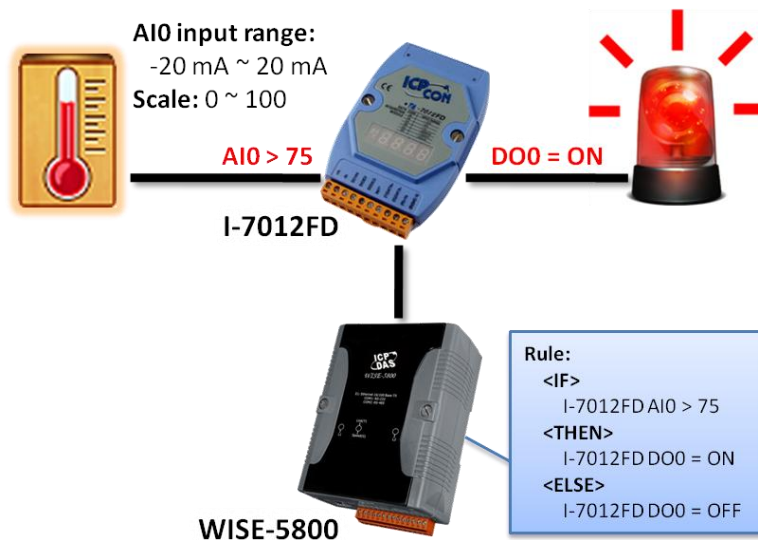


WISE-580x AI Attribute Application Example



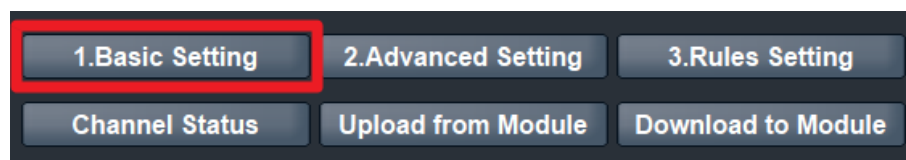
● Scenario :

Assuming that a temperature sensor is connected to the AI channel 0 of an I-7012FD module that is connected to a WISE-5800 controller. By the Scale function via linear approach provided by the WISE-5800, it allows to adjust the raw value read from AI0 (-20 mA ~ 20mA) to fit in the temperature range (0 ~ 100) of the sensor. When the value of AI0 (the adjusted value) exceeds 75, the warning light will be turned on and will real-time inform the related personnel; if the value is less than 75, the warning light will be off.

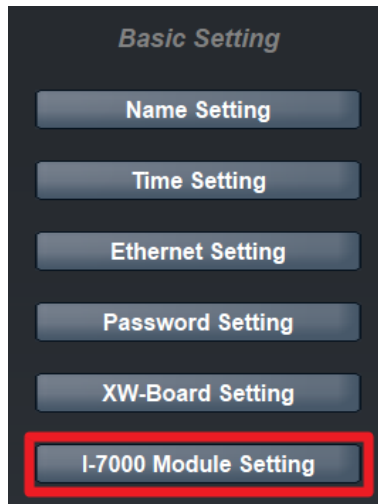


● Steps :

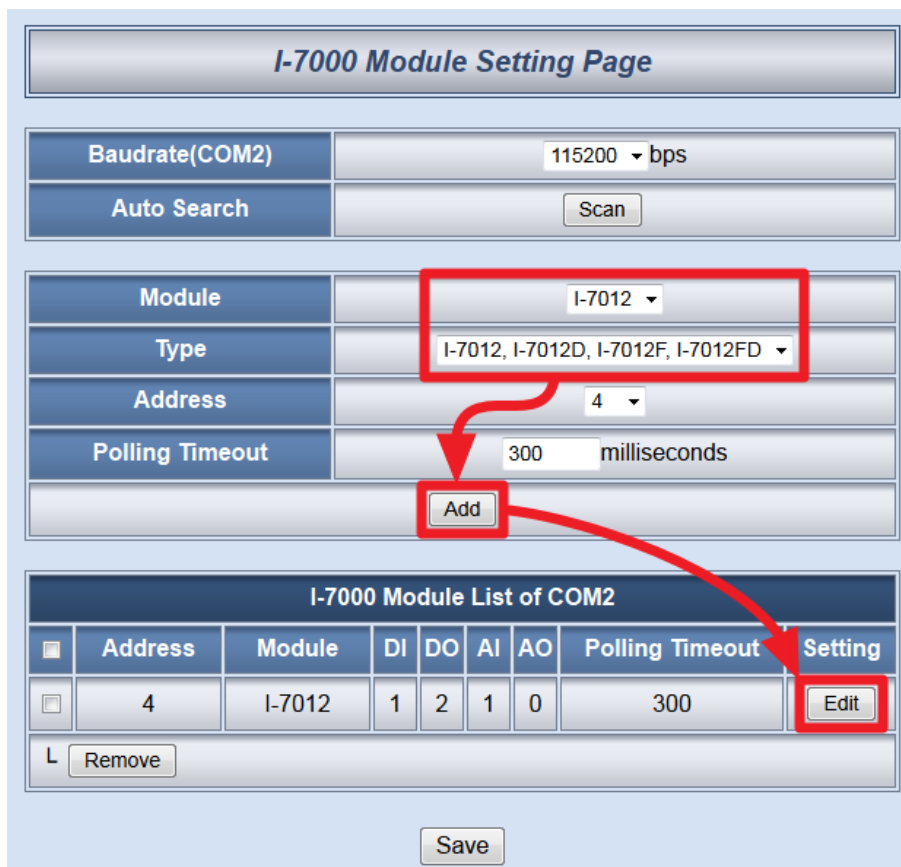
1. Open the WISE WEB page, and get into the Basic Setting page.



