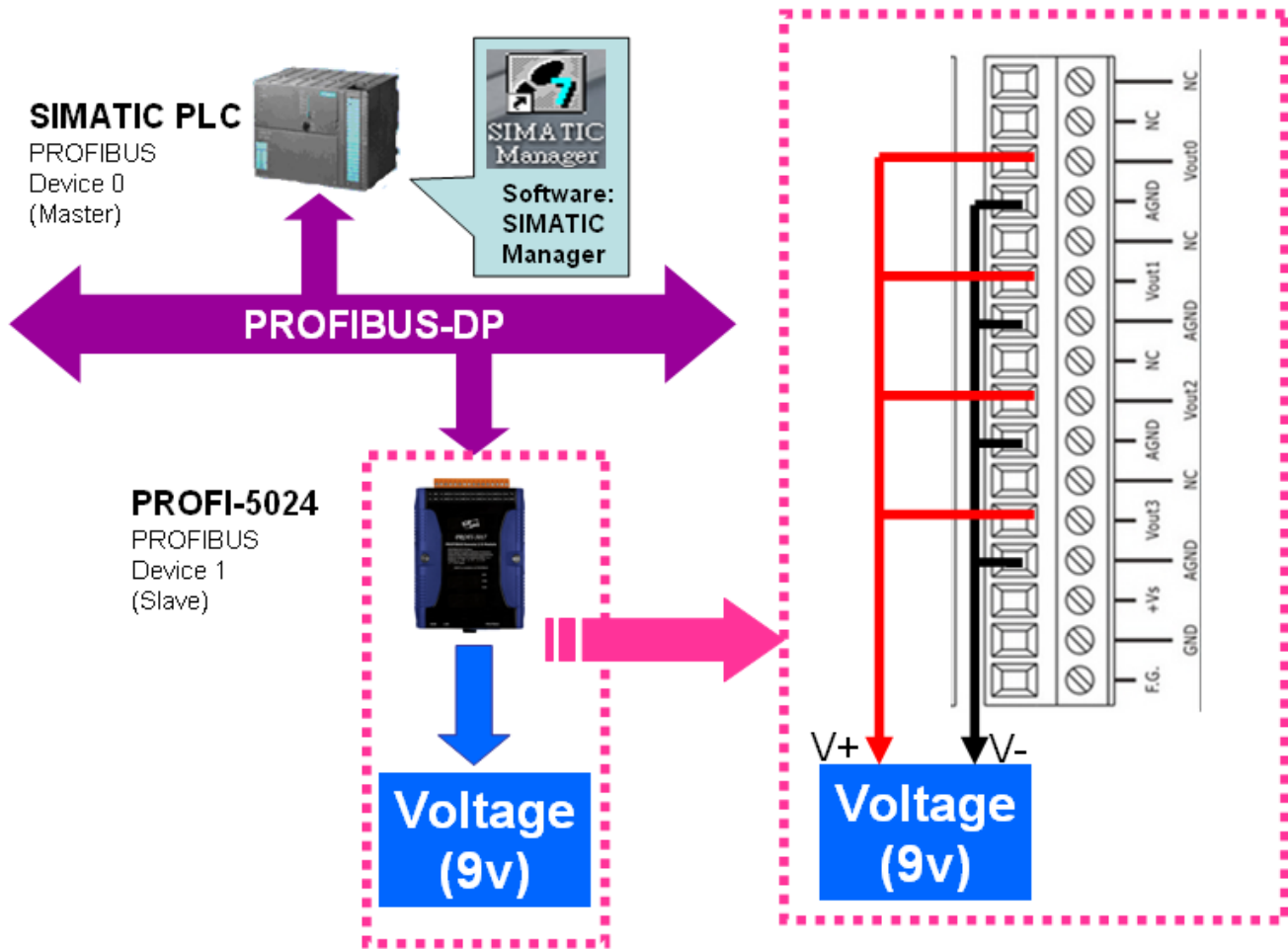
# How to send data at SIMATIC STEP 7 ?

## Voltage Output : Example 1

## Current Output : Example 2

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

### 1. Architecture



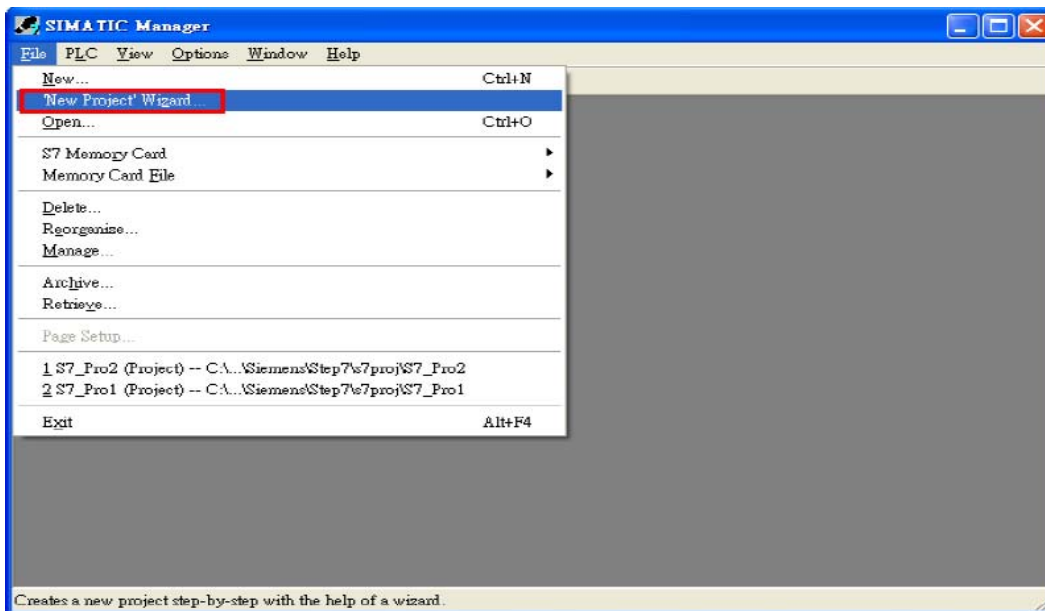
“Follow the below steps to establish the system!”

## 2.SIMATIC STEP7 Configuration:

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

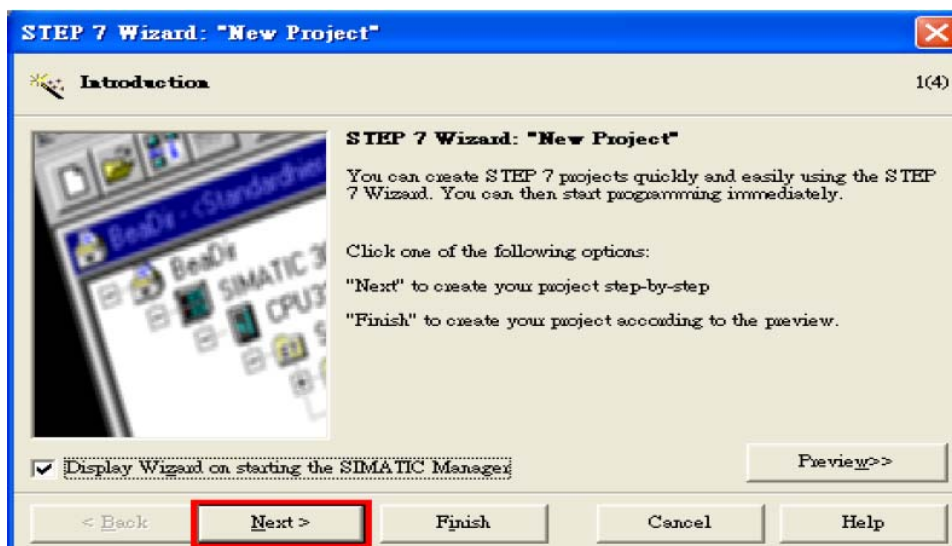


Step 2: Open “ New Project Wizard “

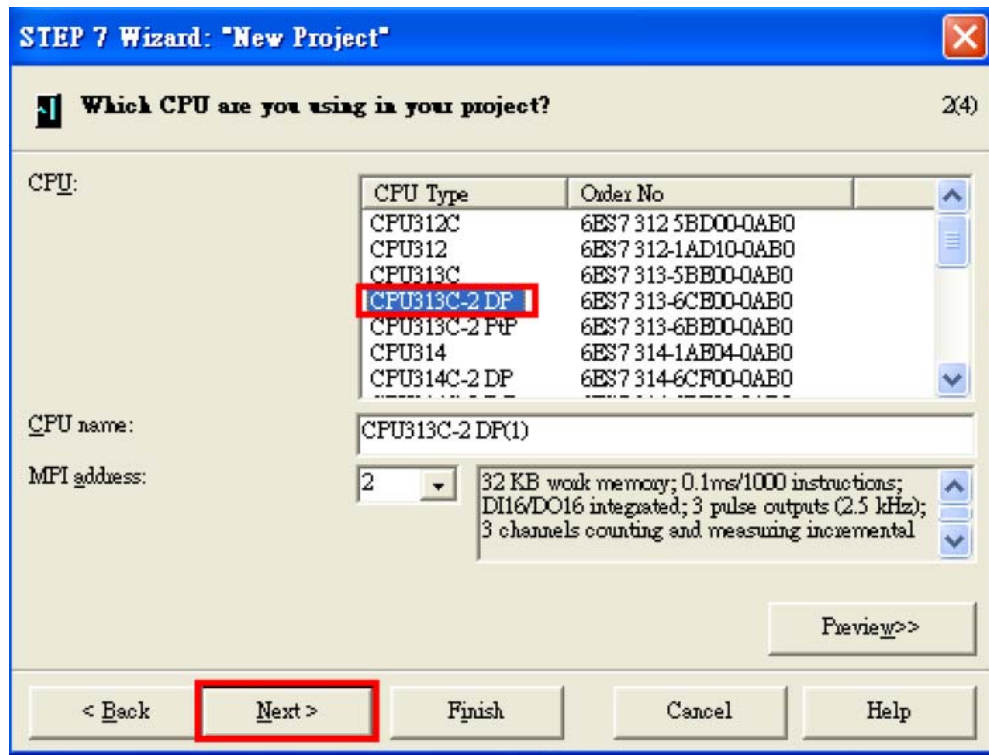


Step 3: Set up Project

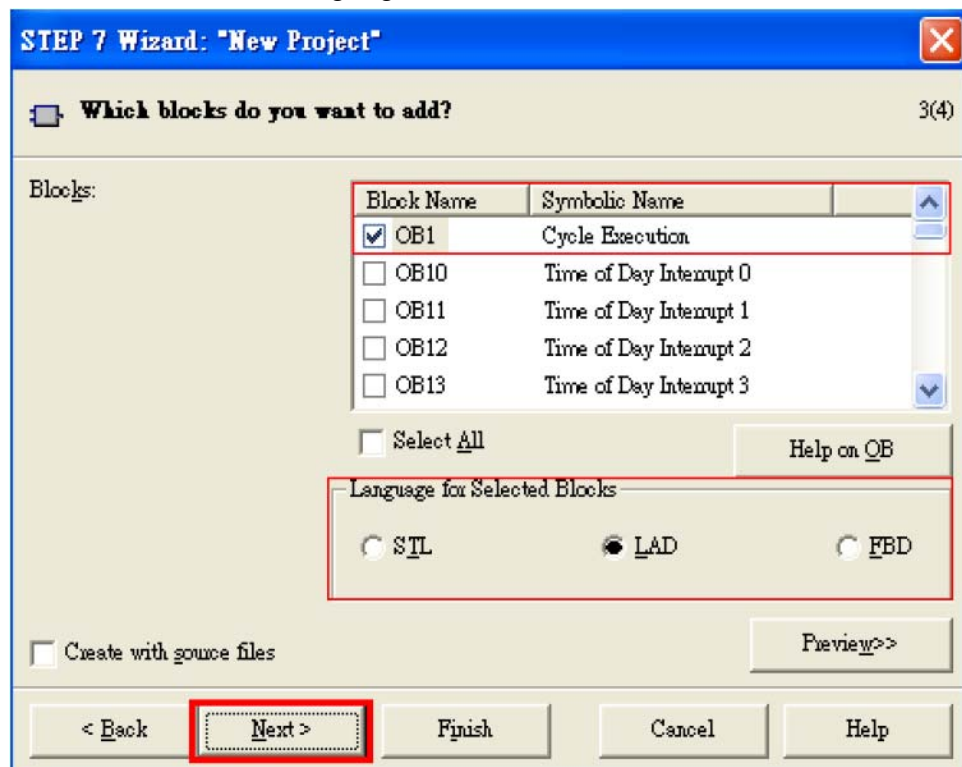
a. Click “Next”



