

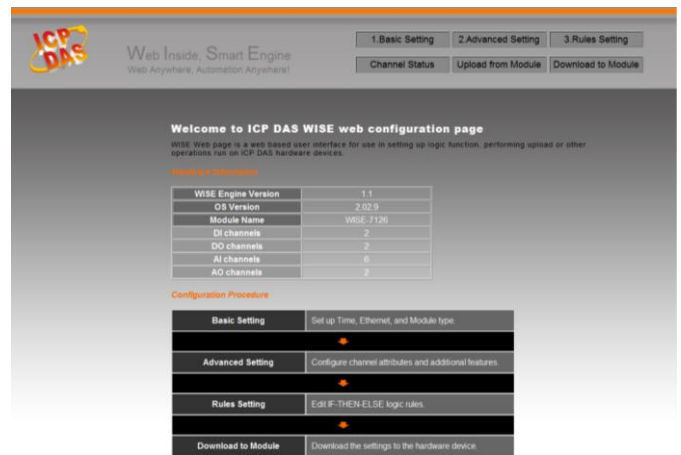
ICP DAS New Product Release: Web-based Intelligent PAC controller- WISE v1.1

Web Anywhere, Automation Anywhere !

As far as modern automation requirements are concerned, all industries are facing the challenge of how to bring automation to a higher level and enhance the performance of their systems. To achieve this goal, many factors must be involved, such as: programming tool selection, program coding, program debugging and performance tuning, etc.. Each one of them could be truly a real headache, and always takes tremendous resources and time during the whole system development. Now the PAC controller leader-ICP DAS unveils the Web-based intelligent PAC controller - WISE v1.1 - a perfect automation solution that realizes features of **easy-to-use, easy-to-maintain, affordable, foster development process**, and comes with intuitive web-based tools. It takes **only 4 steps to complete the logic rules design** for the controller: Start Web Browser → Connect to WISE’s Web Server → Edit Logic Rule Setting → Download Logic Rule to WISE. By WISE, user can minimize the investment in time, labor and cost spent on automation system development.



▲WISE System Architecture



▲WISE Controller Web Page



▲IF-THEN-ELSE Rule Editing

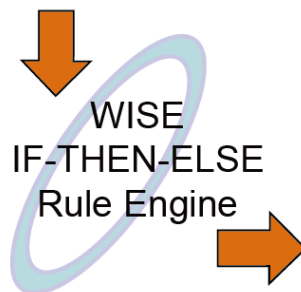
WISE offers a user-friendly and intuitive web site interface that allows users to implement IF-THEN-ELSE control logic on controllers **just a few clicks away; no programming is required**. With its powerful and easy-to-use features, it will minimize the learning curve, shorten time to market and dramatically reduce the labor and cost spent on system development. Through Web browser, users connect the built-in Web Server on WISE controllers to perform tasks such as IF-THEN-ELSE logic rule edition and upload. Then the Rule Engine will be set up to manage and deploy logic rules for the controllers. From now on, it will do actions accordingly, for examples: setting up I/O channel values, performing the Schedule or Timer tasks, sending Email or SMS message under a specific condition. In

addition, through the Modbus TCP protocol, SCADA package can be seamlessly integrated with WISE to perform real-time monitoring or control for I/O channel or system status.

In WISE v1.1, we provide more useful features such as: **calendar interface** for more convenient Schedule setting; **CGI commands** sending to interact with Surveillance Systems; **Recipe provided for Group Actions function**. Moreover, based on WISE **Advanced P2P function**, users can expand logic rule design from single WISE controller to multiple WISE controllers. Now all WISE controllers can freely share their status information such as DI/DO AI/AO channel value, Counter value or Internal Register value to each others. The Advanced P2P function of WISE greatly increases the convenience and minimizes human error especially when performing complicated logic rule design involves communication between multiple controllers.

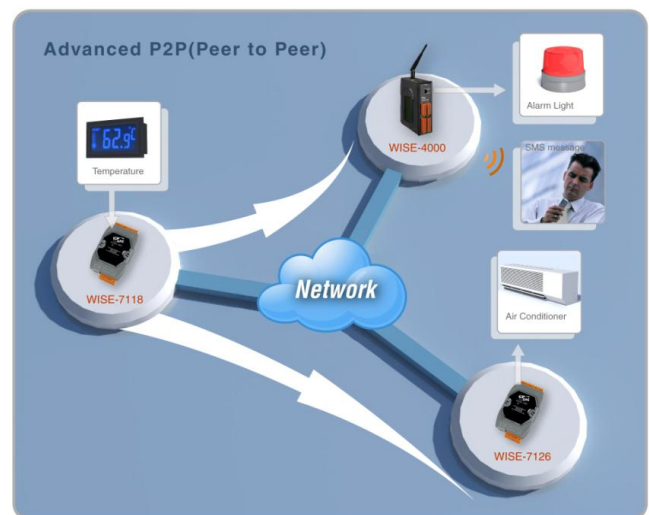
IF Conditions	
DI Channel	ON \ OFF \ ON to OFF \ OFF to ON \ Change
AI Channel	= \ > \ < \ >= \ <=(value)
Internal Register	
DI Counter	
DO Counter	= \ > \ < \ >= \ <=(value) \ Change
Timer	Timeout \ Not Timeout
Schedule	In Range \ Out of Range
P2P	DI \ AI \ DI counter \ DO counter \ IR
Rule Status	Enable \ Disable

