

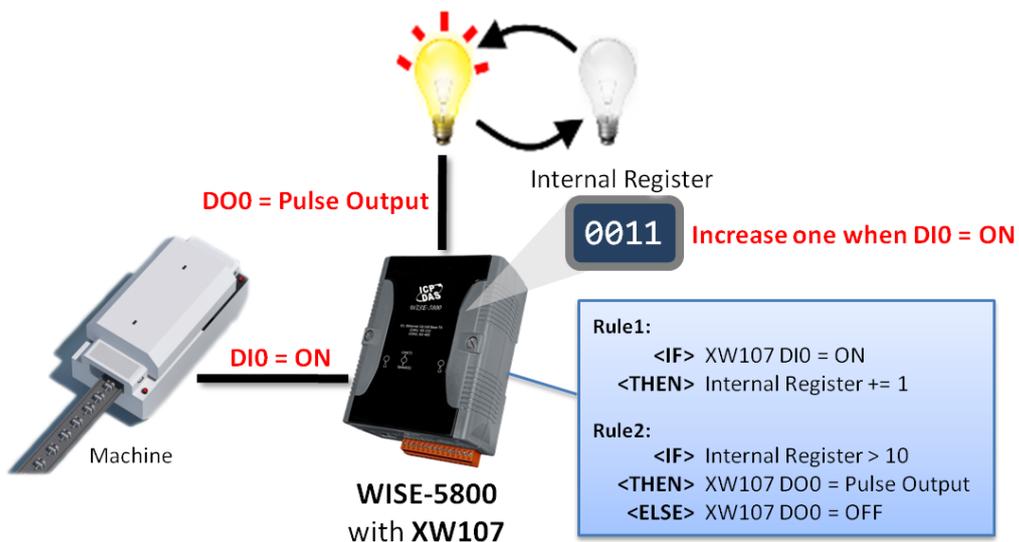
WISE-580x DO Attribute

Application Example



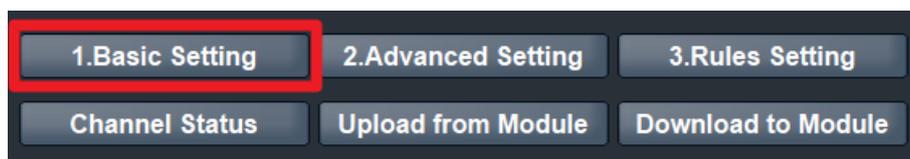
- **Scenario :**

Assume in a product line terminal equips a sensor and a warning light that are connected respectively to the DI channel 0 and DO channel 0 on a WISE-5800 controller (with a XW-Board XW107), when a finished product passes the sensor, the sensor will send out an “ON” signal to the DI channel 0 of the XW107. When the amount of the finished product reached 10, the warning light will start to flash so that the related personnel will be able to perform further process.



- **Steps :**

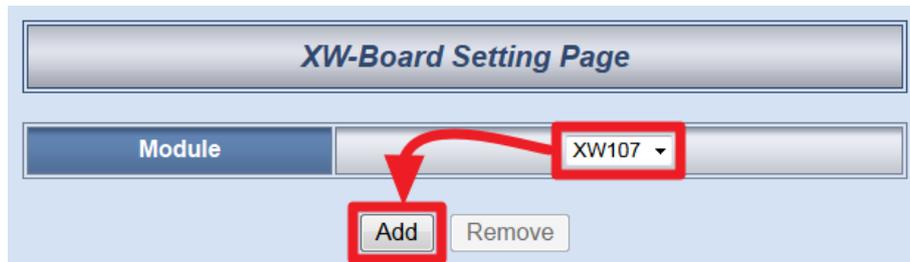
1. Open the WISE WEB page, and get into the “1.Basic Setting” page.