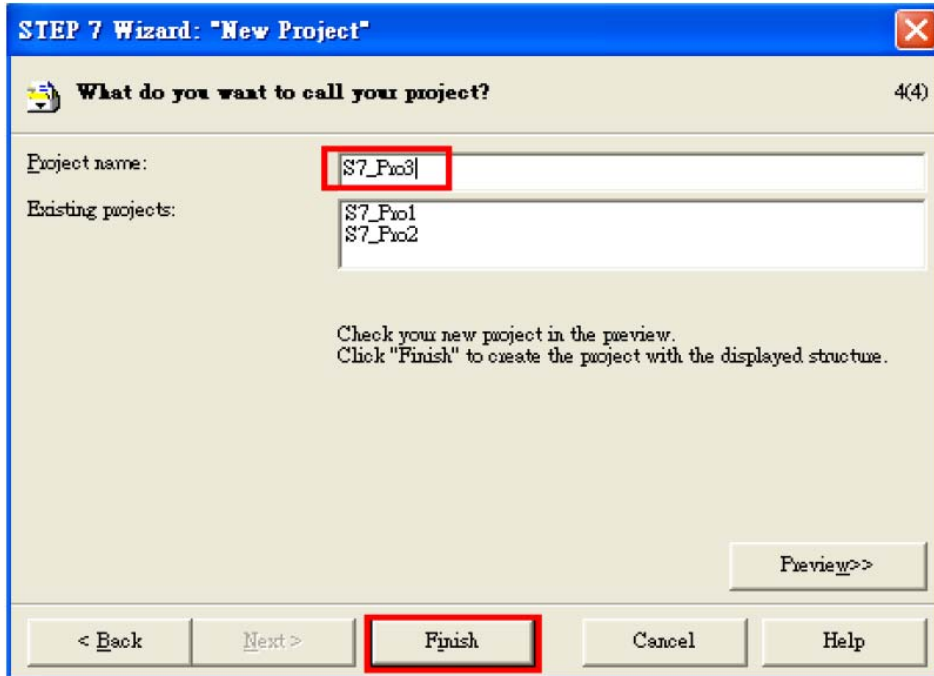
b. Select CPU type then click "Next"



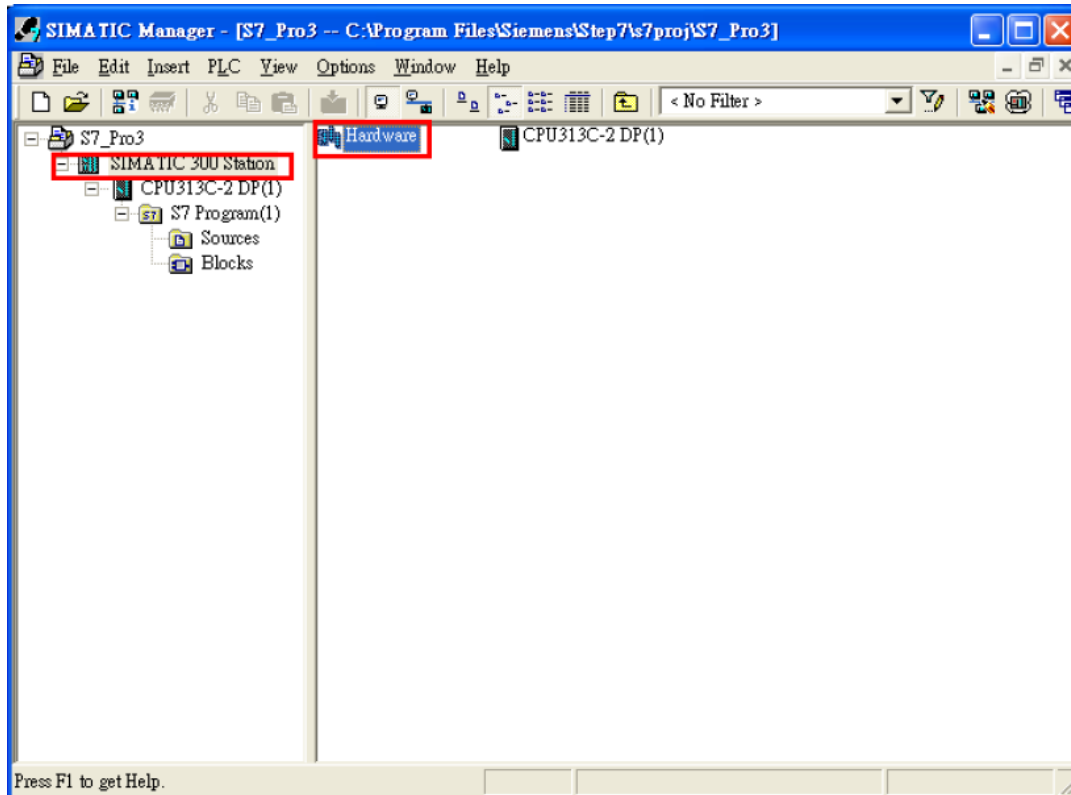
c. Select Blocks and Language for Selected Blocks then click "Next"



d. Set project name then click "Finish"



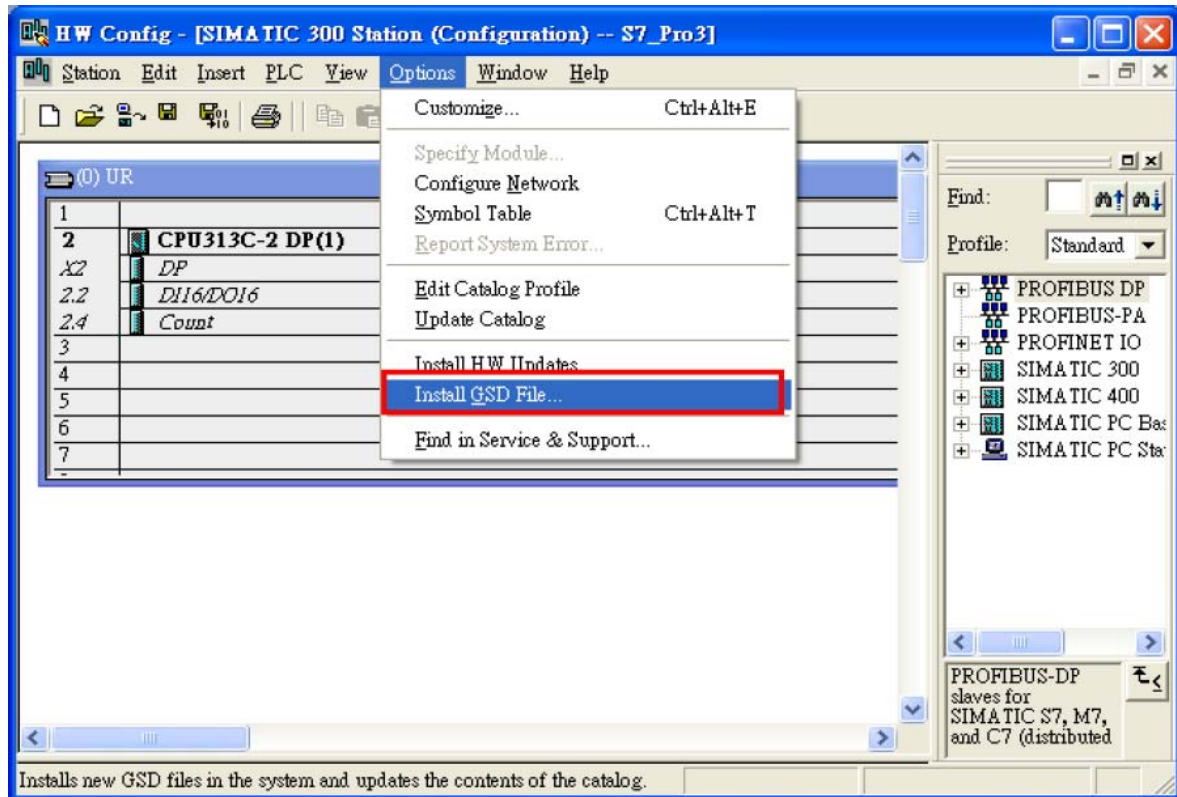
Step 4: Double click "Hardware" to open "HW Config"



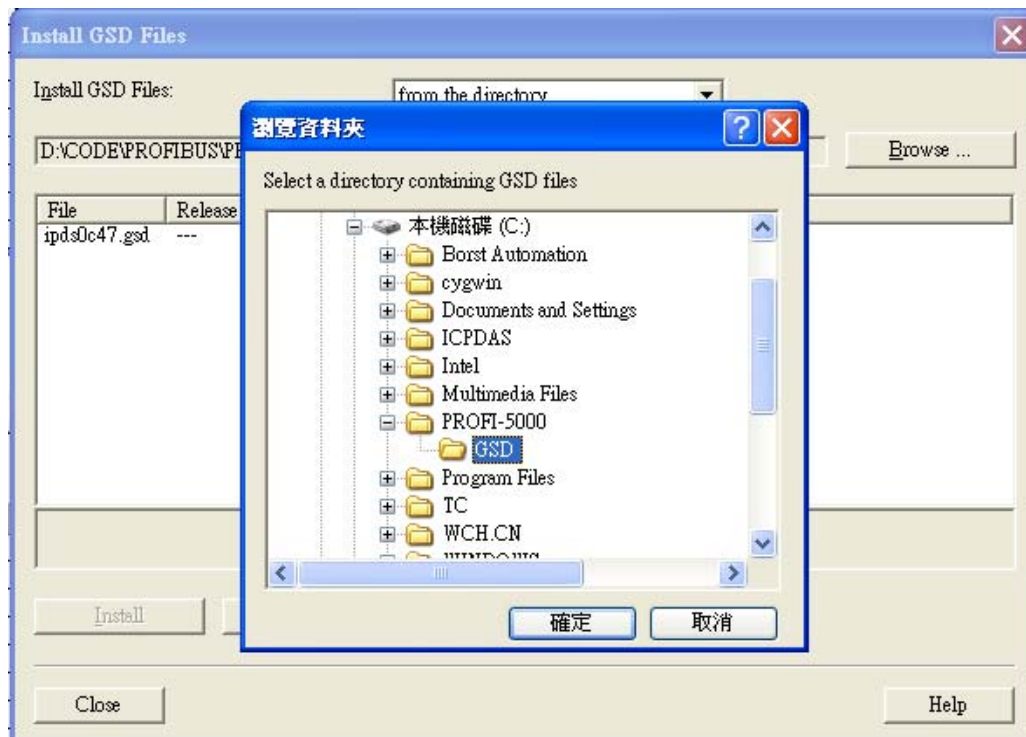
## Step 5: Install PROFI-5000 GSD File

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/profibus/remote%20io/profi-5000/gsd/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/remote%20io/profi-5000/gsd/)

