

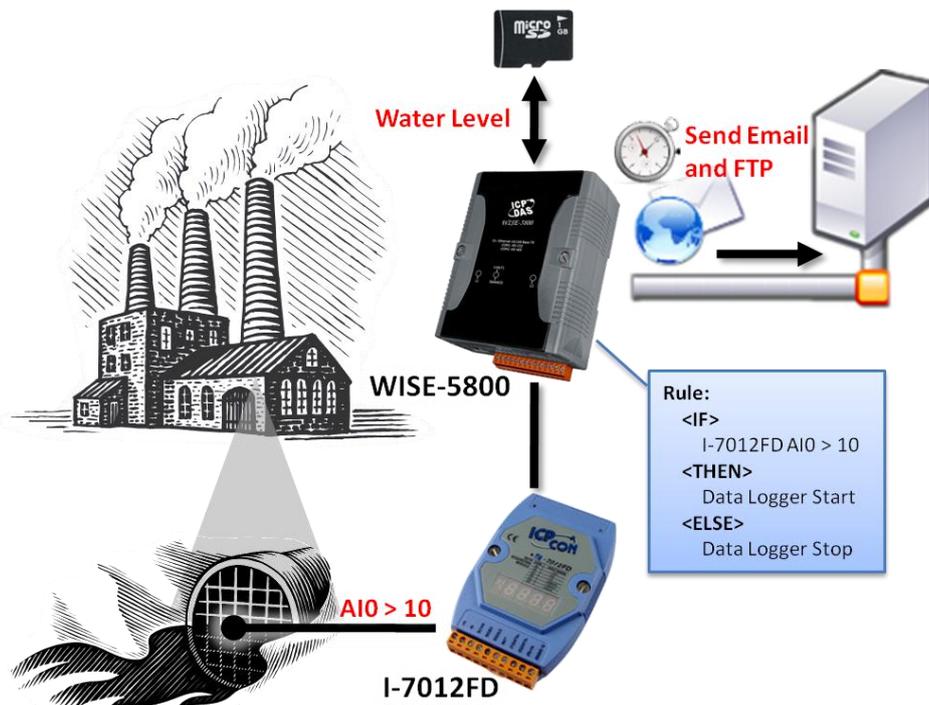
WISE-580x Data Logger

Application Example



- **Scenario :**

In a factory wastewater water level monitoring application, a WISE-5800 is connected to an I-7012FD module, the AI channel 0 of this module is connected to the water level sensor to get water level data. During the factory operating hours, when the water level is below 10, it is not necessary to keep recording the water level; however when the water level reaches over 10, it will start to record the water level every 5 minutes and send back related water level data every hour by email. And the whole day water level data will be uploaded via FTP at midnight 0 o'clock.

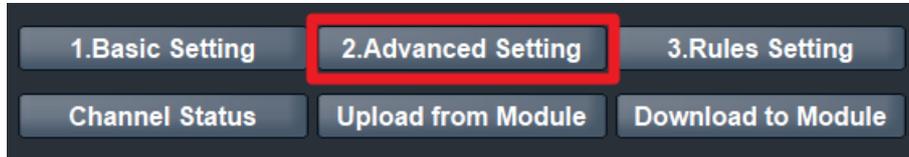


- **Steps :**

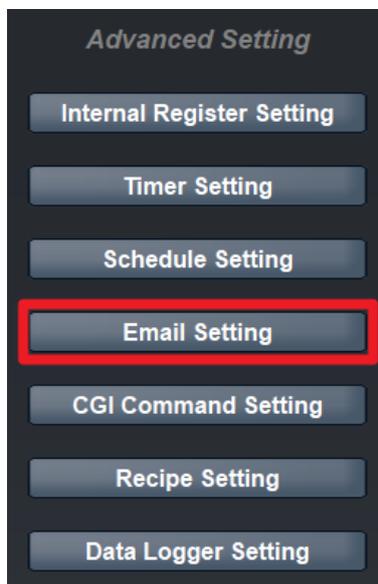
0. In this case, we will demo how to perform Data Logger settings, the I/O Module setting part will be skipped in this section. If you want to know more regarding I/O Module settings, please go to WISE-580x AI Attribute

section, step 1 to step 3 for more detailed information. In this case, the I-7012FD module is located at address 4.

