# **Fiche technique**



WISE (Web Inside, Smart Engine)



#### 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 use-friendly and intuitive web site interface that allows users to implement IF-HTEN-ELSE control logic on controllerity just a few clicks away, no programming is required. With its powerful and easy-to-use failures, its will iminize the iseming curve, shorten time to market and dramatically reduce the effort and cost speet on system development.

WISE-7151 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 floability and higher efficiency therefore simplifying systems design, saving space, reducing cables and eliminating the requirement for dedicated electrical utility. How more non-PoE environment, WISE-7151 will still bab be to receive power from anality power sources like A capters or battery etc.

This module WISE-7151 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It features 16-channel isolated wet contact digital inputs. Each digital input channel supports counter input.

#### Applications\_

\_\_\_\_ Zystem Specifications \_

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

### I/O Specifications \_

Digital Input		
Input Char	inels	16
Input Type		Wet Contact (Sink, Source)
On Voltage	Level	+10 Vpc ~ +50 Vpc
Off Voltage	e Level	+4 Vpc Max.
Input Impe	edance	10 kΩ
	Max. Count	65535 (16 bits)
Counters	Max. Input Frequency	50 Hz
	Min. Pulse Width	10 ms
Overvoltag	e Protection	+70 Vpc

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
I/O DI	3750 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 Voc ~ +48 Voc (non-regulated)
LED Indicator	Yes
Power Consumption	0.12 A @ 24 Vpc 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

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# Software Specifications.

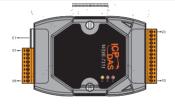
Functions	
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions
48 Internal Registers	Hold temporary variables and read/write data via 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 system status of controllers via SCADA software.

	IF Conditions
DI Channel	ON SOFF SON to OFF SOFF to ON SChange
Internal Register	= ` > ` < ` >= ` <=(value)
DI 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	IN13
02	IN14
03	IN15
04	IN.COM2
05	N/A
06	N/A
07	N/A
08	(R)+Vs
09	(B)GND

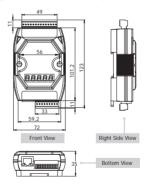


Terminal No.	Pin Assignment
23	IN12
22	IN11
21	IN10
20	IN9
19	IN8
18	IN.COM1
17	IN7
16	IN6
15	IN5
14	IN4
13	IN3
12	IN2
11	IN1
10	INO

## Wire Connection \_

Digital Input	Readback as 0	Readback as 1
	+10 ~ +50 Vpc	OPEN or <4 Vpc
Sink		
	+10 ~ +50 Vpc	OPEN or <4 Vpc
Source		

## Dimensions (Unit: mm) \_\_\_\_



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

WISE-7151 16-channel Isolation Digital Input PoE Module (RoHS)

# 🗖 Accessories

Cressolies		
	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)

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