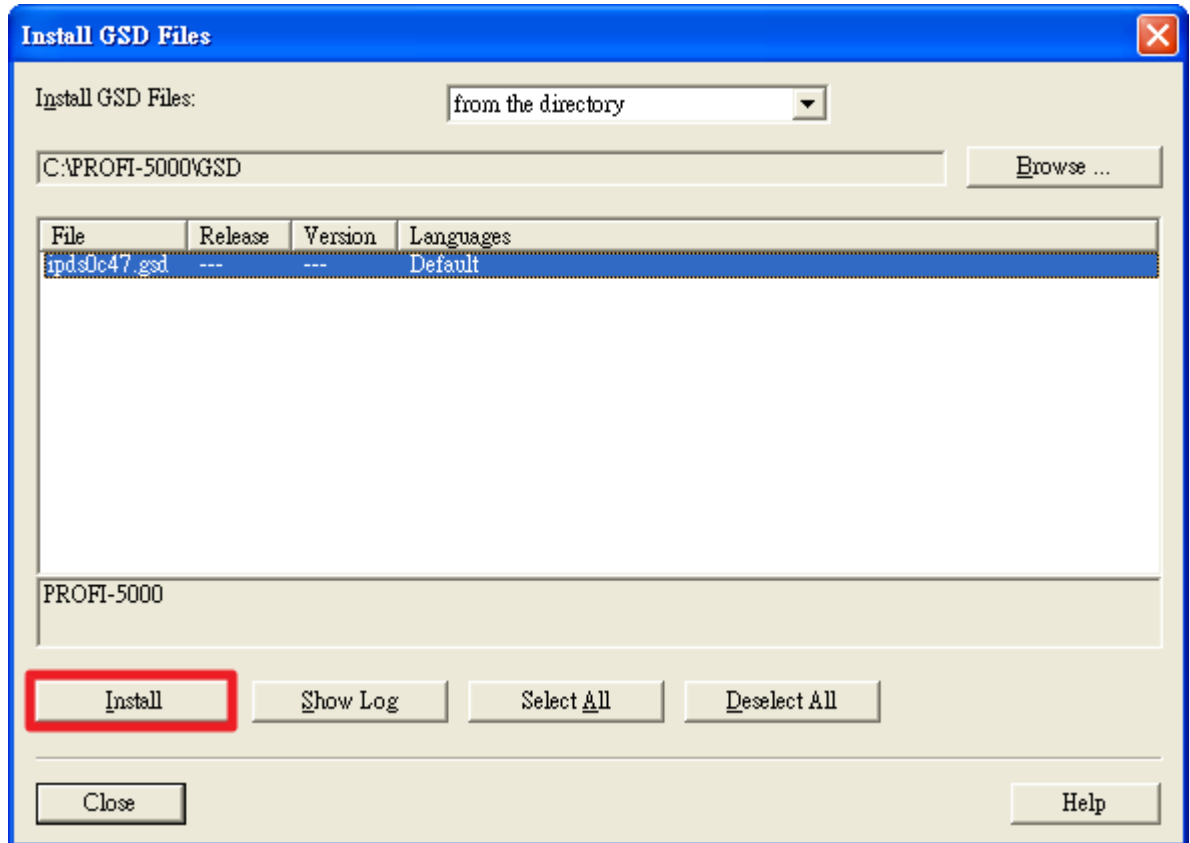
a. Click "Install GSD File"



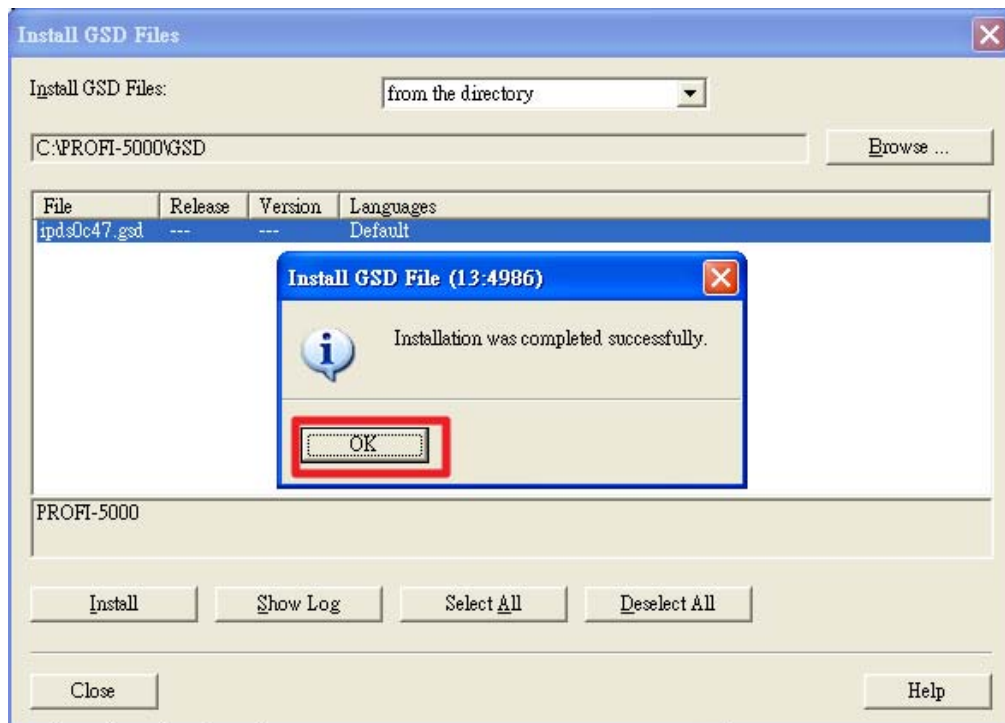
b. Select the directory of PROFI-5017's GSD file(ipds0c47.gsd) and click "OK"



c. Click "Install"

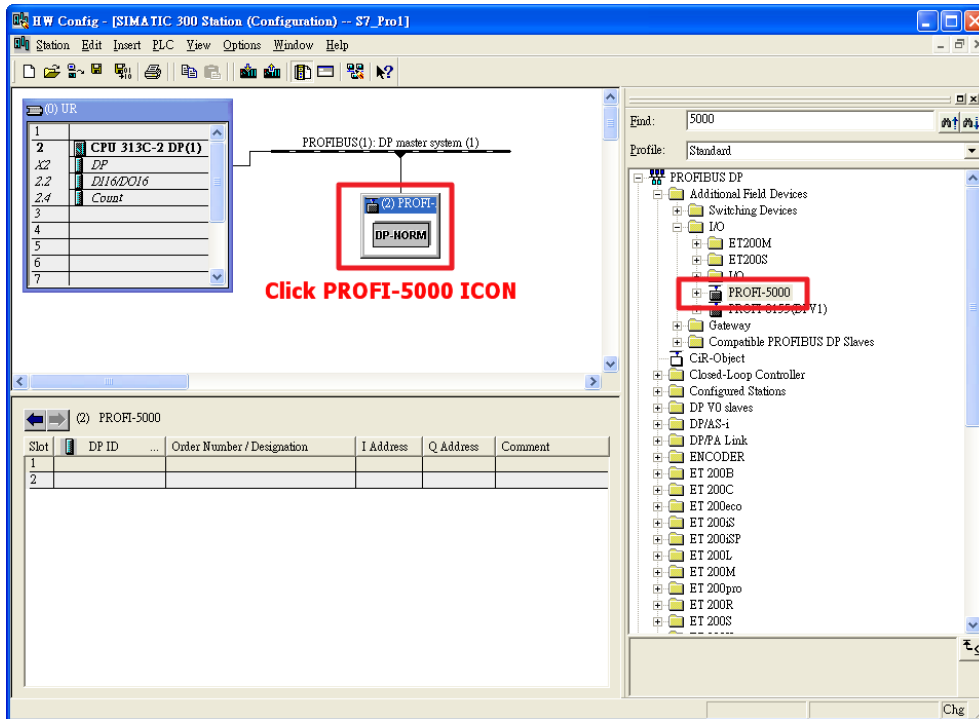


d. Click "OK"

