



WISE-7167 8-Channel Power Relay Output PoE Module

### Relay Output

#### Features

- Built-in Web Server for IF-THEN-ELSE rule setting
- Built-in IF-THEN-ELSE rule enigne for logic operation
- No more programming. Just click and get done!
- Support IO, Counter, Timer, Email operations
- Modbus/TCP Protocol for SCADA Software Seamless Integration

PoE

- IEEE 802.3af-compliant Power over Ethernet (PoE)
- 10/100 Base-TX Ethernet
- 2-way Isolation/ESD Protection
- DO Type: 8 Power Relay (Form A)

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#### Introduction.

WISE (Web Inside, Smart Engine) is a product series developed by ICP DAS that functions as control units for use in remote logic control and monitoring in various industrial applications. 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 poweful and easy-to-use features, it will innimize the learning curve, shorten time to market and dramatically reduce the effort and cost spent on system development.

WISE-7167 follows IEEE 802.3af-compliant (classification, class 1) Power over Ethernet (PoE) specification. It allows receiving power from PoE enabled network by Ethernet pairs (Category 5 Ethernet cable). This feature provides greater flexibility and higher efficiency therefore simplifying systems design, saving space, reducing cables and eliminating the requirement for dedicated electrical outlets. Meanwhile, in case under a non-PoE environment, WISE-7167 will still be able to receive power from auxiliary power sources like A cadptes or battery, etc.

This module WISE-7167 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It features 8-channel power relay outputs. Each power relay supports contact rating as 5 A @ 250 V/c or 5 A @ 30 V/c.

### Applications.

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote diagnosis and Testing Equipment, etc.

## I/O Specifications.

Relay Output		
Output Cha		8
Output Type		Power Relay, Form A (SPST N.O.)
Operating	Voltage Range	250 VAC/30 VDC
Max. Load	Current	5.0A/channel at 25 °C
Operate Time		6 ms
Release Time		3 ms
Electrical	VDF	5A 250 V <sub>AC</sub> 30,000 ops (10 ops/minute) at 75 °C
Life	VDE	5A 30 V <sub>DC</sub> 70,000 ops (10 ops/minute) at 75 °C
(Resistive	UI	5A 250 Vac/30 Voc 6,000 ops.
Load)	0L	3A 250 Vac/30 Vbc 100,000 ops.
Mechanical Life		20,000,000 ops. at no load (300 ops./minute)

# System Specifications

System	
CPU	16-bit CPU
SRAM	512 KB
Flash Memory	512 KB
EEPROM	16 KB
Dual Watchdog	Yes
Communication	
PoE Ethernet Port	10/100 Base-TX (With Link, Activity LED Indicator) and automatic MDI/MDI-X
2-Way Isolation	
Ethernet	1500 VDC
Relay Output	3000 Vms
LED Indicators	
PoE	PoE On
L1	Run
L2	Link/Act
L3	10/100M
Power Requirements	
IEEE 802.3af	Class 1
Required Supply Voltage	Powered by Power over Ethernet (PoE) or auxiliary power +12 Vbc $\sim$ +48 Vbc (non-regulated)
LED Indicator	Yes
Power Consumption	0.14 A @ 24 Vbc Max.
Mechanical	
Dimensions (W x H x D)	72 mm x 123 mm x 35 mm
Installation	DIN-Rail or Wall mounting
Environment	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +80 °C
Humidity	5 ~ 90% RH, non-condensing

# Software Specifications

Functions	
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions
48 Internal Registers	Hold temporary variables and read/write data via Modbus/TCP address.
12 Timers	Delay / Timing functions.
12 Emails	Send Email messages to pre-set Email receivers.
12 CGI Commands	Send pre-set CGI commands.
12 Recipes	Set up THEN/ELSE action groups.
8 P2P remote modules	Set up the connection information for the remote WISE modules.
Modbus/TCP Protocol	Real time control and monitoring I/O channels and system status of controllers via SCADA software.

IF Conditions	
Internal Register	= ` > ` < ` >= ` <=(value)
DO Counter	= ` > ` < ` >= ` <=(value) ` Change
Timer	Timeout   Not Timeout
P2P	DI · AI · DI counter · DO counter · IR
Rule Status	Enable · Disable



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

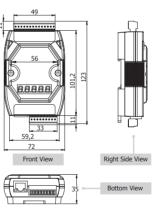
### Pin Assignment \_



### Wire Connection \_\_\_\_

Digital Output	Readback as 1	Readback as 0
	Relay On	Relay Off
Relay Output	RLx.COM Relay Close LOAD RLx.NO RLx.NO RLx.NO RLx.NO RLx.NO	RLx.COM Relay Open RLx.NO RLx.NO RLx.NO Channels

### Dimensions (Unit: mm) \_



### Ordering Information \_\_\_\_\_

	WISE-7167	8-Channel Power Relay Output PoE Module (RoHS)
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#### Accessories\_

GPSU06U-6	24V/0.25A, 6 W Power Supply
MDR-20-24	24V/1A, 24 W Power Supply with DIN-Rail Mounting
NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch (RoHS)
NS-205PSE CR	Unmanaged 5-Port Industrial PoE Ethernet Switch (RoHS)