1. Open the WISE WEB page and get into the “2.Advanced Setting” page.



2. On the Advanced Setting page; click on “Email Setting” to get into the setting page.



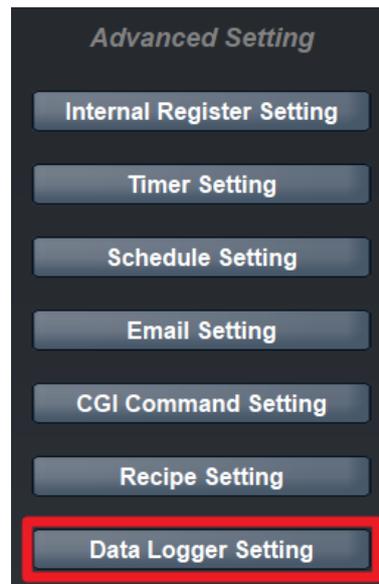
3. On the Email Setting page; specify the Email Amount to be “1”, and input related information for index number 1 Email such as: SMTP Sever IP (If the server requires authentication, please check the box in front of “Authentication” and input the Login ID and Password), Sender Name, Sender Email Address and Receiver Email Address. And then in the Subject and Content column, input the subject and content of the email. And then click “Save” button to save the settings.

The screenshot shows the 'Email Setting Page' with the following fields and values:

- Email Amount:** 1
- Index:** 1
- SMTP Server IP (IP or Domain Name):** mstp.icpdas.com
- Authentication**
- Login ID:** alan_jhu
- Password:** [Redacted]
- Sender Name:** Alan Jhu
- Sender Email Address:** alan_jhu@mstp.icpdas.com
- 1st Receiver Email Address:** service@icpdas.com
- 2nd Receiver Email Address:** [Empty]
- 3rd Receiver Email Address:** [Empty]
- 4th Receiver Email Address:** [Empty]
- 5th Receiver Email Address:** [Empty]
- Subject:** Device Monitoring
- Content:** The temperature of device is \$m4ai0

At the bottom of the page, there is a **Save** button. The form also includes a note: '(Note: The length of the message cannot exceed 160 characters.)' and a footer with 'AI', '4:1-7012', 'Ch. 0', and an 'Add' button.

4. Click on “Data Logger Setting” to get into the setting page.



5. On the “Data Logger Setting” page, check the box in front of the “Enable Data Logger” to start the data logger function and input the following data:
 - i. In the “File Name” field, input the data log file name. This name has to be in English or numbers.
 - ii. In the “Data Format” field input the data you’d like to store. In this case, please input “\$m4ai0”- indicates the water level data AI channel 0 detected. For more detailed information regarding parameter settings, please refer to the manual.
 - iii. Check the box in front of the “Sampling Period” to enable period recording function and select “5 mins” from the dropdown list.
 - iv. Select “1 hour” from the dropdown list for specifying time period to close the log file.
 - v. In the “Log File Sending Attribute” section, check both boxes in front of “Email” and “FTP”. In the Email Index field, select “1” (the Email that is previously being set as the one to send the log file).
 - vi. In the “FTP” section, input the following information as indicated: IP, Port, Login ID, Password, FTP Path and Timeout. In the “Time to Upload” field, select Every day at “0” o’clock. And then click “Save” button to save the settings.

Data Logger Setting Page

Enable Data Logger

File Name

Data Format

Sampling Period **Enable**

Close Log File

Log File Sending Attribute

Email
 (Send as attachment when the log file is closed)

FTP

IP

Port

Login ID **Anonymous**

Password

FTP Path

Timeout (milliseconds)

Time to Upload Log file is closed
 Every day at o'clock

6. Click on "3.Rules Setting" 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.

Enable	No.	Edit	Status
<input checked="" type="checkbox"/>	Rule1	<input type="button" value="Edit"/>	
<input type="checkbox"/>	Rule2	<input type="button" value="Edit"/>	
<input type="checkbox"/>	Rule3	<input type="button" value="Edit"/>	

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.

The screenshot shows the "Rule1 Setting Page" interface. At the top, there is a "Description" field. Below it is a table with three columns: "IF", "THEN", and "ELSE". The "IF" column has three rows: "Condition1", "Condition2", and "Condition3". The "THEN" column has three rows: "Action1", "Action2", and "Action3". The "ELSE" column has three rows: "Action1", "Action2", and "Action3". A red box highlights the dropdown menu for "Condition1" in the "IF" column, which is currently set to "None". The dropdown menu is open, showing options: "None", "AI", "DI", and "DI Counter". A red arrow points from the "AI" option to the edit button (a small square with a pencil icon) next to the "Condition1" field. Below the table are "Clear" and "Save" buttons.