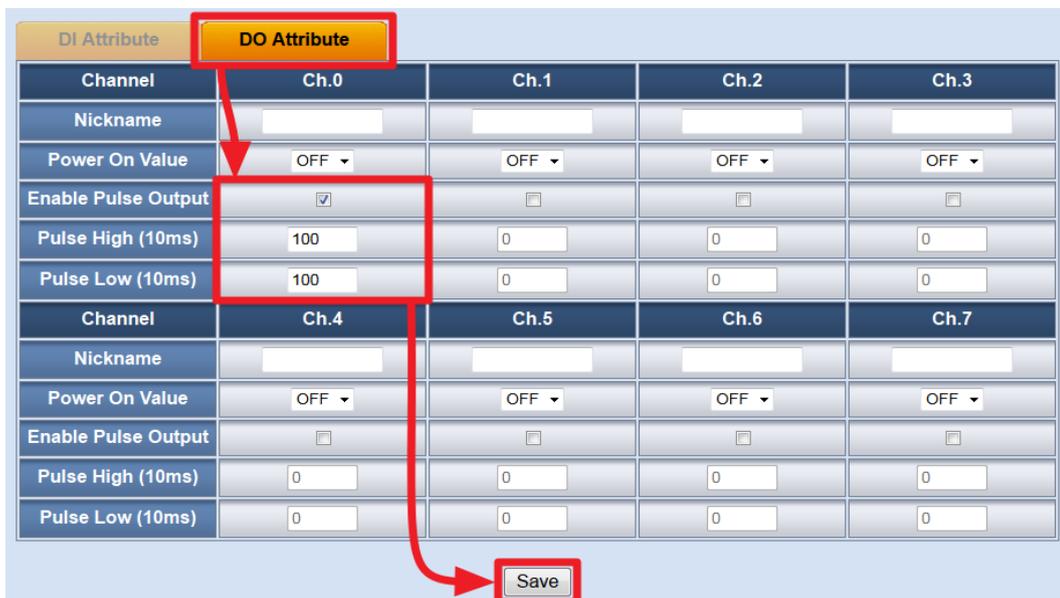
2. After getting into the Basic Setting page, click “XW-Board Setting” to get in the setting page.



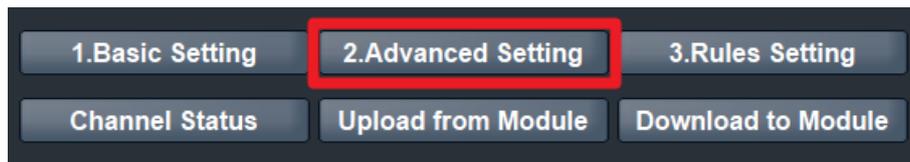
3. On the “XW-Board Setting”(on the right side), in the “Module” field, select “XW107’ from the dropdown list, and then click the “Add” button.



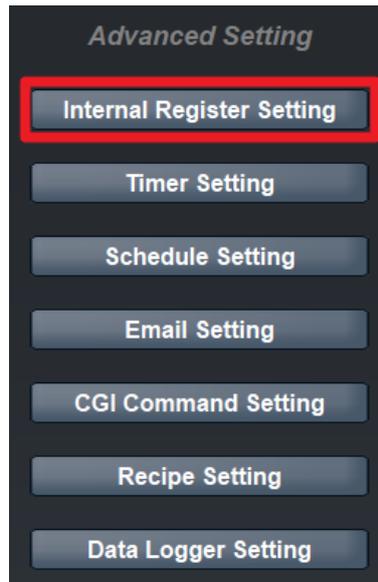
4. Get into the “DO Attribute Setting” page, click the “Enable Pulse Output” checkbox, and assign the time period to the “Pulse High” field and “Pulse Low” field (In this case, the time will be the time period of the light ON and OFF time, and will continue this ON/OFF cycle.) Click “Save” button to complete the setting.



5. Click on “2.Advanced Setting” to get into the setting page.



6. On the “Advanced Setting” page, click “Internal Register Setting” to get into the Internal Register Setting page.



7. On the “Internal Register Setting”(on the right side), check the box of “No.01” to enable the No.01 Internal Register and assign its Initial value to be “0” and click “Save” button.

Internal Register Setting Page

Enable	<input checked="" type="checkbox"/> No.01	<input type="checkbox"/> No.02	<input type="checkbox"/> No.03	<input type="checkbox"/> No.04	<input type="checkbox"/> No.05	<input type="checkbox"/> No.06
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.07	<input type="checkbox"/> No.08	<input type="checkbox"/> No.09	<input type="checkbox"/> No.10	<input type="checkbox"/> No.11	<input type="checkbox"/> No.12
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.13	<input type="checkbox"/> No.14	<input type="checkbox"/> No.15	<input type="checkbox"/> No.16	<input type="checkbox"/> No.17	<input type="checkbox"/> No.18
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.19	<input type="checkbox"/> No.20	<input type="checkbox"/> No.21	<input type="checkbox"/> No.22	<input type="checkbox"/> No.23	<input type="checkbox"/> No.24
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.25	<input type="checkbox"/> No.26	<input type="checkbox"/> No.27	<input type="checkbox"/> No.28	<input type="checkbox"/> No.29	<input type="checkbox"/> No.30
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.31	<input type="checkbox"/> No.32	<input type="checkbox"/> No.33	<input type="checkbox"/> No.34	<input type="checkbox"/> No.35	<input type="checkbox"/> No.36
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.37	<input type="checkbox"/> No.38	<input type="checkbox"/> No.39	<input type="checkbox"/> No.40	<input type="checkbox"/> No.41	<input type="checkbox"/> No.42
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Enable	<input type="checkbox"/> No.43	<input type="checkbox"/> No.44	<input type="checkbox"/> No.45	<input type="checkbox"/> No.46	<input type="checkbox"/> No.47	<input type="checkbox"/> No.48
Nickname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Initial value	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

