

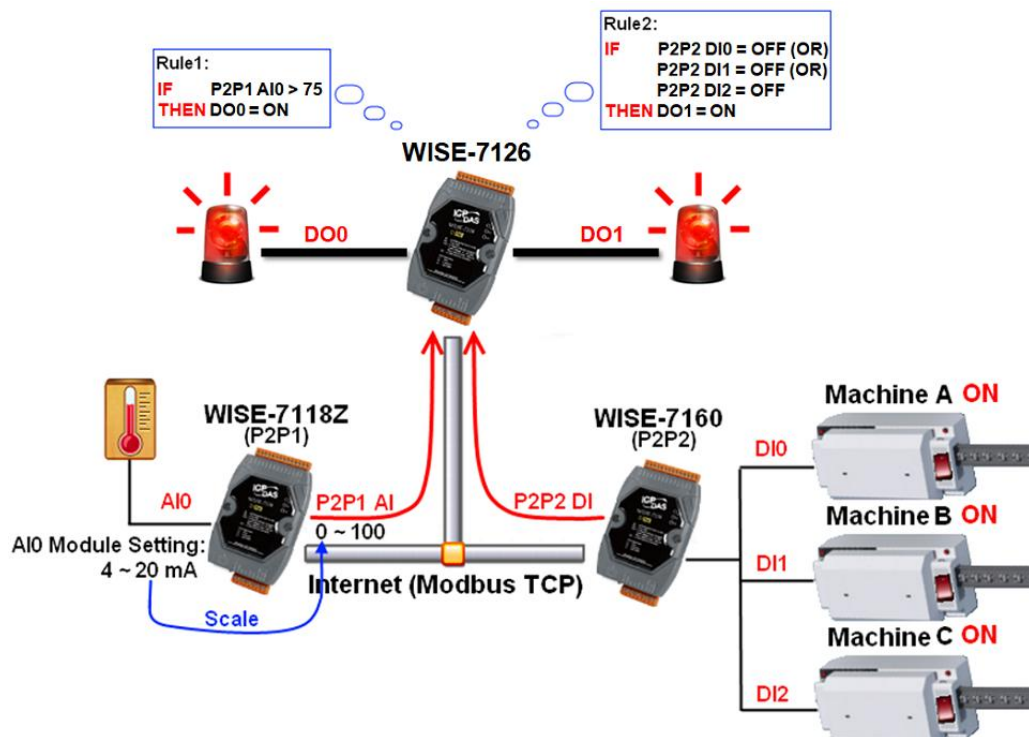
WISE Advanced P2P

Application Example



● Scenario :

Assume there are three WISE controllers (WISE-7118Z, WISE-7160 & WISE-7126), in which WISE-7118Z is used to monitor the temperature of the factory area, WISE-7160 is used to monitor the status of the devices, and WISE-7126 will be turn on the warning light. Advanced P2P function allows WISE-7126 to gather the I/O channel data from WISE-7118Z and WISE-7160 for further IF-THEN-ELSE logic evaluation and perform corresponding actions. When the temperature exceeds a certain value or some device is in an emergency situation, WISE-7126 can turn on the warning light and real-time inform the related personals.



● Steps :

1. Open the WISE-7118Z WEB page, set up the input range of AI0 channel to be 4 ~ 20mA and Scale range to be 0 ~ 100. Please refer to "AI Attribute Introduction" for more detail description. Please note: All settings will not be saved in WISE controller until "Download to Module" operation is performed.

- Open the WISE-7126 WEB page. Please note: the following steps must be completed on WISE-7126.
- Get into P2P Setting pages, select 2 from the dropdown list of the Amount filed, set up P2P 1 module is WISE-7118Z, P2P 2 module is WISE-7160, IP and other information, then Click “Save” button to save the settings.

P2P Setting Page	
P2P Amount	2 ▼
Index	1 ▼
IP	123 123 123 123
Modbus TCP NetID	1
Modbus TCP Port	502
Scan Interval	5 (Sec) (Range: 0 ~ 65535)
Polling Timeout	500 (millisecond(s)) (Range: 1 ~ 10000)
Connection Timeout	3 (Sec) (Range: 0 ~ 65535)
Disconnection Retry Interval	5 (Sec) (Range: 3 ~ 65535)
Module Type	WISE-7100 / 7200 ▼
Module Name	WISE-7118Z ▼
Save	



P2P Setting Page	
P2P Amount	2 ▼
Index	2 ▼
IP	123 123 123 124
Modbus TCP NetID	1
Modbus TCP Port	502
Scan Interval	5 (Sec) (Range: 0 ~ 65535)
Polling Timeout	500 (millisecond(s)) (Range: 1 ~ 10000)
Connection Timeout	3 (Sec) (Range: 0 ~ 65535)
Disconnection Retry Interval	5 (Sec) (Range: 3 ~ 65535)
Module Type	WISE-7100 / 7200 ▼
Module Name	WISE-7160 ▼
Save	

- Get into the Rule Setting WEB page, assume there is no rule existed in the Rule Overview section

