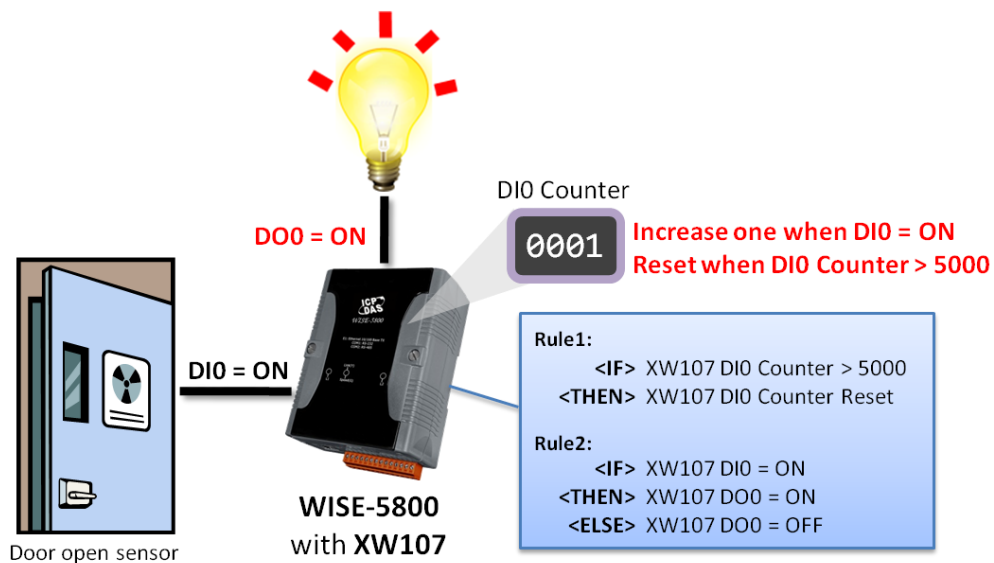


# WISE-580x DI Attribute Application Example



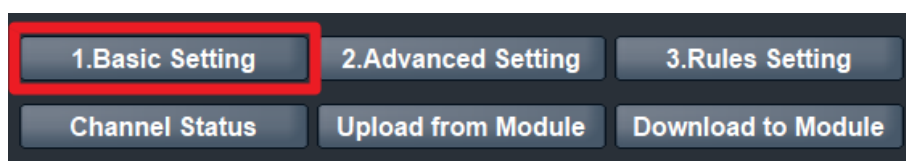
## ● Scenario :

Assume an access control sensor and a light that are respectively connected to the DI channel 0 and DO channel 0 on a WISE-5800 controller that equips with a XW107 XW-Board. Each time when the door is open, the sensor will send out a digital signal, and the DI channel 0 will receive an ON signal, and then the DO0 channel will be changed to ON; the light will be ON to light up the area nearby the door. When the door is shut, the sensor will send an OFF signal to DI channel 0, at this time, DO channel 0 will again being changed back to OFF and the light will be turn off at the same time. In addition, WISE-5800 controller allows to calculate the access frequency via the DI Counter function. The DI counter will reset to 0 when it reaches certain preset amount- such as: 5000 times, and will re-calculate the frequency from 0.



## ● Steps :

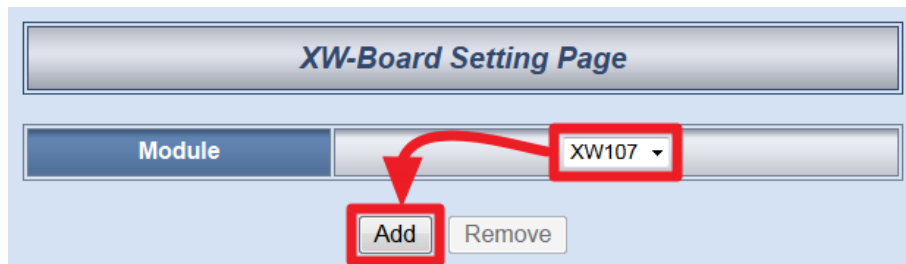
1. Open the WISE WEB page, and get into the “1.Basic Setting” page.