2. After getting into the Basic Setting page, click "I-7000 Module Setting" to get in the setting page.



3. On the "I-7000 Module Setting Page", add I-7012FD module to the list (in this case, the I-7012FD locates at address 4). Click on the "Edit" button on the module list as indicated to edit the settings (for detailed module settings information, please refer to the user manual).



4. On the "I-7012 Module Setting" page, in the "AI Attribute" section, in the "Ch.0" section, select "Type" to be "-20 mA ~ 20 mA ", and in the "Scale"

field, input “MIN” to be “0” and “MAX” to be “100” . Input the Deadband value to be “5” to avoid signal oscillation. Click “Save” button to save the settings and return to “I-7000 Module Setting Page”.

I-7012 Module Setting

Address: 4
Polling Timeout: 300 milliseconds

DI Attribute | DO Attribute | **AI Attribute**

Channel	Nickname	Type	Deadband	Scale
Ch.0		-20 mA ~ 20 mA	5 Scale: (0 ~ 100)	MIN 0 MAX 100

Save

5. Click “Save” button to save the module settings.

I-7000 Module Setting Page

Baudrate(COM2): 115200 bps
Auto Search: Scan

Module: I-7012
Type: I-7012, I-7012D, I-7012F, I-7012FD
Address: 1
Polling Timeout: 300 milliseconds

Add

I-7000 Module List of COM2

	Address	Module	DI	DO	AI	AO	Polling Timeout	Setting
<input type="checkbox"/>	4	I-7012	1	2	1	0	300	Edit

L Remove

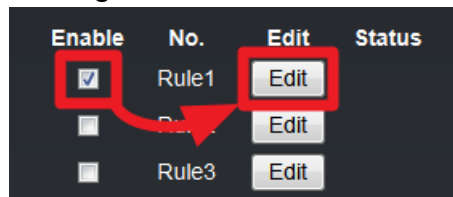
Save

6. Click on “3.Rules Setting” button to get into the Rule Setting page.

1.Basic Setting | 2.Advanced Setting | **3.Rules Setting**

Channel Status | Upload from Module | Download to Module

7. Check the “Rule 1” checkbox to enable “Rule 1”, then click “Rule 1” “Edit” button for “Rule 1” editing.



8. On the “Rule1 Setting Page”(on the right side), select “AI” as IF Condition for “Condition 1”, and then click on the right side button to edit detailed information.

	IF	THEN	ELSE
Condition1	None	Action1	Action1
Condition2	AI	Action2	Action2
Condition3	DI Counter	Action3	Action3
Operator	None		

Clear Save

9. In the “Module & Channel” section, select “4:I-7012” and channel “0” from the dropdown list. In the “Operator” field, select “>” and in the “Value” section, select “Assign Value as” and assign the value as “75”. Click “Save” button to save the settings and return to Rules 1 Setting Page.

Module & Channel	Operator	Value
4:I-7012 Ch. 0	>	Assign Value as 75

Save

10. In the “THEN” section, in the “Action1” field, select “DO” from the drop down list; click the button next to the “Action 1” field as indicated to get into the “DO Action Setting” page.

Rule1 Setting Page

Description

	IF		THEN		ELSE
Condition1	AI	Action1	None	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Clear Save

11. In the “Module & Channel” section, select “4:I-7012” and channel “0” from the dropdown list. In the “Channel Value” section, select “ON” from the dropdown list. Then click “Save” button to save the settings and return to Rules 1 Setting Page.

DO Action Setting

Module & Channel Channel

Channel Value

Save

12. In the “ELSE” section, in the “Action1” field, select “DO” from the dropdown list; click the button next to the “Action 1” field as indicated to get into the “DO Action Setting” page.

Rule1 Setting Page

Description

	IF		THEN		ELSE
Condition1	AI	Action1	DO One Time Repeat	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Clear Save

13. In the “Module & Channel” section, select “4:I-7012” and channel “0” from the dropdown list. In the “Channel Value” section, select “OFF” from the dropdown list. Then click “Save” button to save the settings and return to Rules 1 Setting Page.

DO Action Setting

Module & Channel: 4:I-7012 Channel 0

Channel Value: OFF

Save

14. Make sure all Rule 1 settings are accurate, click “Save” button to save the settings.

Rule1 Setting Page

Description: []

	IF		THEN		ELSE
Condition1	AI	Action1	DO <input checked="" type="radio"/> One Time <input type="radio"/> Repeat	Action1	DO <input checked="" type="radio"/> One Time <input type="radio"/> Repeat
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

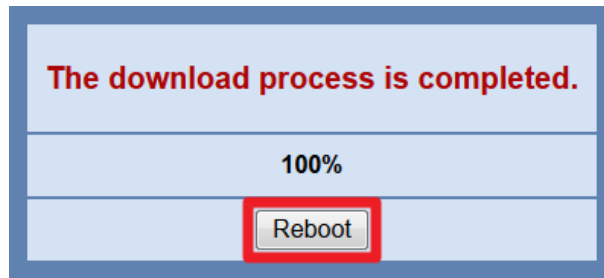
Clear Save

15. After finish the rule editing, click the “Download to Module” button and input the password.

1.Basic Setting 2.Advanced Setting 3.Rules Setting

Channel Status Upload from Module Download to Module

16. After the download process is completed, click “Reboot” button to make the new updated settings take effect.



- **Rule Overview :**

Rule Overview

Rule1(Enable)
Description:
< IF >
4:I-7012 AI0 > 75
< THEN >
4:I-7012 DO0 = ON (One Time)
< ELSE >
4:I-7012 DO0 = OFF (One Time)