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

<input type="button" value="1.Basic Setting"/>	<input type="button" value="2.Advanced Setting"/>	<input checked="" type="button" value="3.Rules Setting"/>
<input type="button" value="Channel Status"/>	<input type="button" value="Upload from Module"/>	<input type="button" value="Download to Module"/>

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



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

Rule1 Setting Page

Description:

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

Clear Save

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

DI Condition Setting

Module & Channel: XW107 Channel 0

Channel Value: ON

Save

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

Rule1 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

13. In the "Index" field, select "1" and in the "Operator" field, select "+=" and in the "Value" field, select "Assign Value as" and input "1". Click "Save" button to save the settings and get back to the "Rule1 Setting Page".

Internal Register Action Setting

Index	Operator	Value
1	+=	Assign Value as 1

Save

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

Rule1 Setting Page

Description

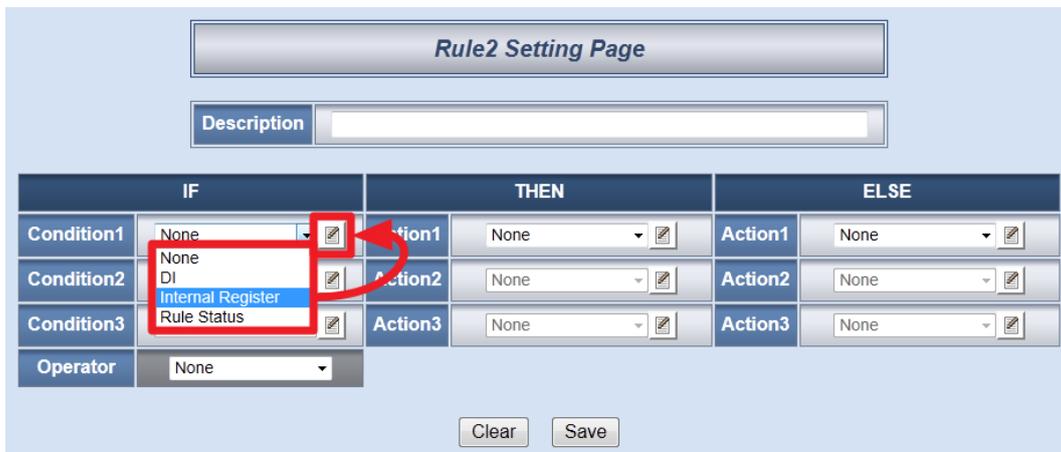
	IF		THEN		ELSE
Condition1	DI	Action1	Internal Register <input checked="" type="radio"/> One Time <input type="radio"/> Repeat	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Clear Save

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



- On the “Rule2 Setting Page”(on the right side), select “Internal Register” as IF Condition for “Rule 2”, and then click on the right side button to get into the “Internal Register Condition Setting” page to edit detailed information.



- In the “Index” field, select “1” and in the “Operator” field, select “>” and in the “Value” field, select “Assign Value as” and input “10”. Click “Save” button to save the settings and get back to the “Rule2 Setting Page”.



- 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 Internal Register	Action1 None	Action1 None
Condition2 None	Action2 DO	Action2 None
Condition3 None	Action3 Internal Register	Action3 None
Operator None		

Clear Save

19. In the “Module & Channel” section, select “XW107” and channel “0” from the dropdown list. In the “Channel Value” field, select “Pulse Output” 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 Pulse Output

Save

20. 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 Internal Register	Action1 DO One Time Repeat	Action1 None
Condition2 None	Action2 None	Action2 DO
Condition3 None	Action3 None	Action3 Internal Register
Operator None		

Clear Save

21. In the “Module & Channel” section, select “XW107” and channel “0” from the dropdown list. In the “Channel Value” field, 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

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

Rule2 Setting Page

Description: []

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

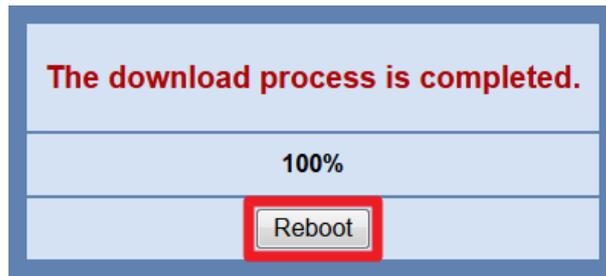
Clear Save

23. 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

24. 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 >
 XW107 DI0 = ON
< THEN >
 Internal Register 1 += 1 (One Time)

Rule2(Enable)
Description:
< IF >
 Internal Register 1 > 10
< THEN >
 XW107 DO0 = Pulse Output (One Time)
< ELSE >
 XW107 DO0 = OFF (One Time)