

# WISE-52xx E-mail Application Example



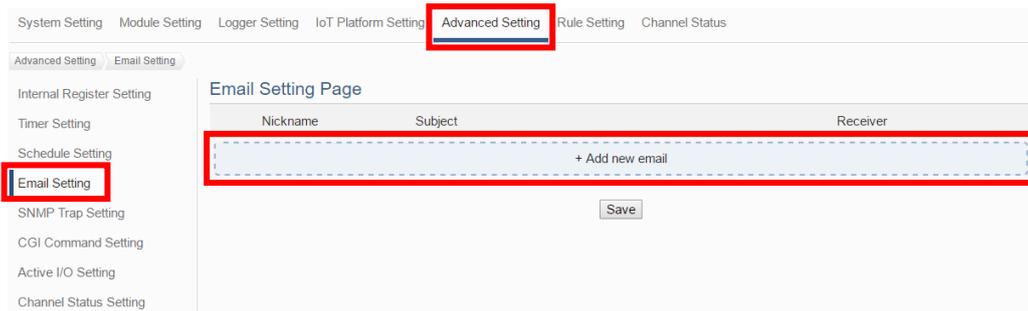
- **Scenario :**

Assume a greenhouse equips a WISE-5231 controller for environment monitoring. The temperature sensor is connected to the AI Channel 0 on an I-7018Z module that is connected to the WISE-5231 controller, when the temperature sensor detects the greenhouse temperature reaches 75 degree, WISE will immediately send Email to inform related personnel for emergency response.



- **Steps :**

1. In this case, we will focus on how to perform Email settings. The I/O module setting will be skipped in this section. In the example, it use one I-7018Z module. The I-7018Z is connected to the WISE-5231's COM3, and the "Module No" is 2.
2. Open the WISE WEB page and get into the "Advanced Setting" page. On the Advanced Setting page, click on "Email Setting" to get into the setting page, and then click on "+ Add new email" to set email information.



3. About the Email setting, please follow the description as below :

- Enter the information in the "Nickname" (In this example, the Email's nickname is ICPDAS), "SMTP Server", "Port", "Authentication", "Sender Name", "Sender Email Address" and "Receiver Email Address" (User can click "Add" button to add more receiver email address). After complete above setting, click "Send" button in the "Email Setting Test" section, then WISE-5231 will send a test Email to the first receiver's email address for the verification of the Email sending operation.

※ WISE-5231 provide four public SMTP servers (Google Gmail, Yahoo Mail, Microsoft Outlook/Hotmail and AOL Mail) for selection. After select one of the above SMTP servers, WISE will automatically complete the "Port" and "Security" setting related to the SMTP server you select.

- If the SMTP server setting is "Google Gmail", and it fails to send email, please refer to Appendix "[Use APP password to sign in Google Gmail with 2-step verification](#)" to modify the Gmail setting.

- After complete the Email Server & Email Address setting, continue to enter the Email subject in the “Subject” field, and the content in the “Content” section. You can select the “Edit” tab of the “Content” section to enter the content of Email. In addition, WISE provides encoded strings for users to add current I/O channel value or Internal Register value into the Email content by select the “Interface”, “Module” and “Channel” from the dropdown list, and click “Insert” to add channel value encoded string into the Content. Click the “View” tab, the content and the channel encoded string will be displayed in the real index format of the channel for user to check the settings in an easy way. After all settings are completed, click on “OK” to confirm the setting and return to Email setting page. (In this example, the variable \$C3D1ai0 indicates the AI channel 0 value of I-7018Z on the module 2 connected to COM3.)

### Email ICPDAS Setting

*Nickname	ICPDAS
Description	

### SMTP Server Setting

*SMTP Server	<input type="radio"/> mstp.icpdas.com <input type="radio"/> Google Gmail - smtp.gmail.com
Port	25
Authentication	<input checked="" type="checkbox"/> Enable *ID: service Password: ..... Security: TLS