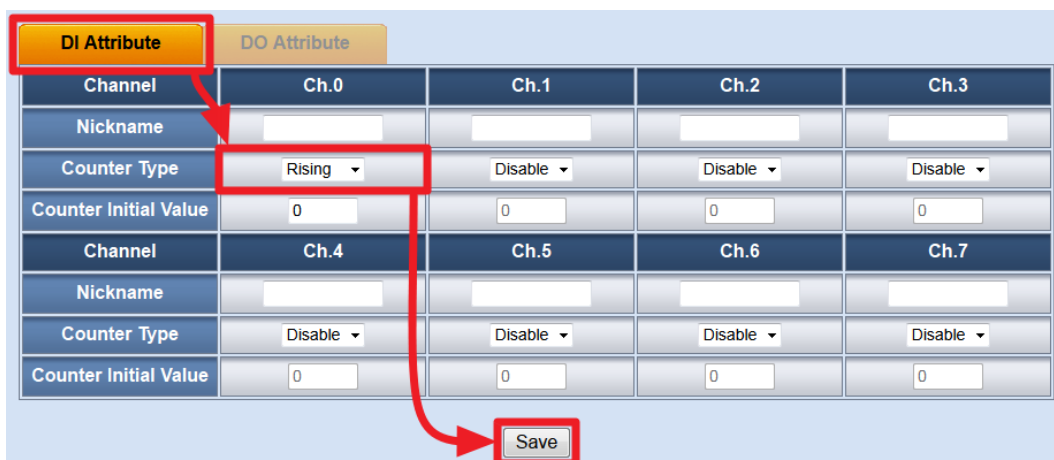
2. After getting into the Basic Setting page, click “XW-Board Setting” to get in the setting page.



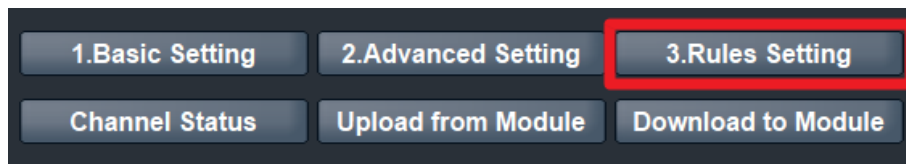
3. On the “XW-Board Setting”(on the right side), in the “Module” field, select “XW107” from the dropdown list, and then click the “Add” button.



4. Get into the DI Attribute Setting page. In the “Counter Type” section, in the “Ch.0” field, select “Rising” from the dropdown list. Click “Save” button to complete the setting.



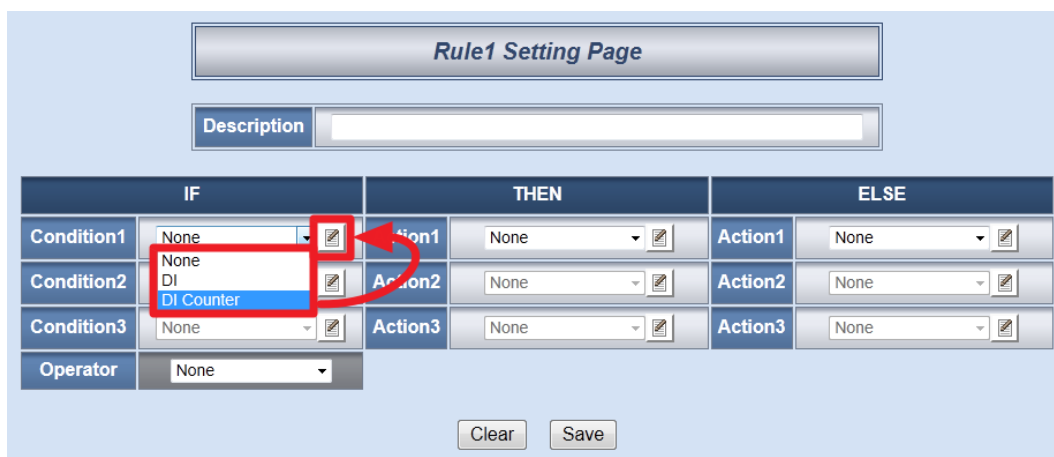
5. Click on “3.Rules Setting” page to get into the Rule Setting page.