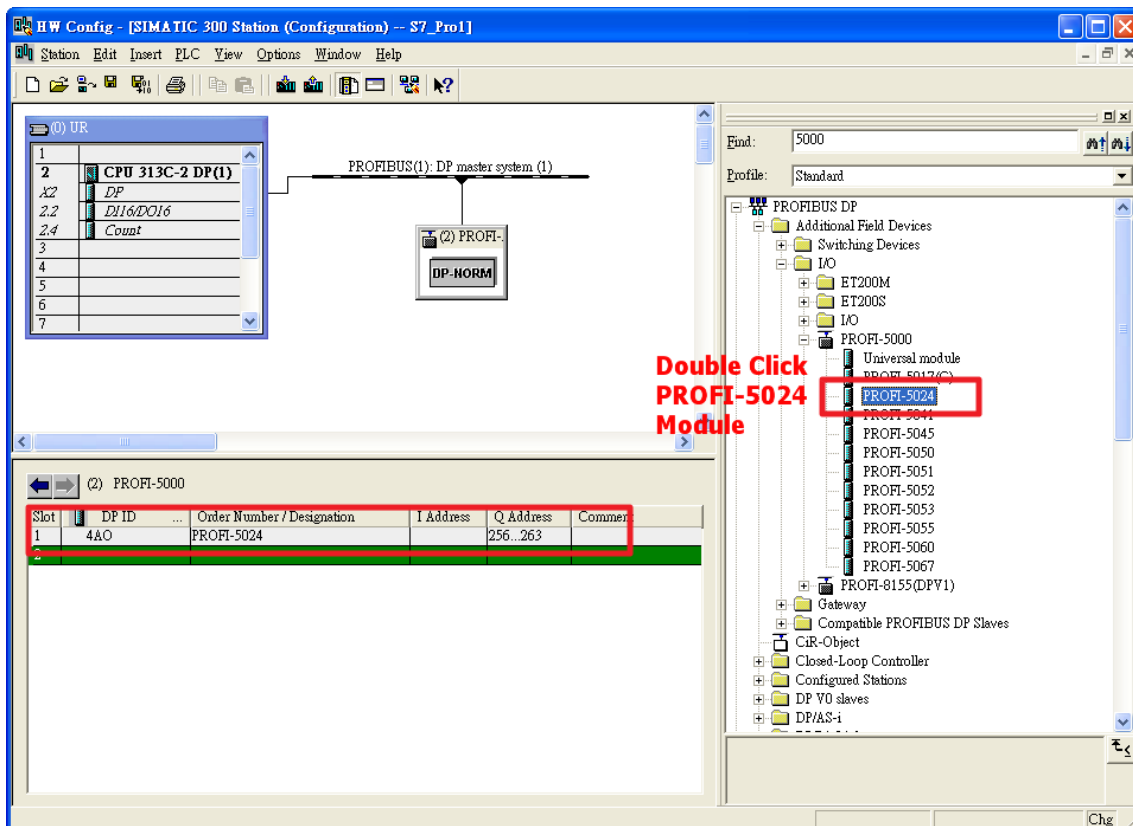


## Step 6: Setup the PROFI-5024 module

### a. Select PROFI-5000 module



### b. Add a "PROFI-5024 module"



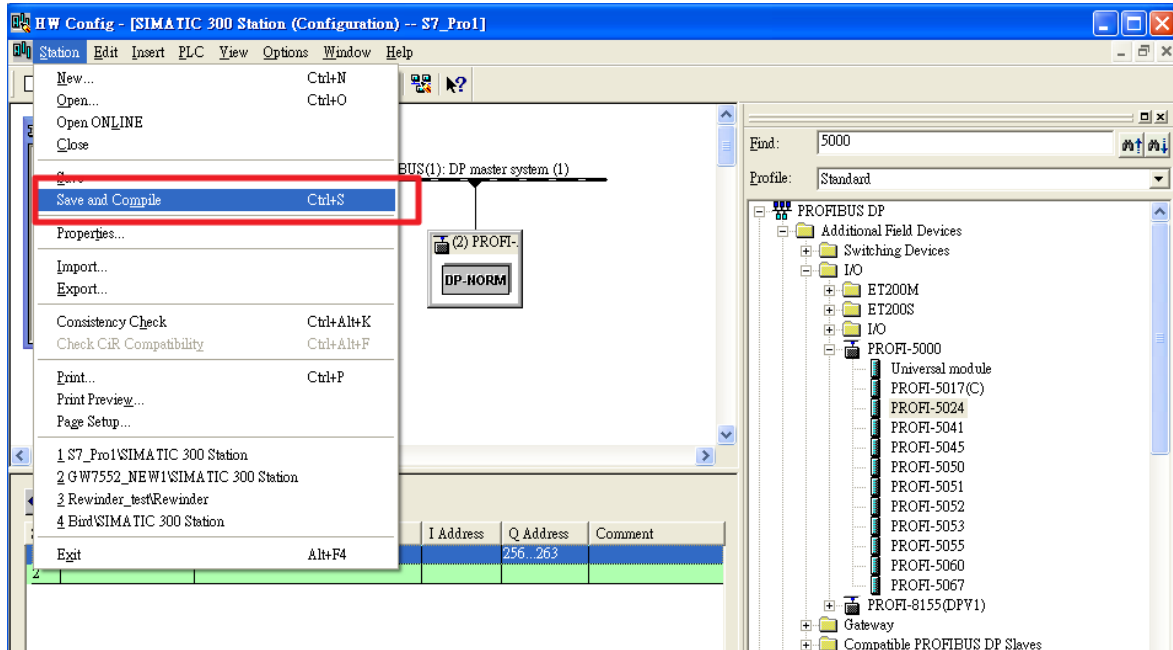


## Step 7: Setup the parameters of the PROFI-5024

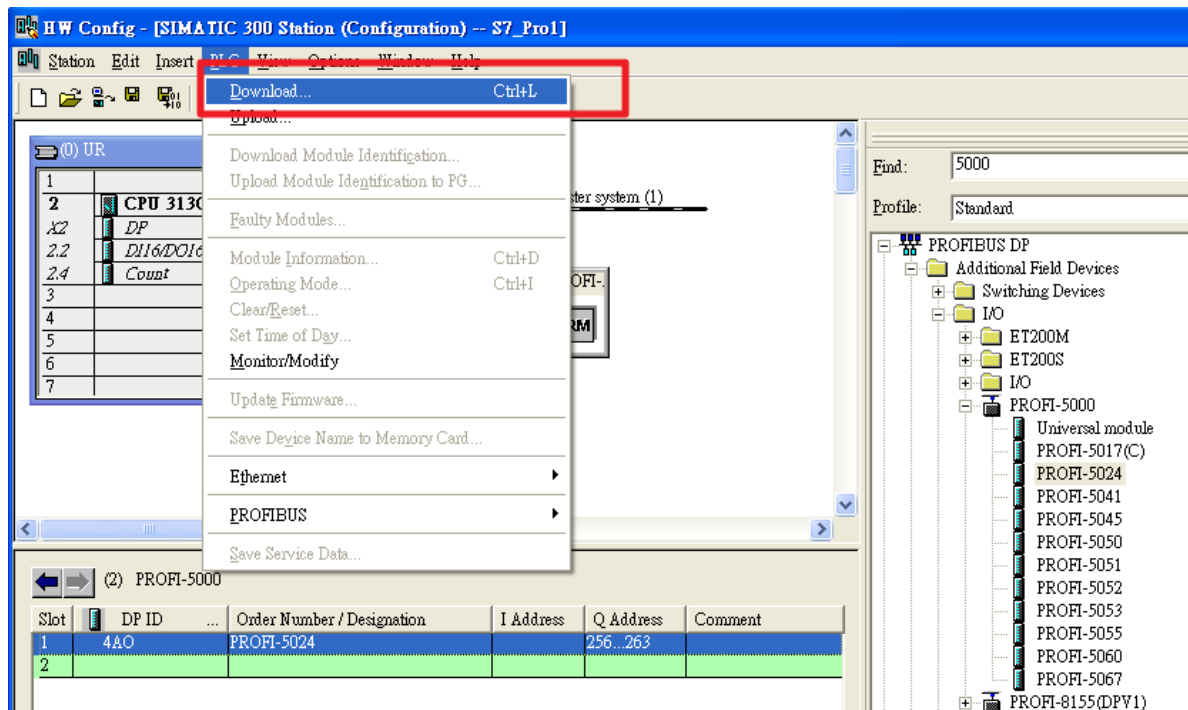
Use the default setting

## Step 8: Download the HW settings into SIMATIC PLC

### a. Save and Compile



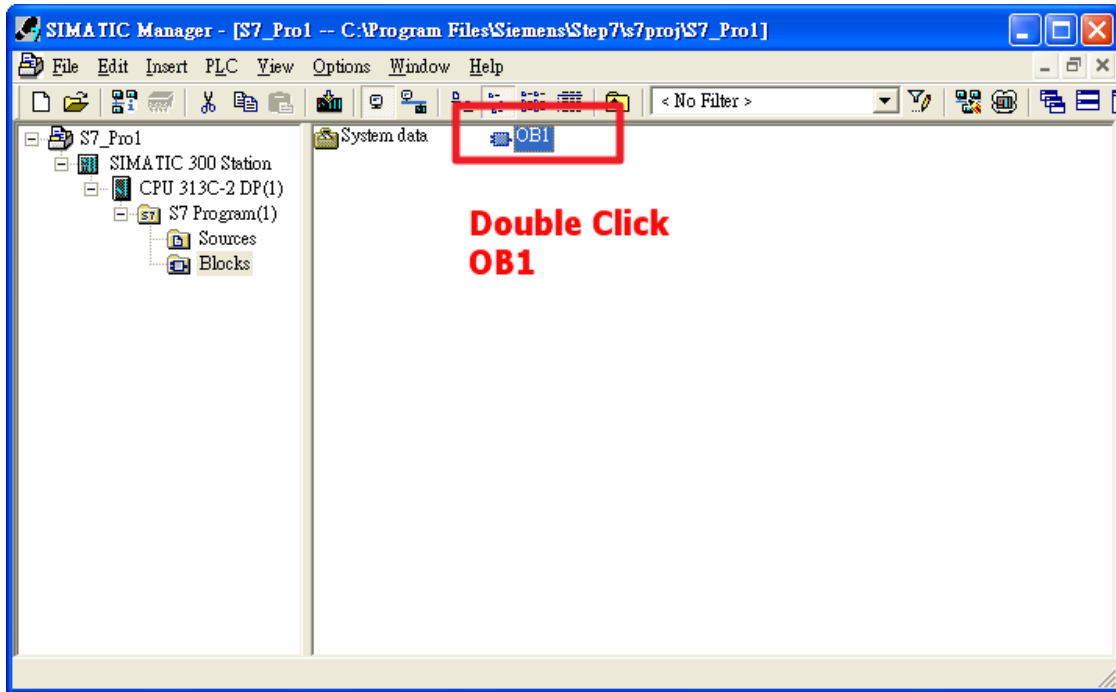
### b. HW settings into SIMATIC PLC





## Step 9: Edit OB1

a. Double click "OB1"



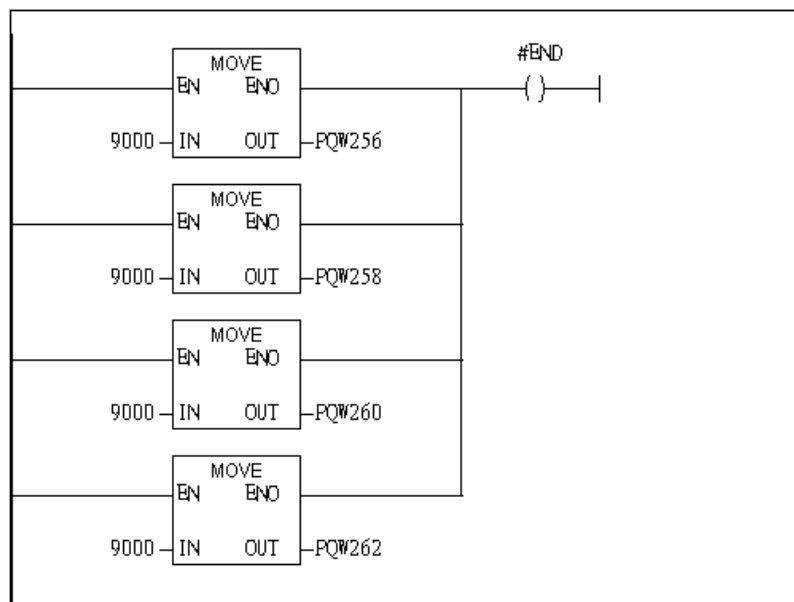
b. Program

OB1 : "Main Program Sweep (Cycle)"

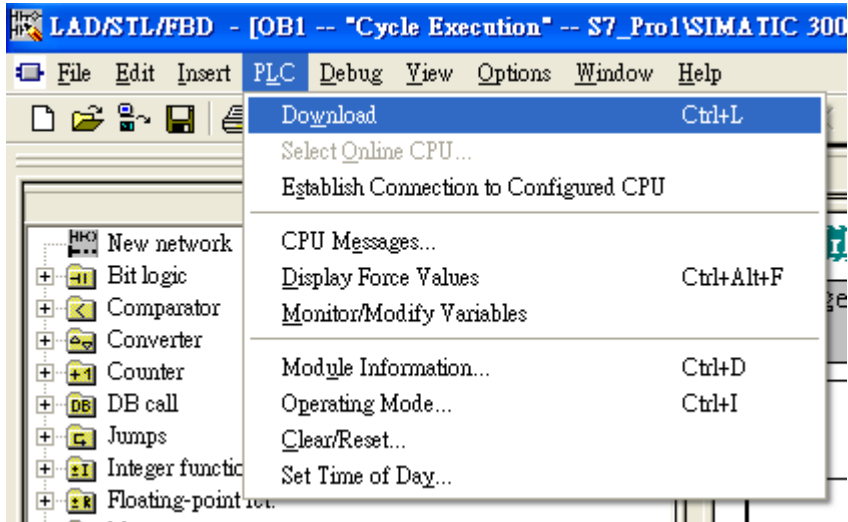
Comment:

**Network 1:** Send Voltage

Voltage (9v)



Step 10: Download the settings into SIMATIC PLC



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



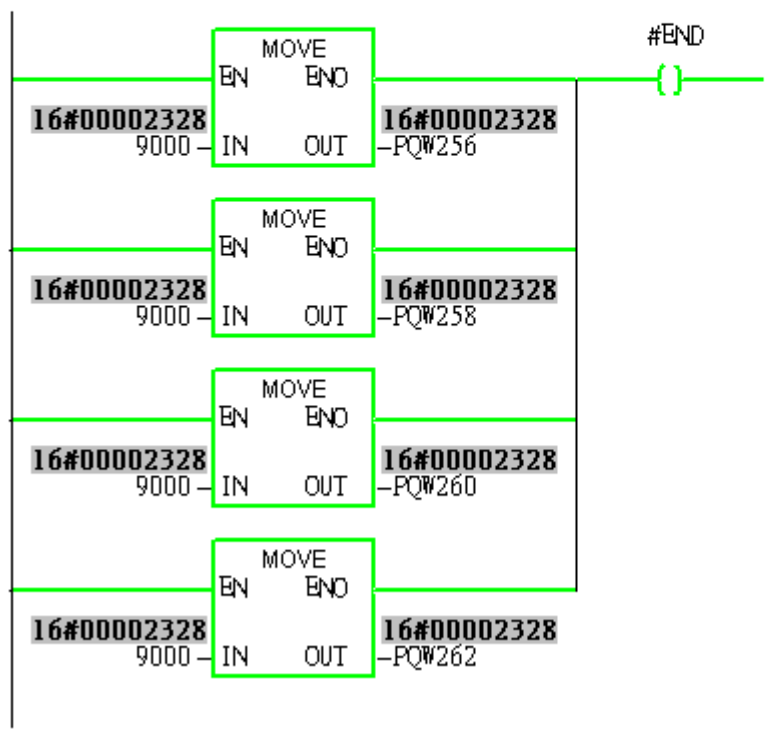
Now the setting procedure has been finished and the user can send voltage of channel 0 ~ channel 3 at address PQW256 ~ PQW 262

OB1 : "Main Program Sweep (Cycle)"

Comment:

