



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 powerful and easy-to-se fatures, it will imminize the teaming cruck, store time to market and dramatically reduce the effort and cost spent on spectra on development.

WISE-7152 follows IEEE 802.3af-compilant (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 fiexibility and higher efficiency therefore simplifying systems design, saving space, reducing, cables and eliminating the requirement for dedicated electrical outsite. Neuminki, in case under a non-PG environment, VISE-7152 will ble abit to receive power fina valuality power sources like AC adapters or hattery, etc.

This module WISE-7152 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It features 8-channel isolated open collector outputs and 8-channel isolated wet contact digital inputs. Each output channel supports 650 mA current driving @ 10 ~ 40 Voc and each digital input channel supports counter input.

Applications _____

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

I/O Specifications_

Digital Input		
Input Char	inels	8
Input Type		Wet Contact (Sink, Source)
On Voltage	Level	+10 Vpc ~ +50 Vpc
Off Voltage Level		+4 Voc Max.
Input Impe	dance	10 kΩ
	Max. Count	65535 (16 bits)
Counters	Max. Input Frequency	50 Hz
	Min. Pulse Width	10 ms
Overvoltag	e Protection	+70 Vpc
Digital Outpu	t	
Output Cha	annels	8
Output Typ	e	Open Collector (Source)
Max. Load Current		650 mA/channel at 25 °C
Output Voltage		+10 Vpc ~ +40 Vpc
Overvoltage Protection		47 V _{DC}
Overload Protection		-
Short-circu	it Protection	Yes

System Specifications

C. A. S.	
System	
CPU	16-bit CPU
SRAM	512 KB
Flash Memory	512 KB
EEPROM	16 KB
Watchdog	Yes
Communication	
PoE Ethernet Port	10/100 Base-TX (With Link, Activity LED Indicator) and automatic MDI/MDI-X
2 Way Isolation	
I/O	3750 Vms
EMS Protection	
ESD (IEC 61000-4-2)	4 kV Contact for each terminal
EFT (IEC 61000-4-4)	+/-2 kV for Power
LED Indicators	
PoE Power	PoE On
L1	System Running
L2	Ethernet Link/Act
L3	Ethernet 10/100M Speed
Power Requirements	
Reserve Polarity Protection	Yes
Powered from terminal block	Yes, 12 ~ 48 V _{DC}
Powered from PoE	Yes, IEEE 802.3af, Class1
Consumption	4.3 W
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	10 ~ 90% RH, non-condensing

Amplicon.com IT and Instrumentation for industry



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 ON to OFF OFF to ON Schange	
Internal Register	= ` > ` < ` >= ` <=(value)	
DI Counter	= ` > ` < ` >= ` <=(value) ` Change	
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
DI Counter	Reset
DO Counter	Reset
Timer	Start Stop
Email	Send
CGI Commands	Send
Recipe	Execute
P2P	DO(On/Off) · AO · IR
Rule Status	Enable · Disable

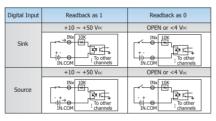
Pin Assignment

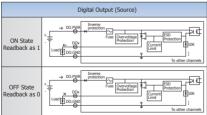
Terminal No.	Pin Assignment
E1	RJ-45
01	IN3
02	IN4
03	IN5
04	IN6
05	IN7
06	IN.COM2
07	N/A
08	(R)+Vs
09	(B)GND



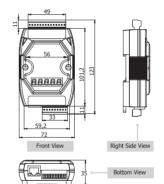
Terminal No.	Pin Assignment
23	IN2
22	IN1
21	IN0
20	IN.COM1
19	D07
18	DO6
17	DO5
16	DO4
15	DO3
14	DO2
13	DO1
12	DO0
11	DO.GND
10	DO.PWR

Wire Connection _





Dimensions (Unit: mm)



Crdering Information_

WISE-7152	8-channel Isolated Source Type Open Collector Output and 8-channel Isolated Digital Input 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	Unmanaged 5-Port Industrial PoE Ethernet Switch (RoHS)

Amplicon.com IT and Instrumentation for industry