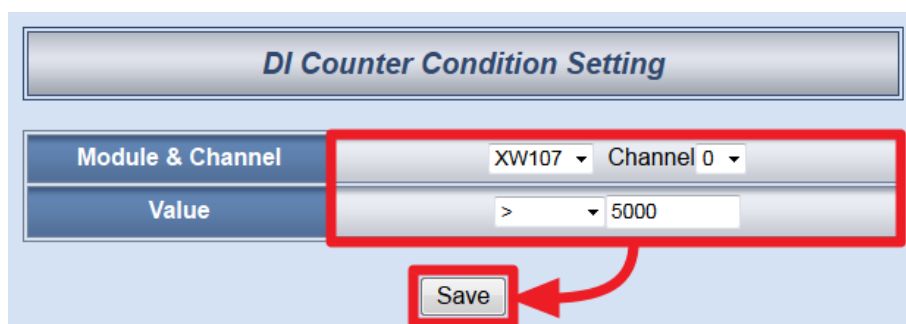
6. Check the “Rule 1” checkbox to enable “Rule 1”, then click “Rule 1” “Edit” button for “Rule 1” editing.



7. On the “Rule1 Setting Page”(on the right side), select “DI Counter” as IF Condition for “Rule 1”, and then click on the right side button to get into the “DI Counter Condition Setting” page to edit detailed information.



8. In the “Module & Channel” section, select “XW107” and channel “0” from the dropdown list. in the “Value” section, select “>” from the dropdown list and input the value as “5000” . Click “Save” button to save the settings and return to Rules 1 Setting Page.



- In the “THEN” section, in the “Action1” field, select “DI Counter” from the dropdown list; and then click on the right side button to get into the “DI Counter Action Setting” page to edit detailed information.

**Rule1 Setting Page**

Description

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

Clear Save

- In the “Module & Channel” section, select “XW107” and channel “0” from the dropdown list. Click “Save” button to save the settings and return to “Rules 1 Setting” Page.

**DI Counter Action Setting**

Module & Channel XW107 Channel 0

Action Counter Reset

Save

- Make sure all Rule 1 settings are accurate, click “Save” button to save the settings and return to “Rule1 Setting Page”.

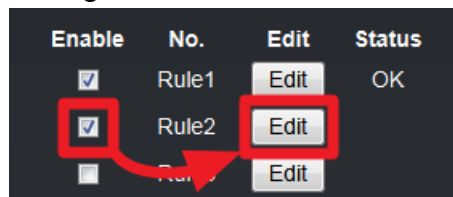
**Rule1 Setting Page**

Description

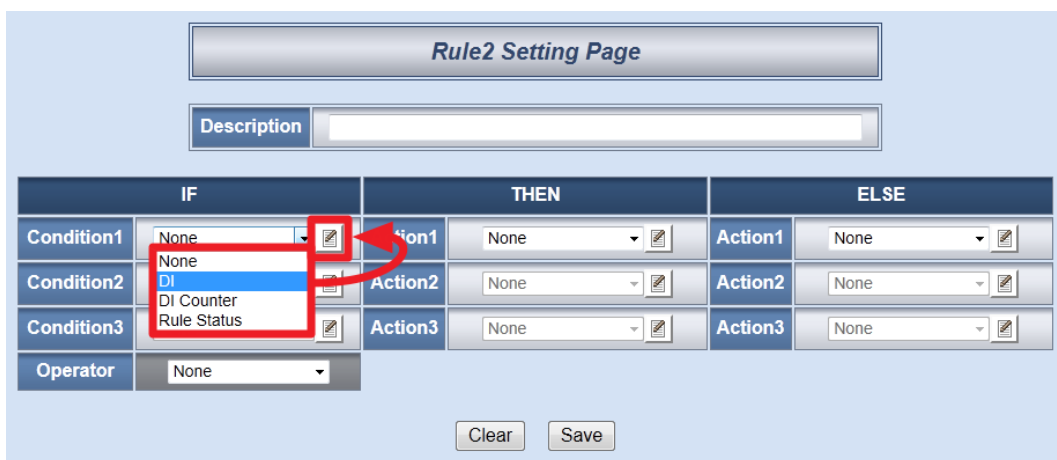
IF		THEN		ELSE	
Condition1	DI Counter	Action1	DI Counter	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Clear Save