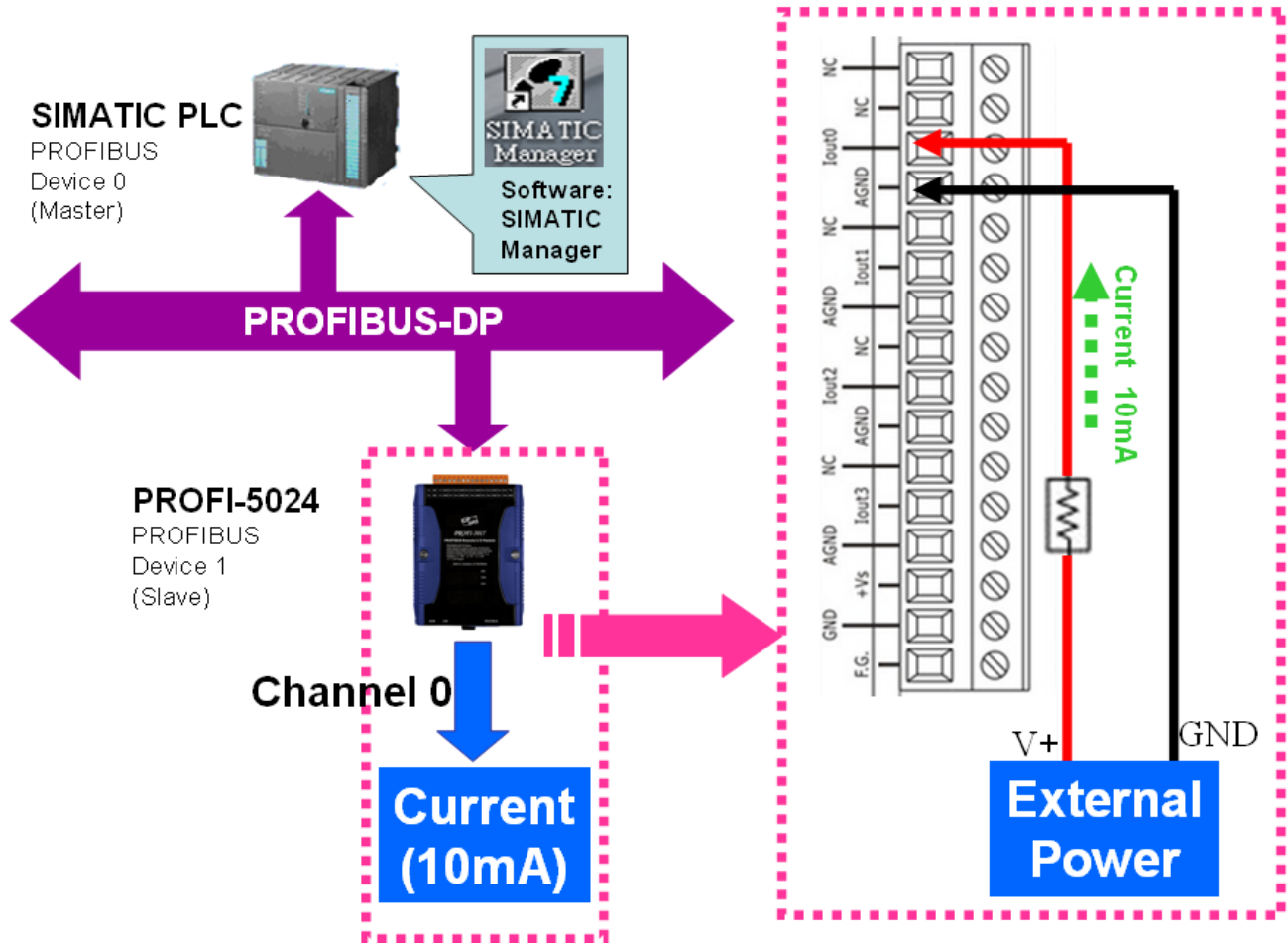
**Network 1**: Send Voltage

Voltage (9v)



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

### 1. Architecture



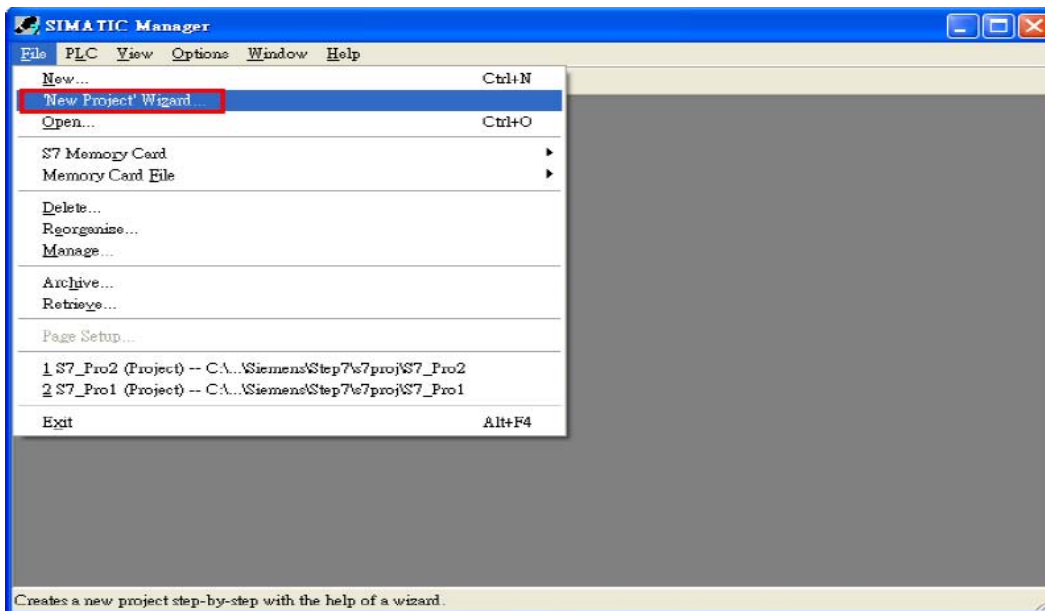
“Follow the below steps to establish the system!”

## 2.SIMATIC STEP7 Configuration:

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

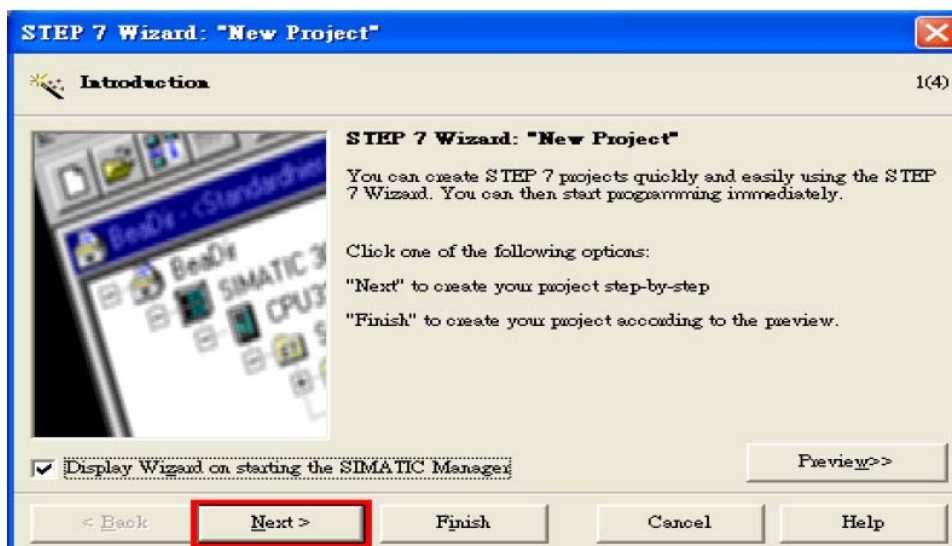


Step 2: Open “ New Project Wizard “

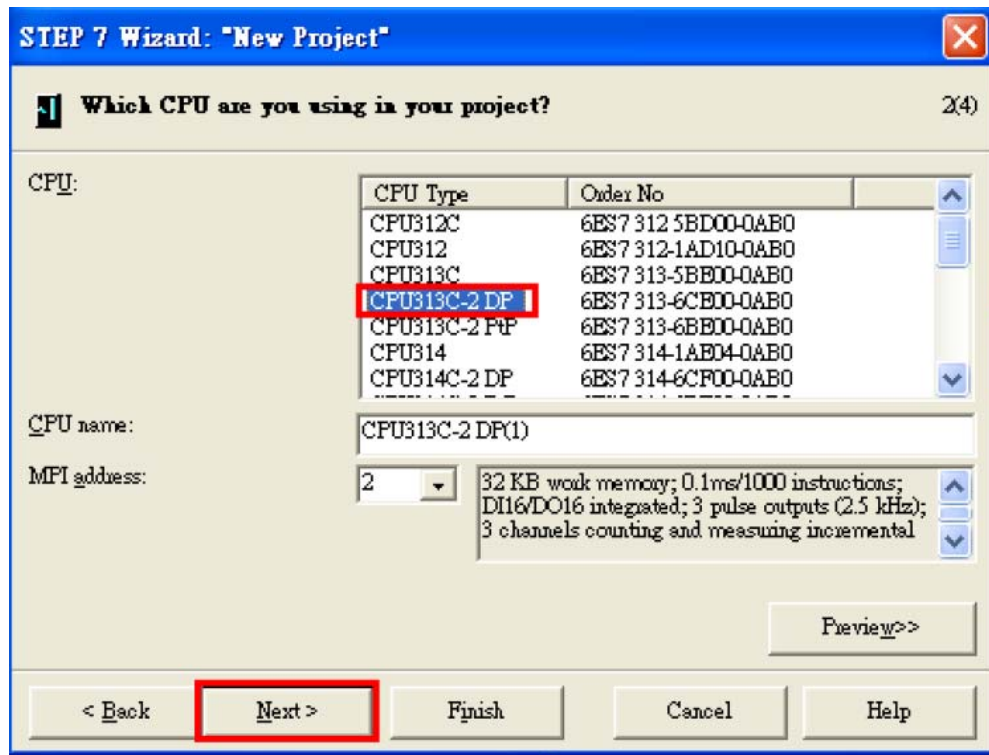


Step 3: Set up Project

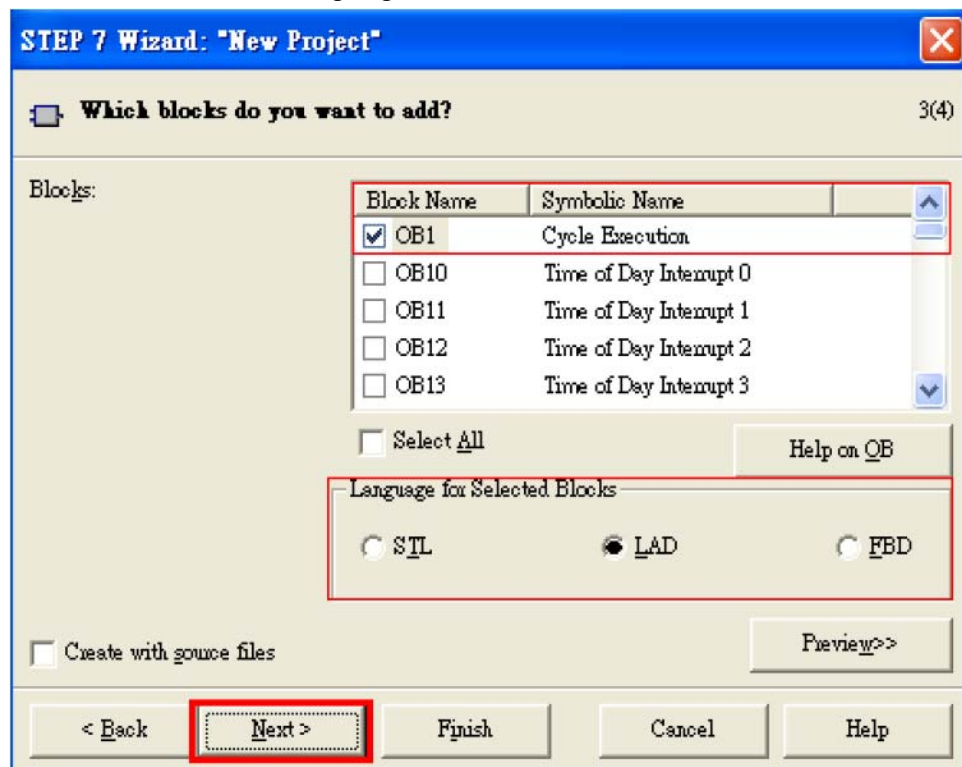
a. Click “Next”