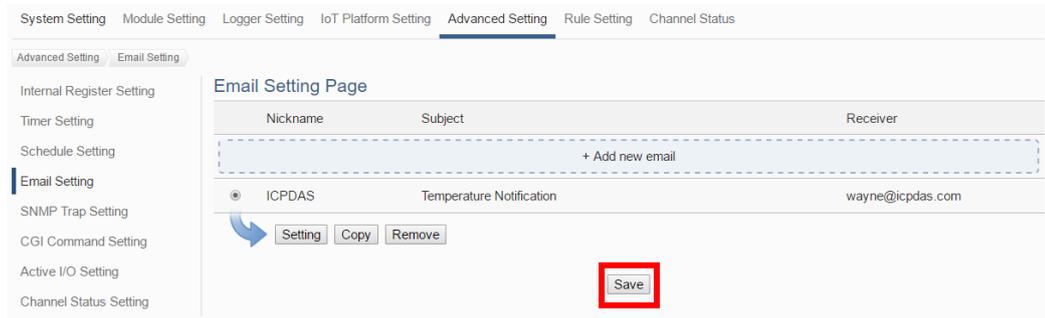
### Email Address Setting

*Sender Name	service
*Sender Email Address	service@icpdas.com
*Receiver Email Address	wayne@icpdas.com <input type="button" value="Remove"/> <input type="button" value="Add"/>
Email Setting Test	<input type="button" value="Send"/>

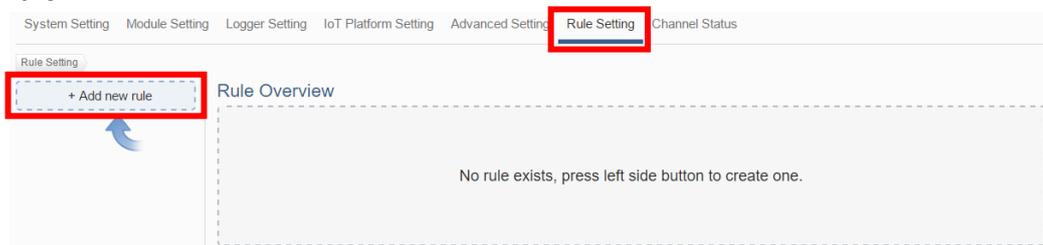
### Email Content Setting

*Subject	Temperature Notification						
*Content	<div style="border: 1px solid #ccc; padding: 5px;"><input type="button" value="View"/> <input type="button" value="Edit"/> Current temperature: 32.0 degrees</div> <table><tr><td>Interface</td><td>COM3</td></tr><tr><td>Module</td><td>I-7018Z(2)</td></tr><tr><td>Channel</td><td>AI Ch. 0</td></tr></table> <input type="button" value="Insert"/>	Interface	COM3	Module	I-7018Z(2)	Channel	AI Ch. 0
Interface	COM3						
Module	I-7018Z(2)						
Channel	AI Ch. 0						
	<input type="button" value="OK"/> <input type="button" value="Cancel"/>						

- After you finish all the Email setting, click “Save” button to save the settings.



- Get into “Rule Setting” page and click “+ Add new rule” to create the logic rule.



- In this example, the temperature sensor is connected to the AI Channel 0 on an I-7018Z module that is connected to the WISE-5231 controller, when the temperature reaches 75 degree, WISE will immediately send Email. This rule setting is as below:

- IF Condition Setting: Click “ICP DAS Module -> AI” to get into the “AI Condition Setting” page, after finish setting click “OK” button to confirm the settings and return to the Rule settings page. This IF Condition setting is as below:

Module & Channel

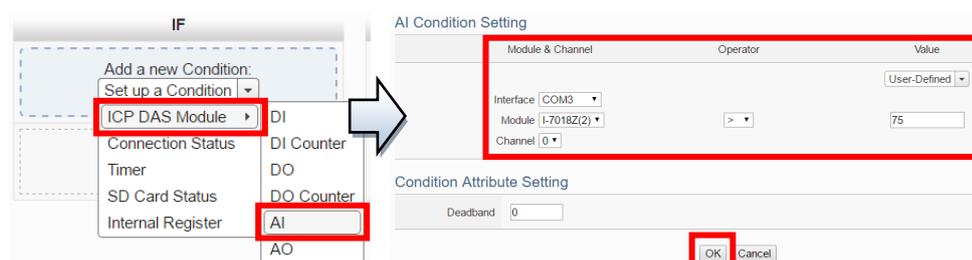
Interface : COM3

Module : I-7018Z(2)

