WEINTEK LABS., INC.

iR-AM06-VI Module Configuration

Demo Project

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1. Overview

This demo project introduces how to add SDO and configure iR-AM06-VI in CODESYS.

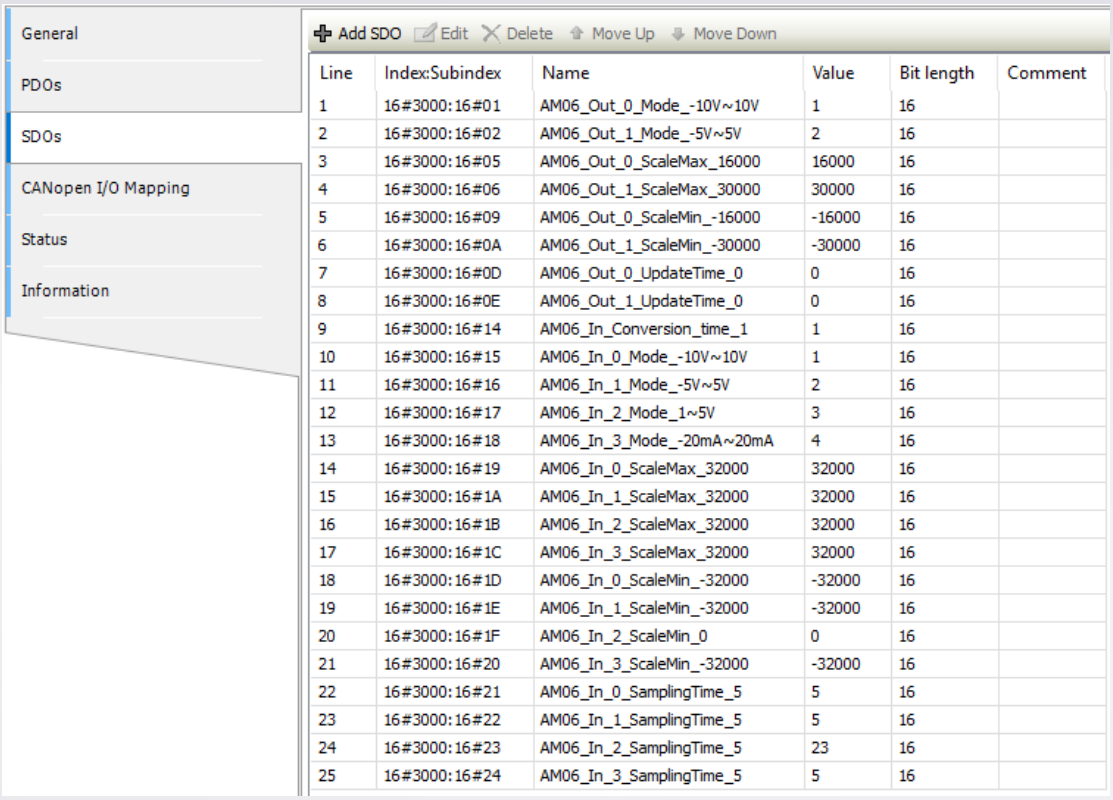
In this demo project, iR-AM06-VI is the first module in the system and its channels are set as below:

Input Channel	Channel Mode	Scale	Update Time
Channel.0	-10V~10V	-16000~16000	0
Channel.1	-5V~5V	-30000~30000	0
Input Channel	Channel Mode	Scale	Filter Frame Size
Channel.0	-10V~10V	-32000~32000	5
Channel.1	-5V~5V	-32000~32000	5
Channel.2	1V~5V	0~32000	5
Channel.3	-20mA~20mA	-32000~32000	5

2. Operation

Step 1. Connect iR-COP and open “SDOs” tab.

Step 2. Add SDO as shown below.



Line	Index:Subindex	Name	Value	Bit length	Comment
1	16#3000:16#01	AM06_Out_0_Mode_-10V~10V	1	16	
2	16#3000:16#02	AM06_Out_1_Mode_-5V~5V	2	16	
3	16#3000:16#05	AM06_Out_0_ScaleMax_16000	16000	16	
4	16#3000:16#06	AM06_Out_1_ScaleMax_30000	30000	16	
5	16#3000:16#09	AM06_Out_0_ScaleMin_-16000	-16000	16	
6	16#3000:16#0A	AM06_Out_1_ScaleMin_-30000	-30000	16	
7	16#3000:16#0D	AM06_Out_0_UpdateTime_0	0	16	
8	16#3000:16#0E	AM06_Out_1_UpdateTime_0	0	16	
9	16#3000:16#14	AM06_In_Conversion_time_1	1	16	
10	16#3000:16#15	AM06_In_0_Mode_-10V~10V	1	16	
11	16#3000:16#16	AM06_In_1_Mode_-5V~5V	2	16	
12	16#3000:16#17	AM06_In_2_Mode_1~5V	3	16	
13	16#3000:16#18	AM06_In_3_Mode_-20mA~20mA	4	16	
14	16#3000:16#19	AM06_In_0_ScaleMax_32000	32000	16	
15	16#3000:16#1A	AM06_In_1_ScaleMax_32000	32000	16	
16	16#3000:16#1B	AM06_In_2_ScaleMax_32000	32000	16	
17	16#3000:16#1C	AM06_In_3_ScaleMax_32000	32000	16	
18	16#3000:16#1D	AM06_In_0_ScaleMin_-32000	-32000	16	
19	16#3000:16#1E	AM06_In_1_ScaleMin_-32000	-32000	16	
20	16#3000:16#1F	AM06_In_2_ScaleMin_0	0	16	
21	16#3000:16#20	AM06_In_3_ScaleMin_-32000	-32000	16	
22	16#3000:16#21	AM06_In_0_SamplingTime_5	5	16	
23	16#3000:16#22	AM06_In_1_SamplingTime_5	5	16	
24	16#3000:16#23	AM06_In_2_SamplingTime_5	23	16	
25	16#3000:16#24	AM06_In_3_SamplingTime_5	5	16	

Step 3. Click [login] and CODESYS will write values into the registers of iR-AM06-VI.