



WISE-7119

8-channel Analog Input with High Voltage Protection and 4-channel Isolated Output PoE Module

Analog Input & Digital 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
- IEEE 802.3af-compliant Power over Ethernet (PoE)
- 10/100 Base-TX Ethernet
- Support Current Input, Voltage Input and Thermocouple Input
- Over Voltage Protection is up to 240 Vrms
- 4-channel Digital Outputs
- 2-way Isolation/ESD Protection
- CEFC 📾 🖉 PoE

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 controlliers 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 dramaticing reduce the effort and cost spent on system development.

WISE-7119 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 Uniterforce simplifying systems design, saving space, reducing cables and eliminating the requirement for dedicated electrical outlets. Nearwhile, in case under a non-PoE environment, WISE-7119 will still be able to receive power from uniliary power sources like AC adaptes or battery, etc.

This multi-function module WISE-7119 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It features 16-bit, 8-channel differential analog inputs and 4-channel digital ouputs. Each analog channel is allowed to configure an individual range and has 240 Vrms high over voltage protection.

Applications_

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

I/O Specifications_

Analog Input				
Input Channels		8 (Differential)		
Input Type		+/-15 mV, +/-50 mV, +/-100 mV, +/-50 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V Thermocouple (J, K, T, E, R, S, B, N, C, L, M, LDIN43710) +/-20mA, 0~20mA, 4~20mA (jumper selectable)		
Resolution		16-bit		
Sampling Rate		10 samples/Sec. total		
Accuracy		+/-0.1 % or better		
Bandwidth		15.7 Hz		
Zero Drift		+/-10 uV/°C		
Span Drift		+/-25 ppm/°C		
Input	Voltage	>1 MΩ		
Impedance	Current	125 Ω		
Common Mode Rejection		86 dB Min.		
Normal Mode Rejection		100 dB		
Overvoltage Protection		240 Vrms		
ESD Protection		+/-4 kV (Contact for each channel) +/-8 kV air for random point		
EFT Protection		+/-4 kV for Power		
Digital Output	t			
Output Channels		4 (Sink)		
Output Type		Isolated Open Collector		
Max. Load Current		700 mA/Channel		
Load Voltage		5 VDC ~ 50 VDC		

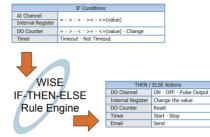
System Specifications

System				
CPU	80186 CPU (80 MHz)			
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			
AI and DO	2500 Vrms			
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 $V_{DC} \sim$ +48 V_{DC} (non-regulated)			
LED Indicator	Yes			
Power Consumption	0.12 A @ 24 V _{DC} Max.			
Mechanical				
Dimensions(W x L x H)	123 mm x 72 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-7000 Series (Web based PoE

Software Specifications

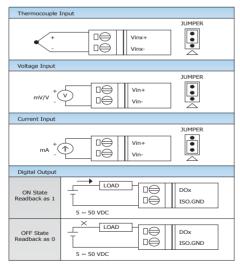
Functions		
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions 3 ELSE actions	
48 Internal Registers	Hold temporary variables and read/write data via Modbus/TCP address.	
12 Timers	Delay / Timing functions.	
12 Emails	Send Email messages to pre-set Email receivers.	
Rule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



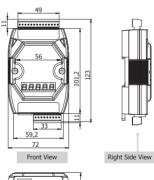
Pin Assignment

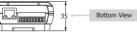


Wire Connection _



Dimensions (Unit: mm)





Ordering Information -

WISE-7119 8-channel Universal Input with High Voltage Protection and 4-channel Isolated 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	R Unmanaged 5-Port Industrial PoE Ethernet Switch (RoHS)		

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