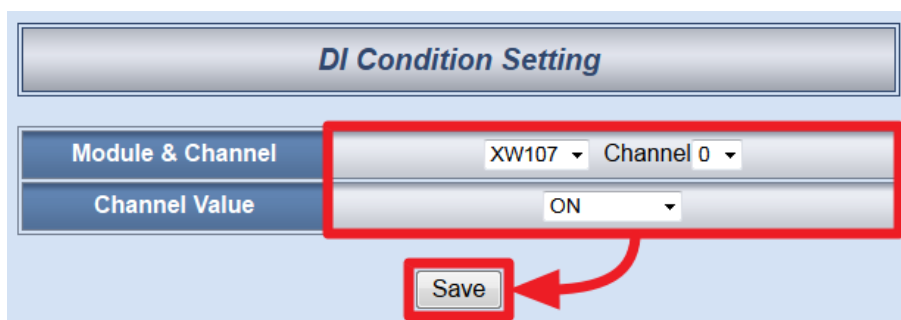
12. Check the “Rule 2” checkbox to enable “Rule 2”, then click “Rule 2” “Edit” button for “Rule 2” editing.



13. On the “Rule 2 Setting Page”(on the right side), select “DI” as IF Condition for “Condition 1”, and then click on the right side button to edit detailed information.



14. In the “Module & Channel” section, select “XW107” and channel “0” and in the “Channel Value” select “ON” from the dropdown list. Click “Save” button to save the settings and return to Rules 2 Setting Page.



15. In the “THEN” 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.

**Rule2 Setting Page**

Description

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

Clear Save

16. In the “Module & Channel” section, select “XW107” and channel “0” and in the “Channel Value” select “ON” from the dropdown list. Click “Save” button to save the settings and return to Rules 2 Setting Page

**DO Action Setting**

Module & Channel XW107 Channel 0

Channel Value ON

Save

17. 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.

**Rule2 Setting Page**

Description

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

Clear Save

18. In the “Module & Channel” section, select “XW107” and channel “0” and in the “Channel Value” select “OFF” from the dropdown list. Click “Save” button to save the settings and return to Rules 2 Setting Page.

**DO Action Setting**

Module & Channel: XW107 Channel 0

Channel Value: OFF

Save

19. Make sure all Rule 2 settings are accurate, click “Save” button to save the settings.

**Rule2 Setting Page**

Description: [Text Field]

	IF		THEN		ELSE
Condition1	DI	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				

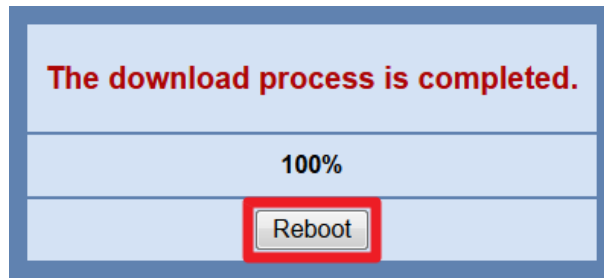
Clear Save

20. 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

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



- **Rule Overview :**

*Rule Overview*

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**Rule1(Enable)**  
Description:  
< IF >  
    XW107 DI0 Counter > 5000  
< THEN >  
    XW107 DI0 Counter Reset (One Time)

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**Rule2(Enable)**  
Description:  
< IF >  
    XW107 DI0 = ON  
< THEN >  
    XW107 DO0 = ON (One Time)  
< ELSE >  
    XW107 DO0 = OFF (One Time)