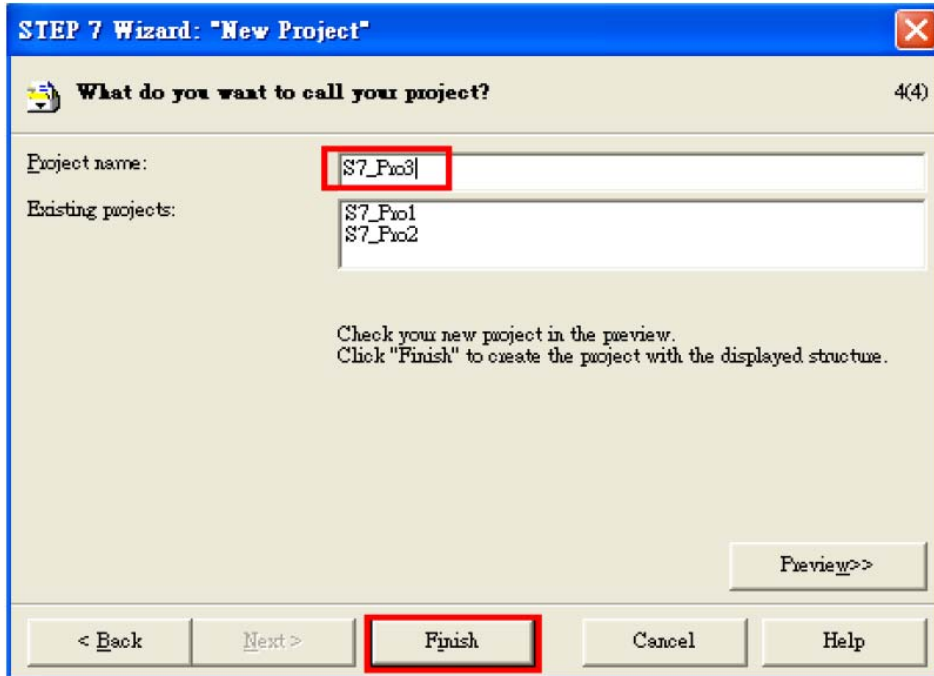
b. Select CPU type then click "Next"



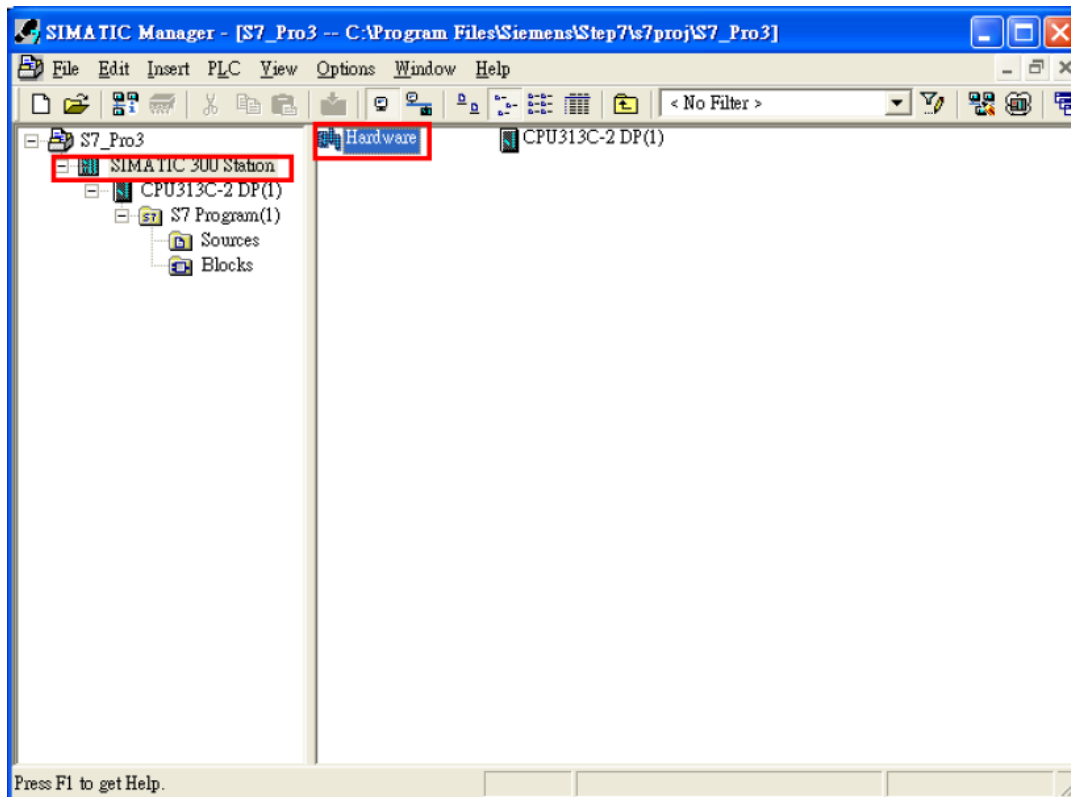
c. Select Blocks and Language for Selected Blocks then click "Next"



d. Set project name then click "Finish"



Step 4: Double click "Hardware" to open "HW Config"

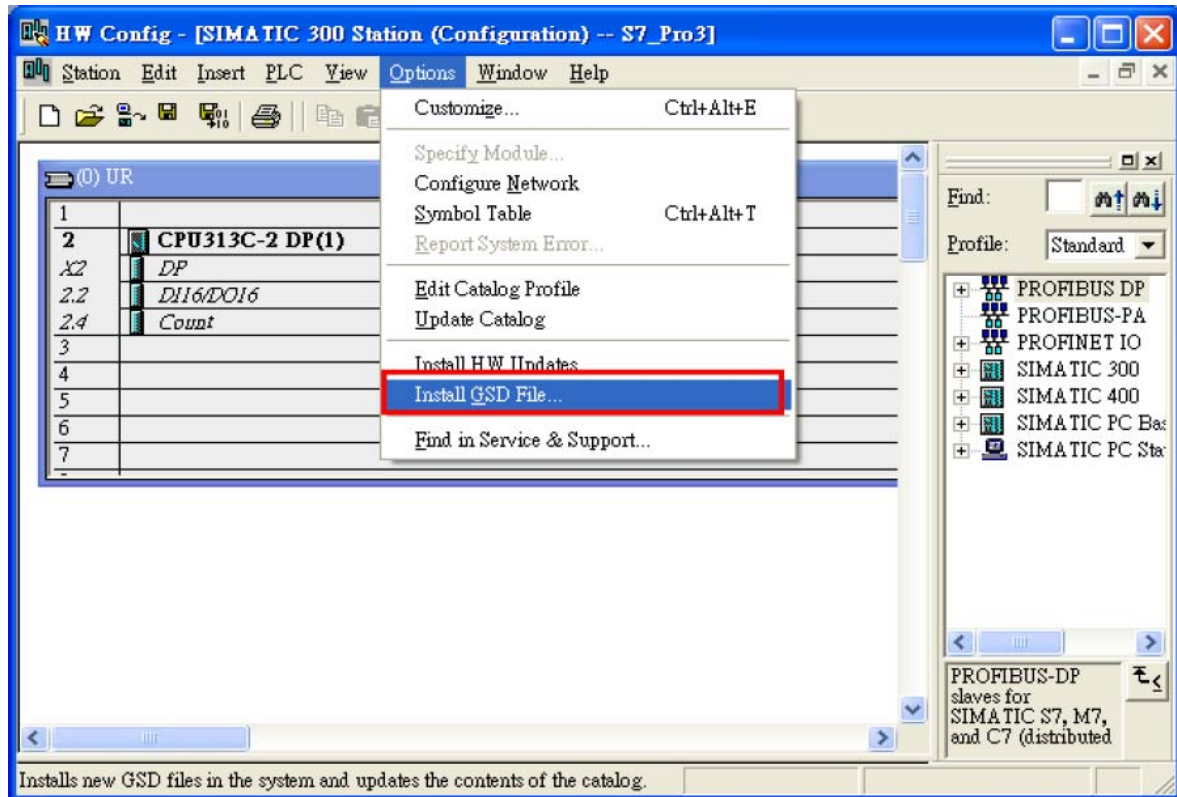




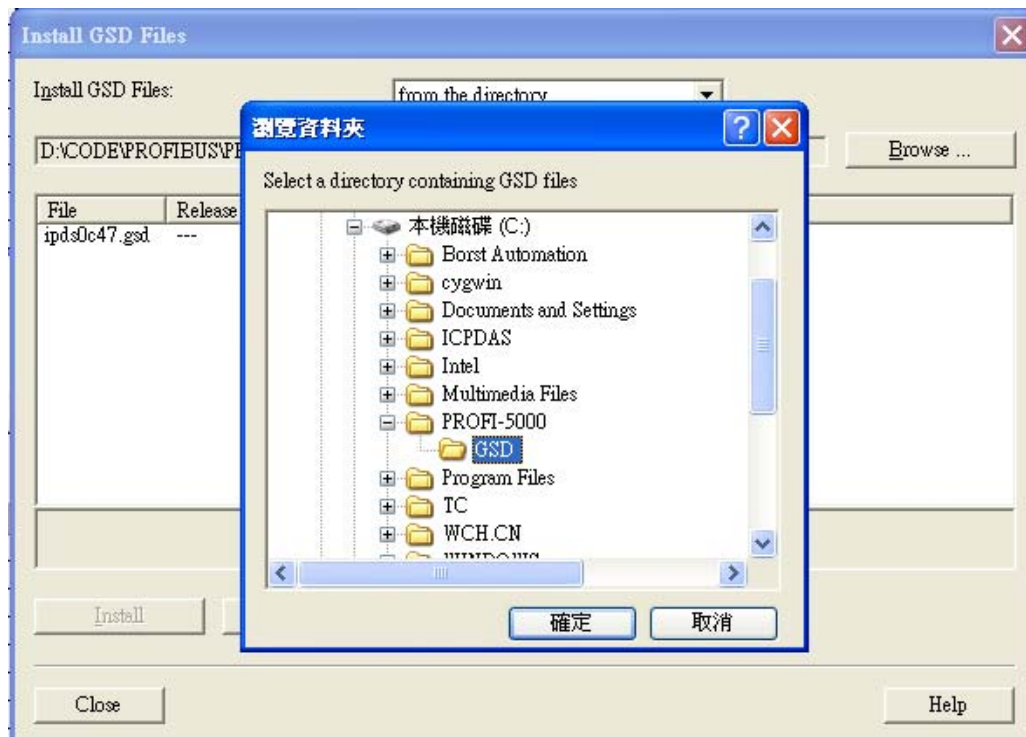
## Step 5: Install PROFI-5000 GSD File

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/profibus/remote%20io/profi-5000/gsd/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/remote%20io/profi-5000/gsd/)

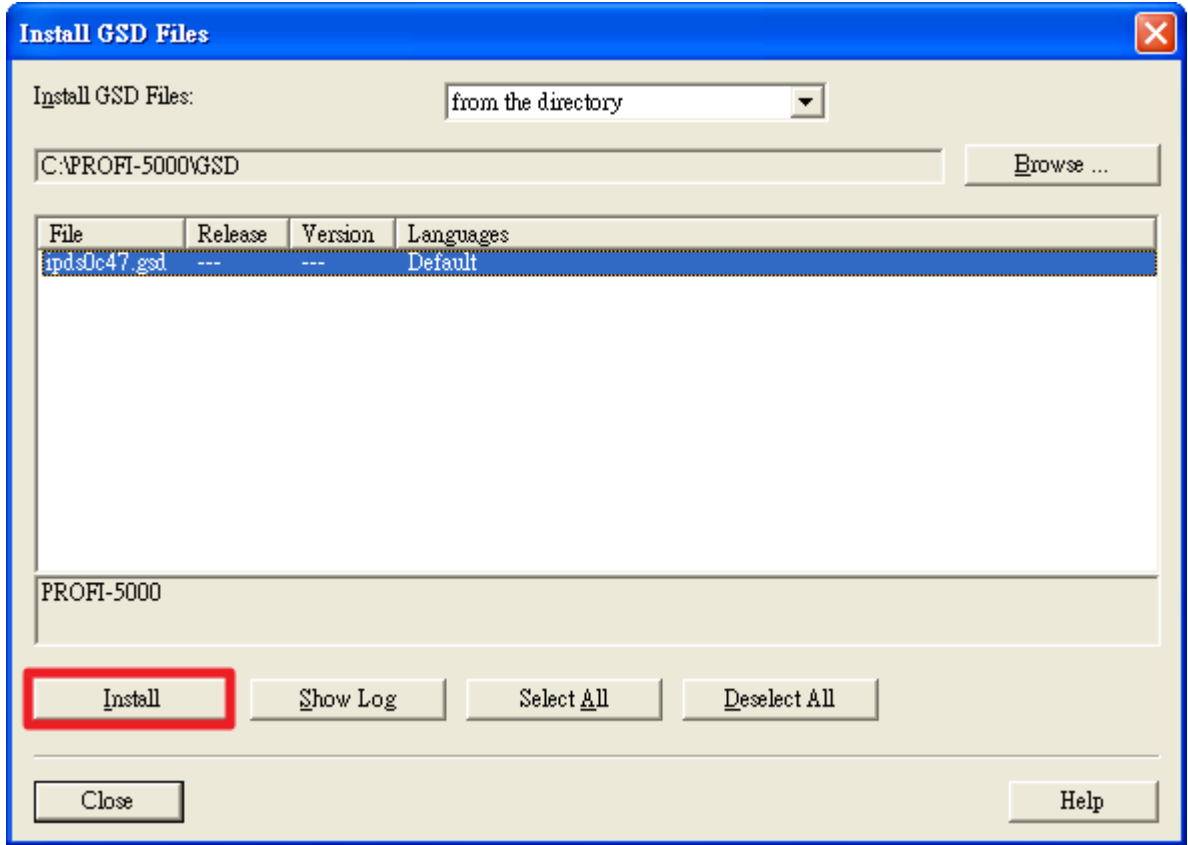
e. Click “Install GSD File”