ICP DAS Web Inside, Smart Engine	
Web Anywhere, Automation Anywhere!	<div> 1.Basic Setting 2.Advanced Setting 3.Rules Setting </div> <div> Channel Status Upload from Module Download to Module </div>




- 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	Edit	
<input type="checkbox"/>	Rule2	Edit	
<input type="checkbox"/>	Rule3	Edit	
<input type="checkbox"/>	Rule4	Edit	

- Select P2P as IF Condition for “Rule 1”, and then click on the right side  button to edit detail information
- Get into P2P Condition Setting page, select 1 from the dropdown list of the Index field for WISE-7118Z, and then click on the right side  button for Remote AI Condition Setting.
- Get into Remote AI Condition Setting page, set up “AI0 > 75” for condition setting, then Click “Save” button to save the settings and return to P2P Condition Setting page. On the P2P Condition Setting page, Click “Save” button to return to the Rules 1 Setting Page.

Rules Setting Page


Description

IF		
Condition1	P2P	
Condition2	None	
Condition3	None	
Operator	None	

P2P Condition Setting

Index

Module


P2P Condition Setting 

Cancel Save

Remote AI Condition Setting

Module & Channel	Operator	Value
WISE-7118Z Ch. 0	>	Assign Value as <input type="text" value="75"/>

Cancel Save

- Select DO as THEN ACTION for “Rule 1”, and then click on the right side  button to edit detail information.
- Complete “DO0 = ON” action setting, then click “Save” button to save the settings and return to Rules 1 Setting Page.

Rules Setting Page

Rule1

Description

IF		THEN		ELSE	
Condition1	P2P	Action1	DO	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

DO Action Setting

Module & Channel: WISE-7126 Channel 0

Channel Value: ON

11. Confirm settings for Rule 1 and then Click “Save” button to save the settings and return to Rules Setting Page.

Rules Setting Page


Rule1


Description

IF		THEN		ELSE	
Condition1	P2P	Action1	DO	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

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

Enable	No.	Edit	Status
<input checked="" type="checkbox"/>	Rule1	<input type="button" value="Edit"/>	OK
<input checked="" type="checkbox"/>	Rule2	<input type="button" value="Edit"/>	
<input type="checkbox"/>	Rule3	<input type="button" value="Edit"/>	
<input type="checkbox"/>	Rule4	<input type="button" value="Edit"/>	

13. Select P2P as IF Condition for “Rule 2”, and then click on the right side  button to edit detail information.

14. Get into the P2P Condition Setting page, select 2 from the dropdown list of the Index field for WISE-7160, and then click on the right side .

button for Remote DI Condition Setting. Set up DI0 = OFF for condition setting, then Click “Save” button to save the settings and return to P2P Condition Setting. In P2P Condition Setting, Click “Save” button to return to Rules 2 Setting Page.

Rules Setting Page

Description:

IF	
Condition1	P2P
Condition2	None
Condition3	None
Operator	None

P2P Condition Setting

Index: 2

Module: WISE-7160

P2P Condition Setting: DI

Cancel Save

Remote DI Condition Setting

Module & Channel: WISE-7160 Channel 0

Channel Value: OFF

Cancel Save

15. Please select OR in the Operator field.

Rules Setting Page

Rule2

Description:

IF	THEN	ELSE
Condition1: P2P	Action1: None	Action1: None
Condition2: None	Action2: None	Action2: None
Condition3: None	Action3: None	Action3: None
Operator: OR		

Clear Save

16. Repeat steps 14~15 to set up the secondary IF Condition setting as “P2P 2 DI1 = OFF” and the third IF Condition setting as “P2P 2 DI2 = OFF”.

17. Select DO as THEN ACTION for “Rule 2”, and then click on the right side button to edit detail information.

18. Complete “DO1 = ON” action setting, then click “Save” button to save the settings and return to Rules 2 Setting Page.

Rules Setting Page

Rule2

Description

IF		THEN		ELSE	
Condition1	P2P	Action1	DO	Action1	None
Condition2	P2P	Action2	None	Action2	None
Condition3	P2P	Action3	None	Action3	None
Operator		OR			

DO Action Setting

Module & Channel	WISE-7126	Channel 1
Channel Value	ON	

19. Make sure Rule 2's setting, then Click "Save" button to save the settings and return to the Rules Setting Page.


Rules Setting Page

Rule2

Description

IF		THEN		ELSE	
Condition1	P2P	Action1	DO	Action1	None
Condition2	P2P	Action2	None	Action2	None
Condition3	P2P	Action3	None	Action3	None
Operator		OR			

20. After finish the Rule editing, Click the "Download to Module" button to download edited rules from Web UI to WISE controller.


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● Rule Overview :

Rule Overview

Rule1(Enable)

Description:

< **IF** >

Remote1 WISE-7118Z AI0 > 75

< **THEN** >

WISE-7126 DO0 = ON (One Time)

Rule2(Enable)

Description:

< **IF** >

Remote2 WISE-7160 DI0 = OFF (OR)

Remote2 WISE-7160 DI1 = OFF (OR)

Remote2 WISE-7160 DI2 = OFF

< **THEN** >

WISE-7126 DO1 = ON (One Time)