Channel : 0

Operator : >

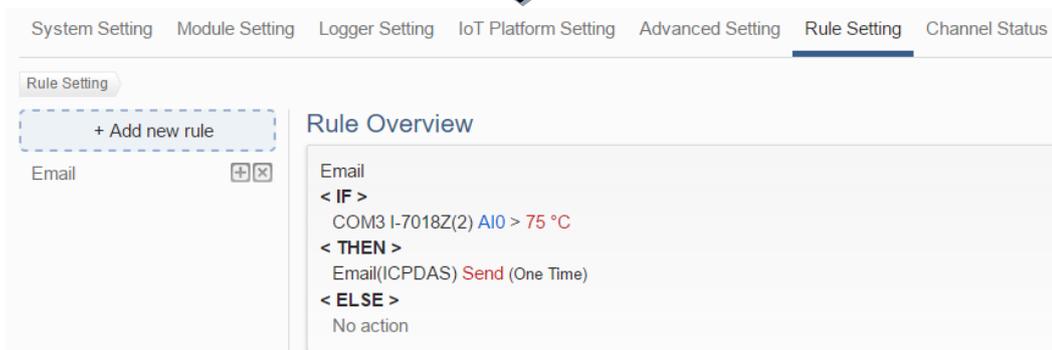
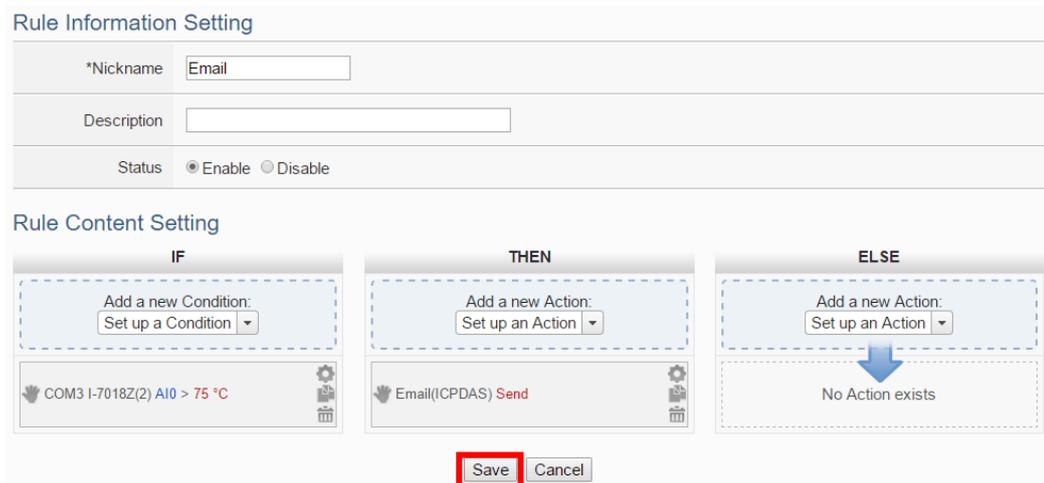
Value : User-Defined(75)



- THEN Action setting: Click “Email” get into the “Email Action Setting” page, select the “Email” nickname from the dropdown list and confirm the “Email Information”. After finish and confirm the settings, click “OK” button to return to the Rule settings page.