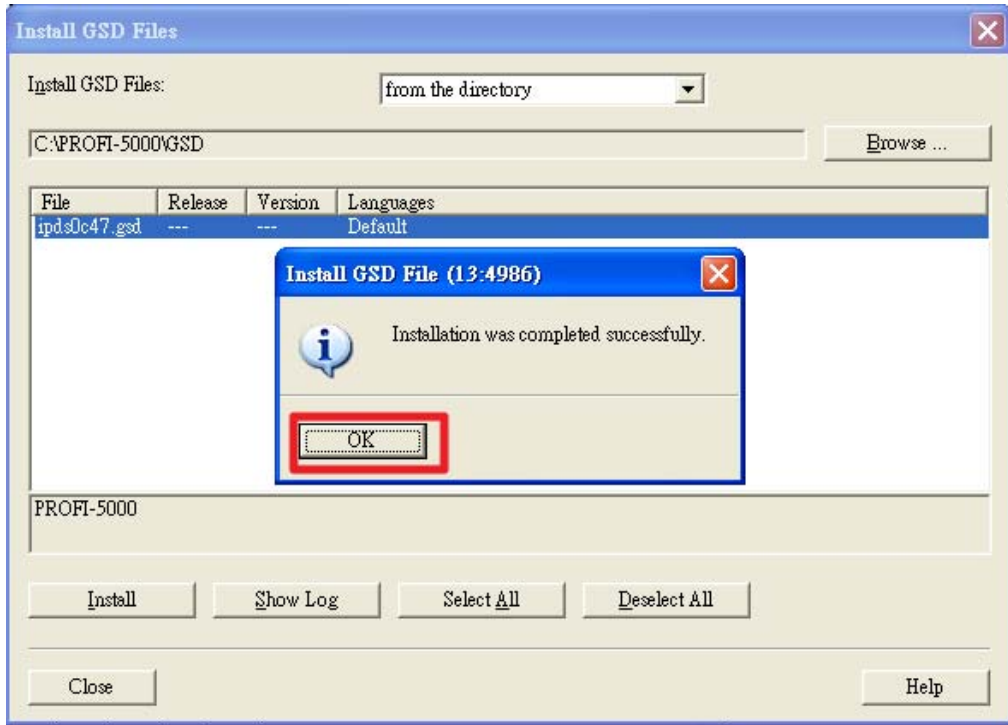
f. Select the directory of PROFI-5017's GSD file(ipds0c47.gsd) and click “OK”



g. Click "Install"

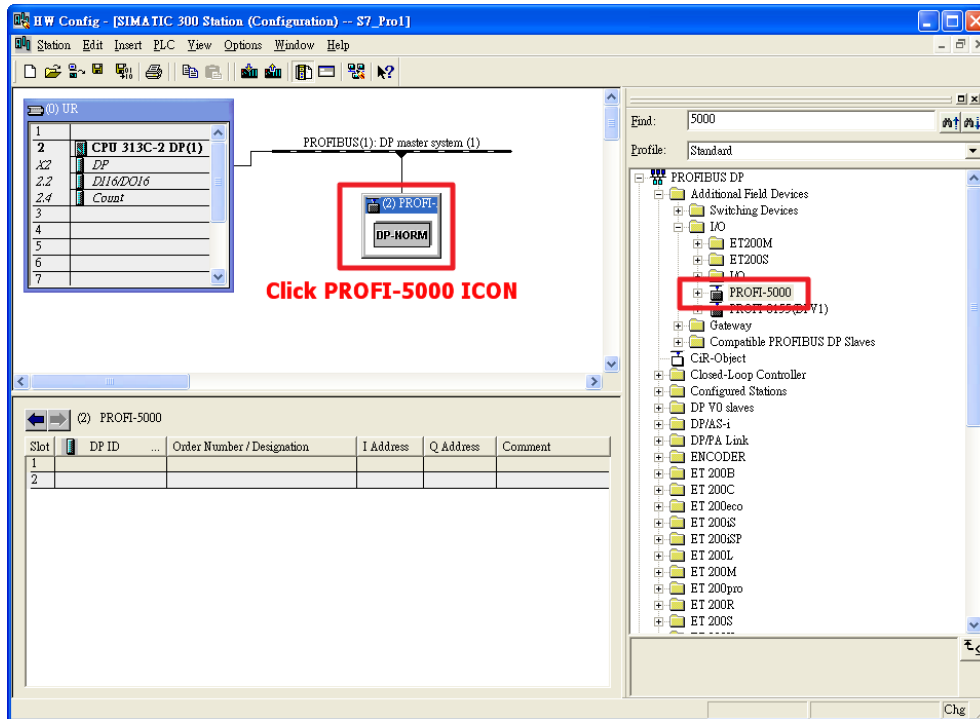


h. Click "OK"