THEN / ELSE Actions	
DO Channel	ON \ OFF \ Pulse Output
AO Channel	
Internal Register	Change the value
DI Counter	Reset
DO Counter	
Timer	Start \ Stop
Schedule	
SMS	
Email	Send
CGI Commands	
Recipe	Execute
P2P	DO(On/Off) \ AO \ IR
Rule Status	Enable \ Disable



▲ IF-THEN-ELSE Rule Engine Overview

▲ Calendar UI for WISE Schedule function



▲ WISE Advanced P2P function

Model	WISE-7105 (New!)	WISE-7115	WISE-7117	WISE-7118Z	WISE-7119	WISE-7126	WISE-7144
Ethernet Port	10/100 Base-TX with PoE (Power over Ethernet)						
I/O Channel	DI	-	-	-	-	-	2
	DO	4	-	4	6	4	2
	AI	8	7	8	10	8	6
	AO	-	-	-	-	-	2
Note	* Support Thermistor	* Support RTD	-	*Support Thermocouple		-	-

Model	WISE-7151	WISE-7160	WISE-7167	WISE-7901(D)	WISE-7902(D) (New!)	WISE-4000(D)
Ethernet Port	10/100 Base-TX with PoE (Power over Ethernet)					10/100 Base-TX
I/O Channel	DI	16	6	-	With X-Board With FRnet (maximum 128DI & 128DO)	3
	DO	-	6	8		3
	AI	-	-	-		8
	AO	-	-	-		-
Note		* Support Power Relay				* Support GPRS/ GSM for SMS Message

▲ WISE Controller Platform Specification

Model	WISE-71xx	WISE-790x(D)	WISE-4000(D)
Rule Configuration Website	Yes	Yes	Yes
I/O Function Supported	Yes	Yes (7901 With X-Board · 7902 With FRnet)	Yes
Modbus TCP Protocol Supported	Yes	Yes	Yes
36 IF-THEN-ELSE Logic Rule Supported	Yes	Yes	Yes
48 Internal Register Supported	Yes	Yes	Yes
12 Timer Supported	Yes	Yes	Yes
12 Email Supported	Yes	Yes	Yes
12 CGI Commands Supported (New!)	Yes	Yes	Yes
12 Recipe Supported (New!)	Yes	Yes	Yes
8 P2P Supported (New!)	Yes	Yes	Yes
12 Schedule (with Calendar UI) Supported (New!)	-	Yes	Yes
12 SMS Supported	-	-	Yes

▲ WISE Controller Software Function

Why WISE ?

- **Just a few clicks on the mouse to deploy the logic rules**, no programming is required. Dramatically reduce the labor and cost spent on system development.
- **No extra software tool is required**; all operations can be done through the Web browsers.
- **IF-THEN-ELSE logic rules** execution ability.
- In addition to IO control and monitoring, **Timer and Schedule functions** are supported for periodic operation.
- **Real Time message** sending via SMS and Email.
- **CGI command** sending for interaction with Surveillance system.
- **Recipe for Group Actions** operation provided.
- **Advanced P2P function** provided; all WISE controllers can freely share I/O status information to each others; enables real-time interactions between the controllers.
- Support **Modbus TCP Protocol** that enables seamless integration with SCADA software.
- Wide range of **I/O function modules** provided that allows users to find best solutions to meet their specific requirements.
- **PoE(Power over Ethernet)** for simplifying system design, reducing wiring cost and saving space.

WISE features Easy-to-Use Web Interface, provides wide range I/O modules to choose from, offers full-functioned software tools and enables seamlessly integration with SCADA package, etc., WISE is your best choice in Building Automation, Factory Automation, Machine Automation, Equipment Remote Maintenance/Diagnosis/Monitoring, Facility management and Environment Monitoring applications. For more information about WISE product, please visit **WISE WEB site** (<http://wise.icpdas.com>) or **ICP DAS Web site** (<http://www.icpdas.com>).