7. Click “Save” button to complete the rule setting.

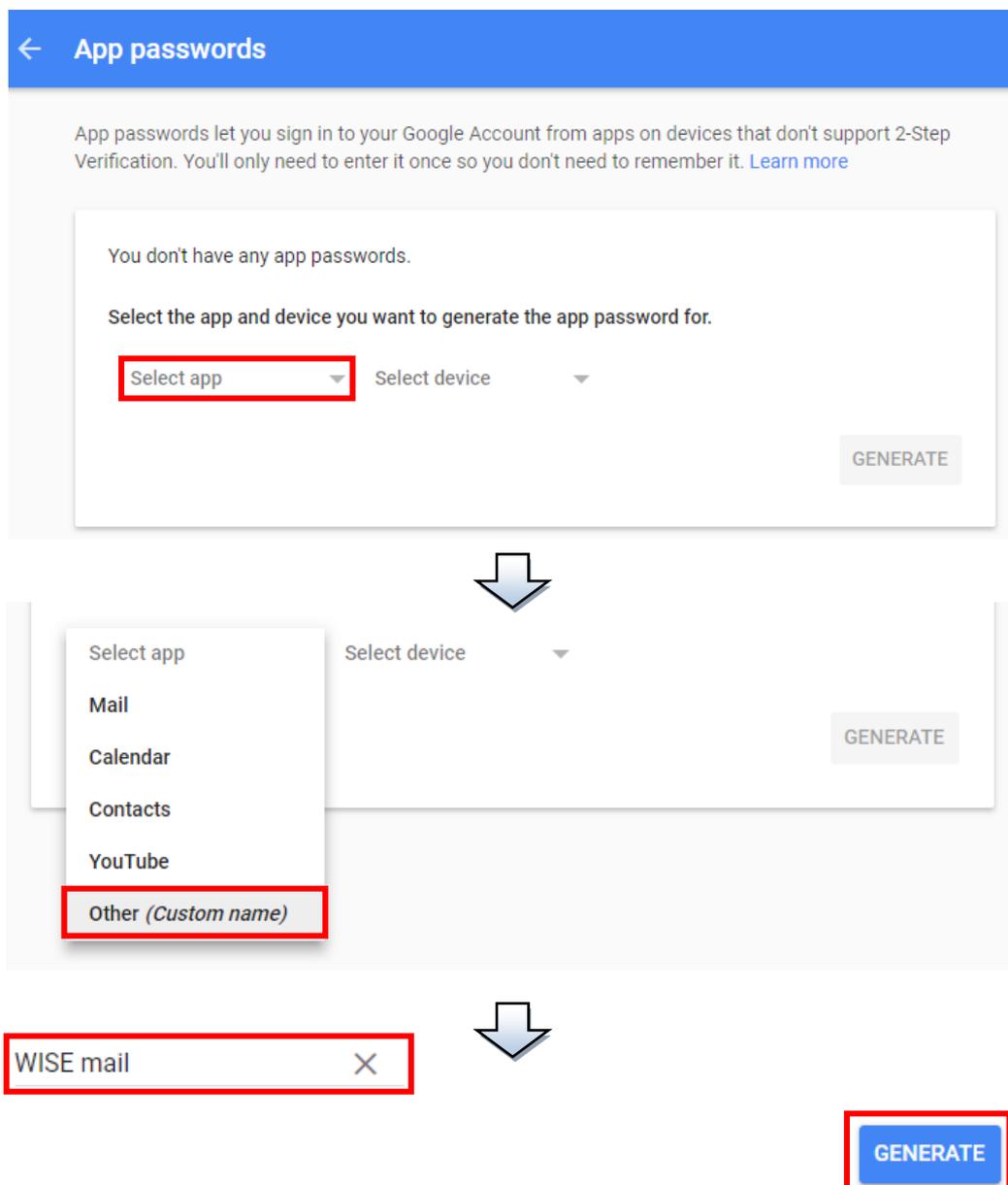


8. Verify the rule setting on the "Rule Overview" Page again, and then click the  “Save” button on the right upper of WISE-5231 Web page to save all parameter settings and Rule settings to WISE-5231. After the

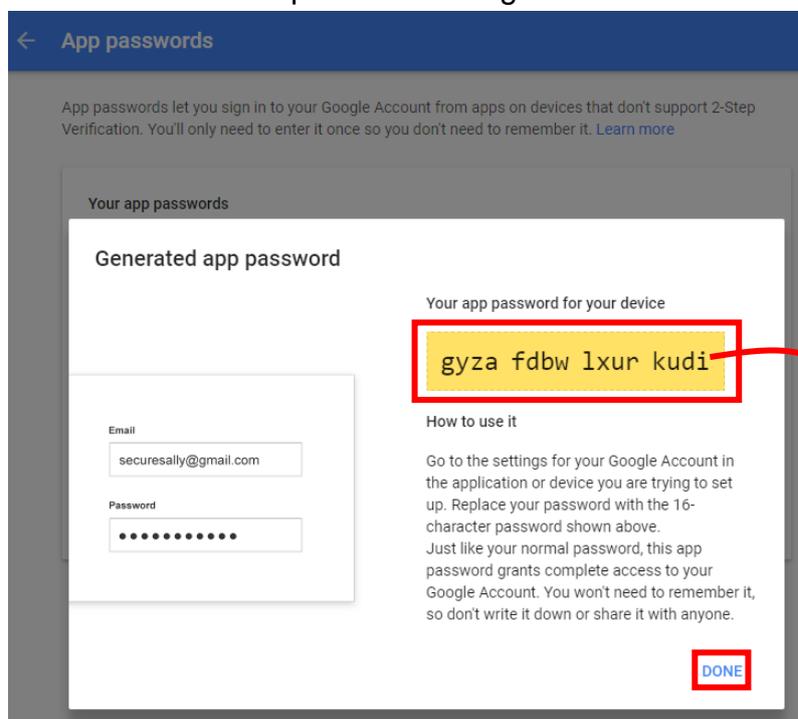
save operation, now the WISE-5231 will start to run the rules that have been downloaded.

