

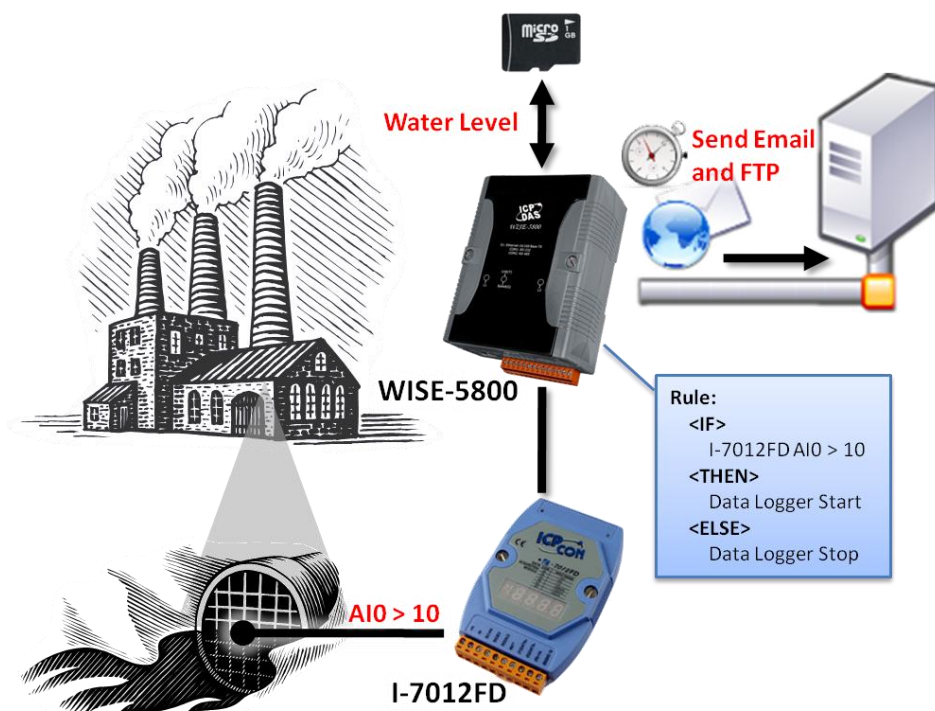
# WISE-580x Data Logger

## 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.

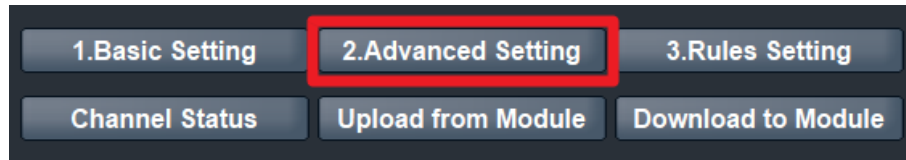


- **Steps :**

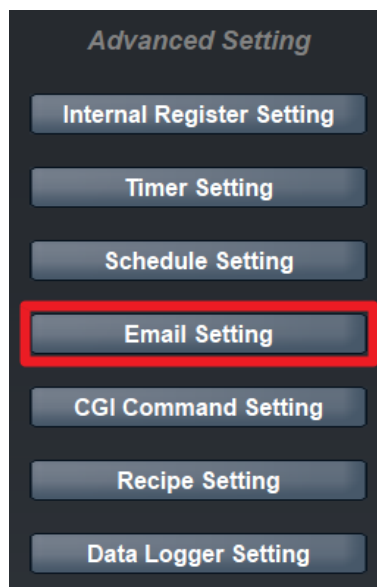
0. In this case, we will demo how to perform Data Logger settings, the I/O Module setting part will be skipped in this section. If you want to know more regarding I/O Module settings, please go to WISE-580x AI Attribute

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.

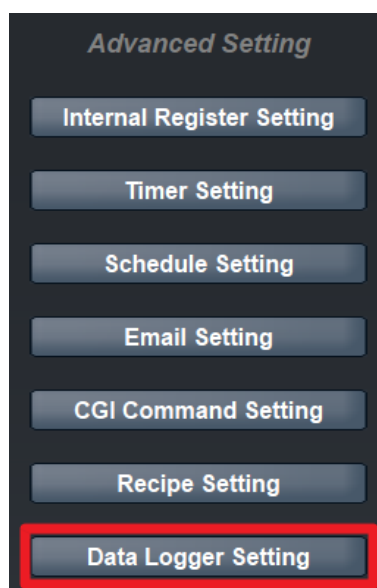


3. On the Email Setting page; specify the Email Amount to be “1”, and input related information for index number 1 Email such as: SMTP Sever IP (If the server requires authentication, please check the box in front of “Authentication” and input the Login ID and Password), Sender Name, Sender Email Address 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 various input fields. Red boxes and arrows highlight the following fields and their values:

- Email Amount:** 1
- Index:** 1
- SMTP Server IP (IP or Domain Name):** mstp.icpdas.com
- Authentication:** ☒ 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
- Save button:** Save

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**

<input checked="" type="checkbox"/> <b>Enable Data Logger</b>	
File Name	Log
Data Format	\$m4ai0, AI 4:I-7012 Ch. 0 Add
Sampling Period	<input checked="" type="checkbox"/> Enable 5 mins
Close Log File	Every 1 hour(s)

**Log File Sending Attribute**

<input checked="" type="checkbox"/> <b>Email</b>	Index 1 (Send as attachment when the log file is closed)
<input checked="" type="checkbox"/> <b>FTP</b>	IP 192 . 168 . 100 . 34
	Port 21
	Login ID wise <input type="checkbox"/> Anonymous
	Password .....
	FTP Path /Log
	Timeout 3000 (milliseconds)
	Time to Upload <input type="radio"/> Log file is closed <input checked="" type="radio"/> Every day at 0 o'clock
<b>Save</b>	

6. Click on "3.Rules Setting" to get into the Rule Setting page.

1.Basic Setting	2.Advanced Setting	<b>3.Rules Setting</b>
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	<b>Edit</b>	
<input type="checkbox"/>	Rule2	Edit	
<input type="checkbox"/>	Rule3	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.

Rule1 Setting Page			
Description			
IF		THEN	ELSE
Condition1	None	Action1	None
Condition2	AI	Action2	None
Condition3	DI Counter	Action3	None
Operator	None		

Clear Save

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”.

AI Condition Setting		
Module & Channel	Operator	Value
4:I-7012 Ch. 0	>	Assign Value as 10

Save

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		

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:

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 <input checked="" type="radio"/> Repeat <input type="radio"/>	Action1: None
Condition2	None	Action2: None	Action2: None
Condition3	None	Action3: None	Action3: None
Operator	None		

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”.

**Data Logger Action Setting**

Action: Stop

Save

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

**Rule1 Setting Page**

Description:

	IF	THEN	ELSE
Condition1	AI	Action1: Data Logger <input checked="" type="radio"/> One Time <input type="radio"/> Repeat	Action1: Data Logger <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.

**The download process is completed.**

100%

Reboot



- **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)