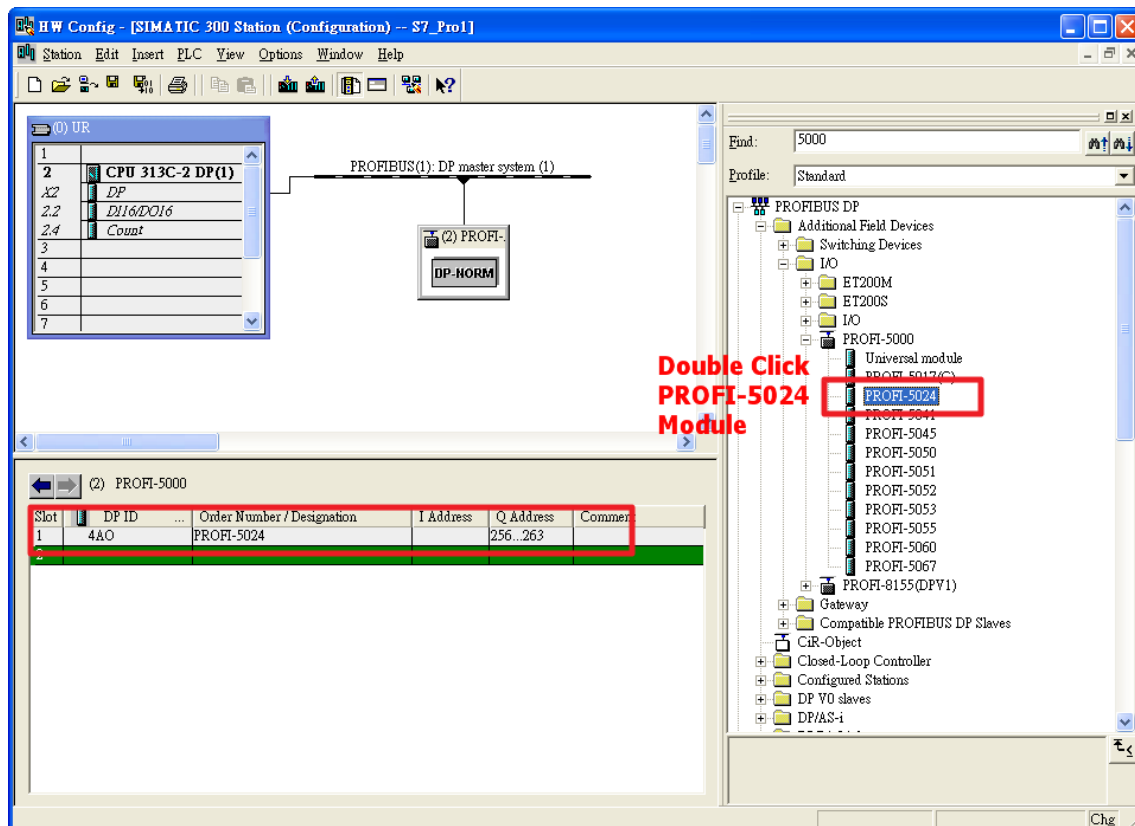


## Step 6: Setup the PROFI-5024 module

### a. Select PROFI-5000 module

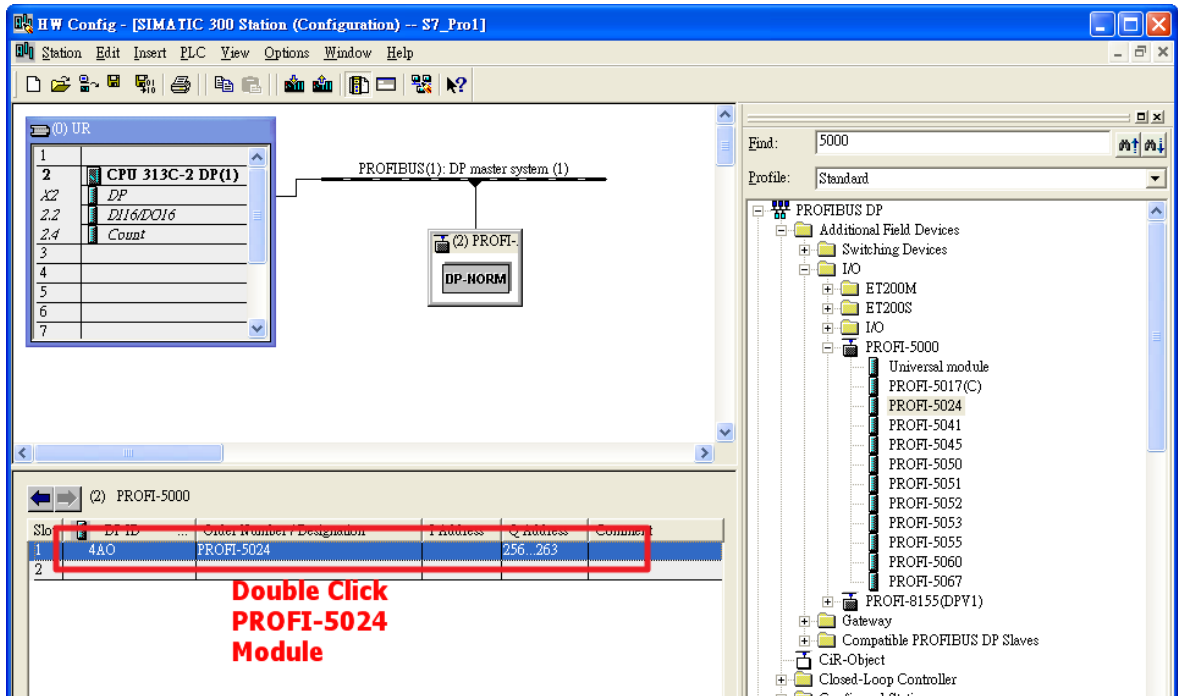


### b. Add a "PROFI-5024 module"



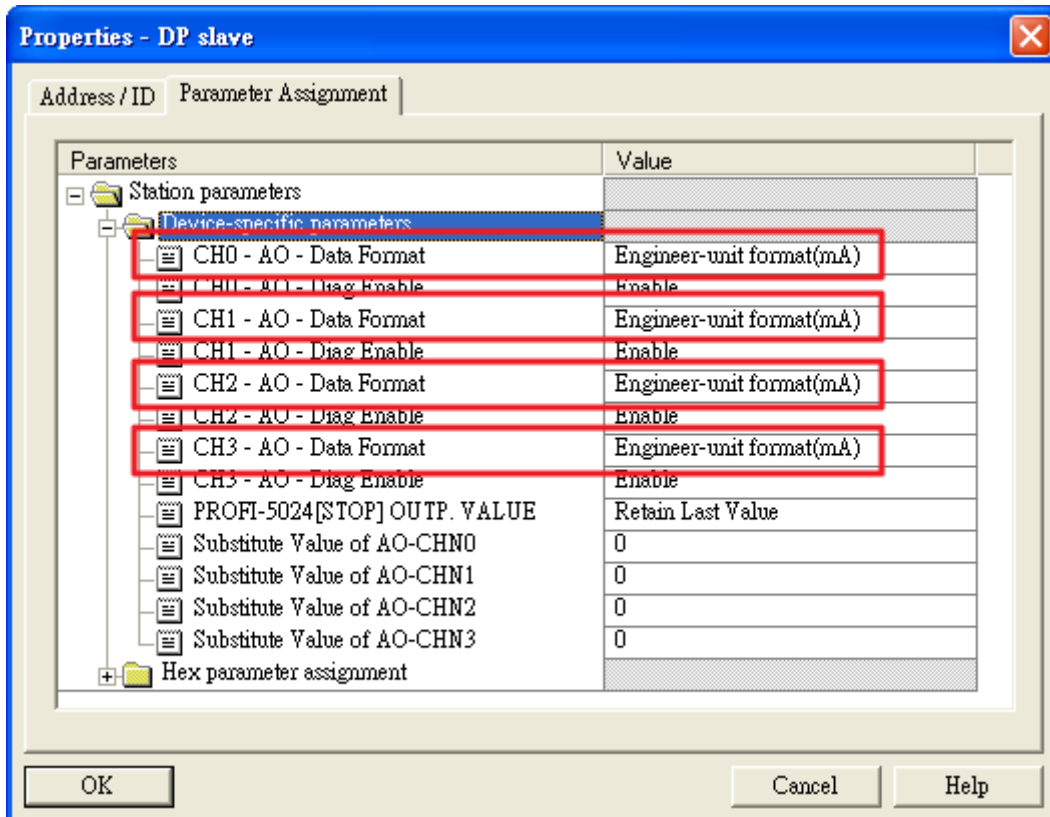
## Step 7: Setup the parameters of the PROFI-5024

a. Double Click “PROFI-5024 module”



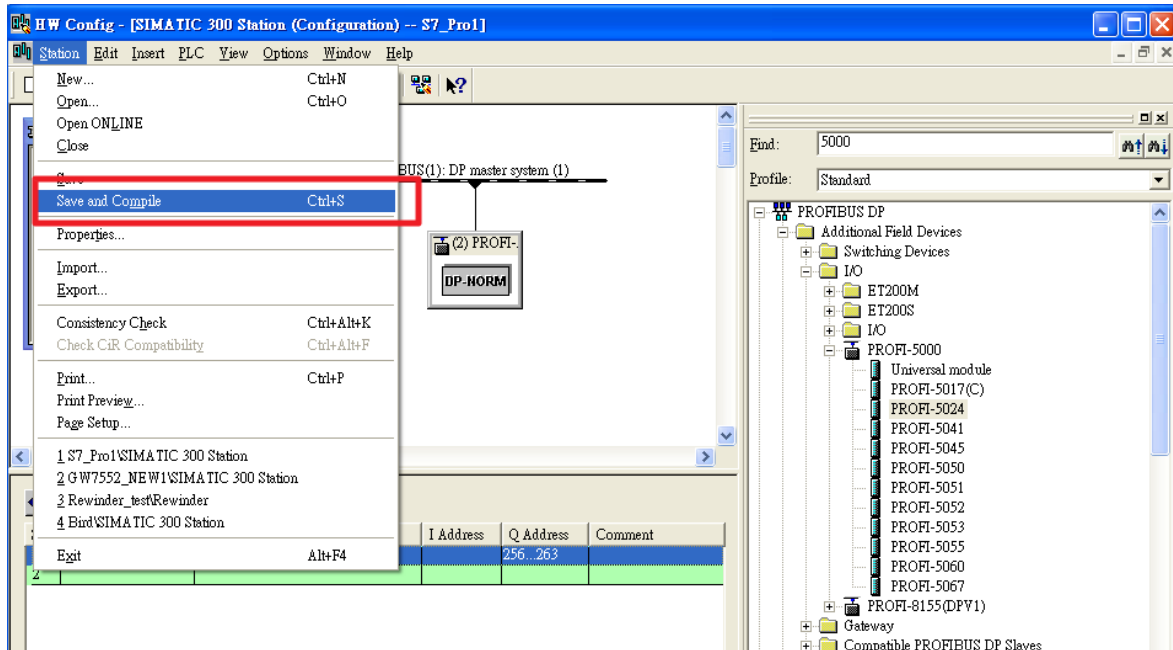
b. Select “Parameter Assignment”

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

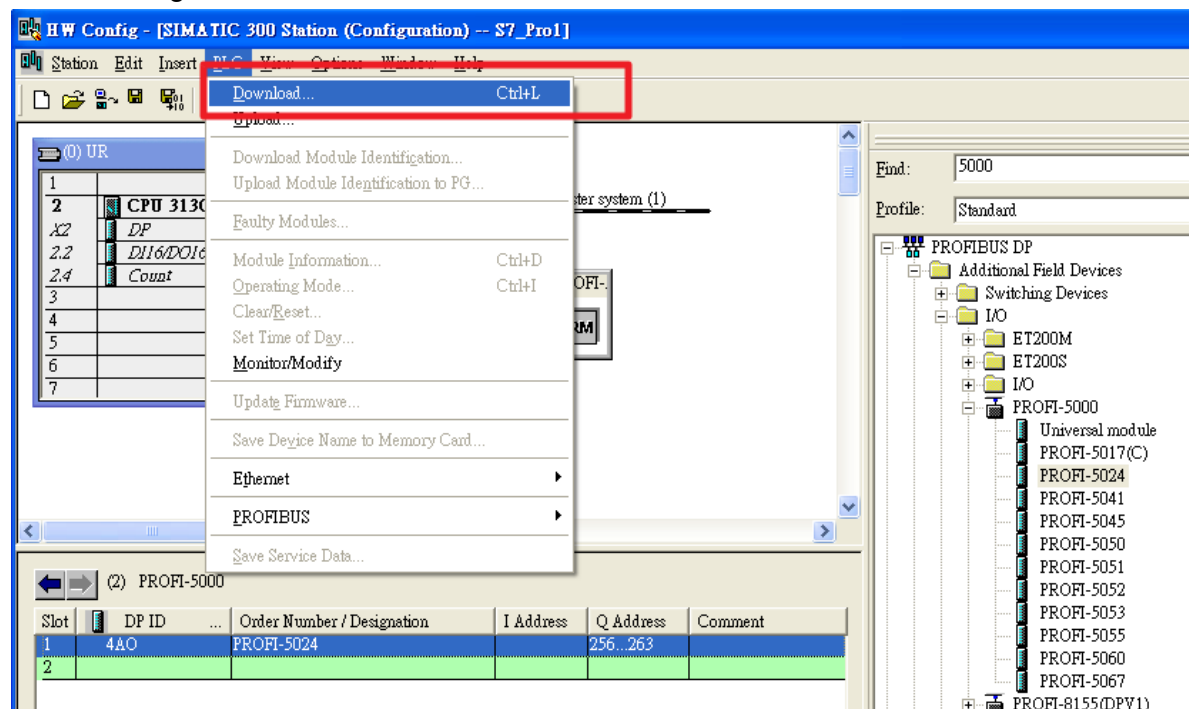


## Step 8: Download the HW settings into SIMATIC PLC

### a. Save and Compile

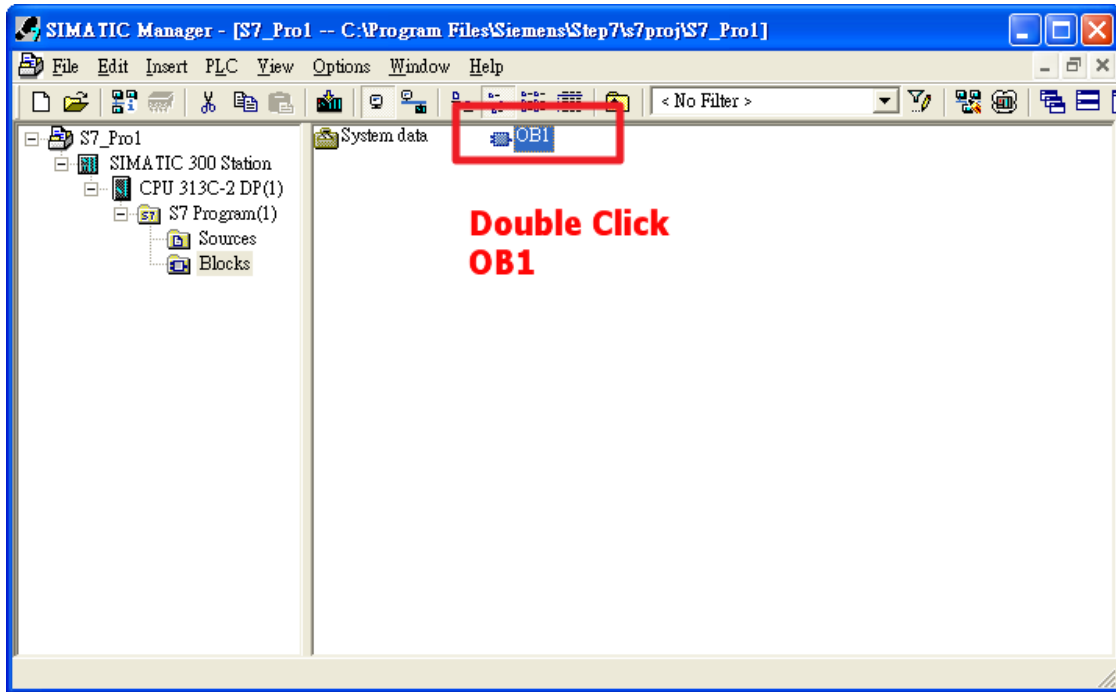


### b. HW settings into SIMATIC PLC



## Step 9: Edit OB1

a. Double click "OB1"



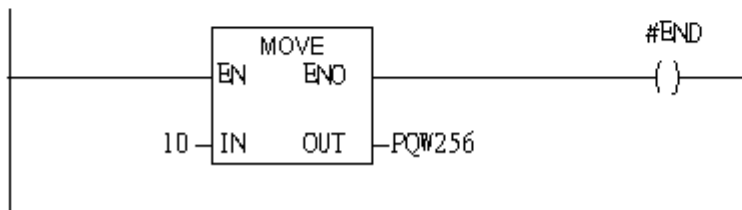
b. Program

OB1 : "Main Program Sweep (Cycle)"

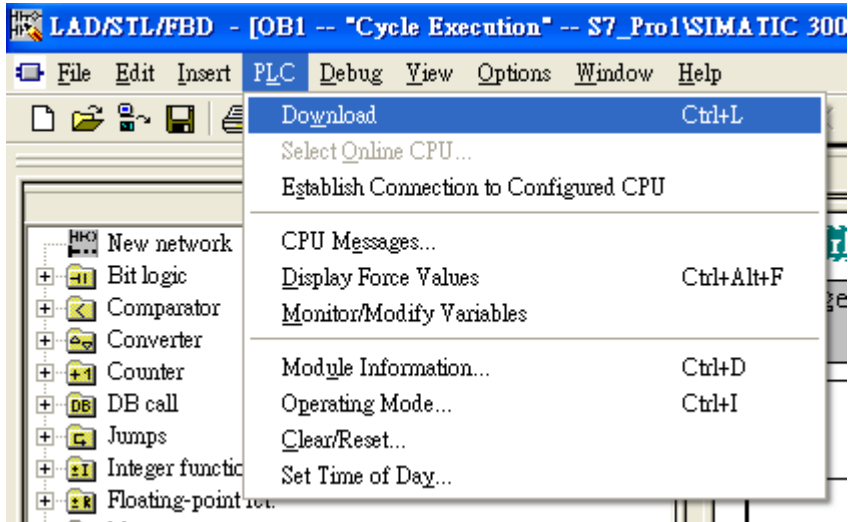
Comment:

**Network 1**: Send Voltage

Voltage (9v)



Step 10: Download the settings into SIMATIC PLC



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





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

OBI : "Main Program Sweep (Cycle)"

Comment:

**Network 1**: Send Current

Current (10mA)