- **Appendix: Use APP password to sign in Google Gmail with 2-step verification**

1. Before setting the APP password, Visit the Google "[2-Step Verification](#)" page to verify that is enabled.
2. Then visit the Google "[APP passwords](#)" page.
3. In the "APP passwords" page, select "Other (Custom name)" from "Select app" dropdown list and enter a name for the device (In this example, the name is WISE mail), and then click the "GENERATE" button.



4. A “Generated app password” page will be displayed. Copy the app password in the yellow bar (16 character code) and paste it to the Gmail’s password field on the “Email Setting” page (Advanced Setting→Email Setting→SMTP Server Setting→Authentication). Finally, click “DONE” button to complete the setting.

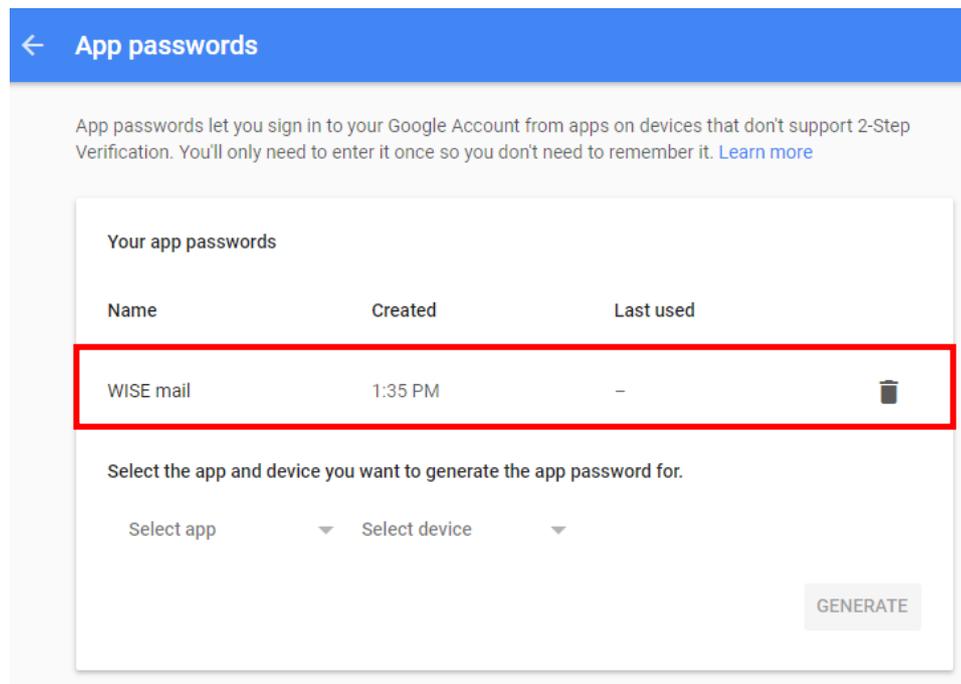


### SMTP Server Setting

*SMTP Server	<input type="radio"/> Specify an address of SMTP server
	<input checked="" type="radio"/> Google Gmail - smtp.gmail.com
Port	465
Authentication	<input checked="" type="checkbox"/> Enable
	*ID <input type="text" value="wei"/>
	Password <input type="password" value="....."/>
Security	SSL

- ※Replace your password with the app password (16 character code) to approve Google 2-step verification.
- ※Please Note: After complete above steps, you cannot check this app password again. The Google “APP passwords” page only displays your app password list. If you want to get the app password again, you

have to follow the step to create new app password again, and you can click “” button to remove the useless app password.



For more detailed description of Google “Sign in using App Passwords”, please refer to the website below:

<https://support.google.com/accounts/answer/185833>