9. In the “Module & Channel” field, select “4:I-7012” and Ch “0”; in the “Operator” field, select “>” and in the “Value” field, select “Assign Value as” and “10” from the dropdown list. Click “Save” button to save the settings and get back to the “Rule1 Setting Page”.

The screenshot shows the "AI Condition Setting" page. It has three main fields: "Module & Channel", "Operator", and "Value". The "Module & Channel" field contains "4:I-7012" and "Ch. 0". The "Operator" field contains ">". The "Value" field contains "Assign Value as" and "10". A red box highlights these three fields. Below them is a "Save" button, which is also highlighted with a red box and a red arrow pointing to it.

10. In the “THEN” section, in the “Action1” field, select “Data Logger” from the dropdown list; click the button next to the “Action 1” field as indicated to get into the “Data Logger 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 “Action” field, select “Start” from the dropdown list. Click “Save” button to save the settings and get back to the “Rule1 Setting Page”.

Data Logger Action Setting

Action

Save

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

Rule1 Setting Page

Description

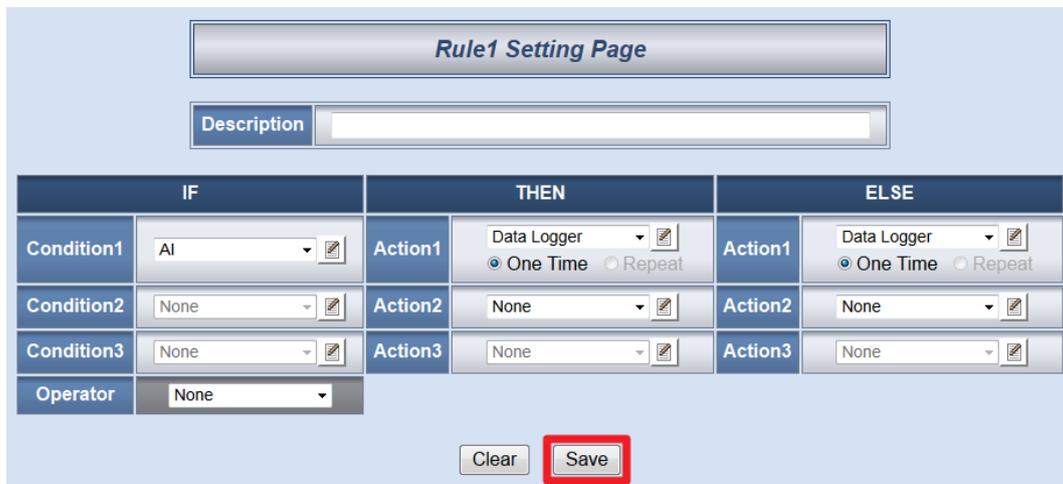
	IF		THEN		ELSE
Condition1	AI	Action1	Data Logger One Time Repeat	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Clear Save

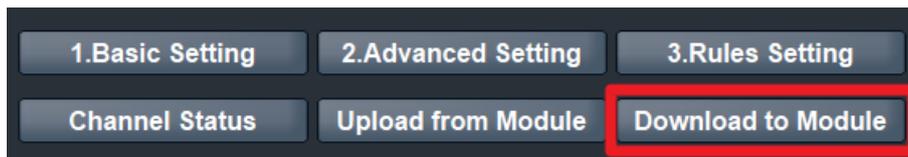
13. In the “Action” field, select “Stop” from the dropdown list. Click “Save” button to save the settings and get back to the “Rule1 Setting Page”.



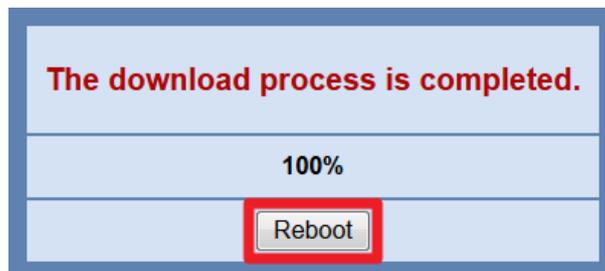
14. Make sure all Rule 1 settings are accurate, click “Save” button to save the changes.



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



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 > 10
< THEN >
 Data Logger Start (One Time)
< ELSE >
 Data Logger Stop (One Time)