#### WISE (Web Inside, Smart Engine)

Ethernet I/O Modules



**WISE-7167** 

#### 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
- 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)









#### ■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 IP-TIEN-ELSE control logic on controllers just a few clicks away; no programming is required. With its powerful and easily-buse features, it will inminize the learning running short more market and dramatically reduce the effort and cost sperion or spirate needscopenert.

WISS-7.167 follows IEEE 802.3ef-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 samplifying systems design, saving space, reducing cables and eliminating the requirement for declicated electrical outlets. However from available your sources like A darkers 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 Vz.c or 5 A @ 30 Vz.c.

#### Applications \_

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

#### I/O Specifications.

Relay Output		
Output Channels		8
Output Type		Power Relay, Form A (SPST N.O.)
Operating Voltage Range		250 Vac/30 Voc
Max. Load Current		5.0A/channel at 25 °C
Operate Time		6 ms
Release Time		3 ms
Electrical	VDF	5A 250 Vac 30,000 ops (10 ops/minute) at 75 °C
Life	VDL	5A 30 Voc 70,000 ops (10 ops/minute) at 75 °C
(Resistive	UL	5A 250 Vac/30 Vac 6,000 ops.
Load)		3A 250 Vac/30 Voc 100,000 ops.
Mechanical Life		20,000,000 ops. at no load (300 ops./minute)

#### ■ System Specifications \_\_

6.1		
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 Voc	
Relay Output	3000 V <sub>rms</sub>	
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 $Voc \sim +48 Voc$ (non-regulated)	
LED Indicator	Yes	
Power Consumption	0.14 A @ 24 Voc 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	

WISE-71xx Series (Web based PoE

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### ■ 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	

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



#### Pin Assignment

Terminal No.	Pin Assignment
E1	RJ-45
01	RL6 NO
02	RL6 COM
03	RL7 NO
04	RL7 COM
05	N/A
06	N/A
07	N/A
08	(R)+Vs
09	(B)GND

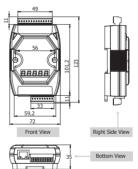


Terminal No.	Pin Assignment
23	RL5 COM
22	RL5 NO
21	RL4 COM
20	RL4 NO
19	RL3 COM
18	RL3 NO
17	RL2 COM
16	RL2 NO
15	RL1 COM
14	RL1 NO
13	RL0 COM
12	RL0 NO
11	N/A
10	N/A

#### ■ Wire Connection \_\_\_

Digital Output	Readback as 1	Readback as 0
	Relay On	Relay Off
Relay Output	RLx.COM Relay Close  ACIDC To other to smooth	RLx.COM Relay Open  AC/DC

## ■ Dimensions (Unit: mm) \_



# WISE-7167

WISE-71xx Series (Web based PoE)

#### Ordering Information -

WISE-7167 8-Channel Power Relay Output PoE Module (RoHS)

#### 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	205PSE CR Unmanaged 5-Port Industrial PoE Ethernet Switch (RoHS)	

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