





WISE-5800 User-defined I/O & Data Logger Module

I/O Expansion & Data Logger Module

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, Schedule, Email, Recipe operations
- Data logger and data files send back function supported
- Modbus TCP/RTU Protocol for SCADA Software Seamless Integration
- Support XW-Board
- Support I-7000 Remote I/O Modules(Up to 16)
- Support Modbus RTU Slave Devices(Up to 4)
- SNTP Time Synchronization Supported



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-5800 supports an I/O expansion bus to implement various I/O functions such as D/I, D/O, A/D and D/A according to the XW-Board. In addition, it also support ICP DAS 1-7000 remote I/O modules and Modus RTU slave devices. Based on the variety I/O module of 1-7000 and the connection ability with Modus RTU slave devices, WISE-5800 can provide user more flexibility in application field. WISE-5800 supports Modus TCP/TUP tortcot to make semiless interplantion with SCADs Software available. It fudued all advantages with WISE series controllers can provide. In addition, WISE-5800 support Adubts TCP/TUP tortcot to make semiless interplantion with SCADs and Software available. It include all advantages with WISE series controllers can provide. In addition, WISE-5800 support Advance and the semiless interplantion with SCADs and the connection ability with Modus TCP/TR with WISE series support ICP based and the tort of the semiless interplant to the semiles

Applications_

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

Specifications.

Models	WISE-5800
CPU Module	
CPU	16-bit CPU
SRAM	768 KB
Flash	512 KB
EEPROM	16 KB
NVRAM	31 Bytes
microSD Expansion	Yes, can support 1 or 2 GB microSD
RTC (Real Time Clock)	RTC Provide seconds, minutes, hours, date of week/month; month and year
Watchdog Timers	Yes (0.8 second)
Communication Ports	
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)
COM 1	RS-232 (TxD, RxD, RTS, CTS, GND), non-isolated, Speed: 115200 bps max.
COM 2	RS-485 (D2+, D2-), self-tuner ASIC inside, non-isolated, Speed : 115200 bps max.
LED Indicator	
System LED	Yes (Red)
Ethernet Link LED	Yes (Green : Ethernet link detected, Flashing Green : Ethernet packet received)
LED Display	•
Hardware Expansion	
I/O Expansion Bus	Yes
Mechanical	
Dimensions (W x H x D)	91 mm x 123 mm x 52 mm
Installation	DIN-Rail
Environmental	
Operating Temperature	-25 ~ +75 ℃
Storage Temperature	-30 ~ +80 °C
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)
Power	
Protection	Power reverse polarity protection
Frame Ground	Yes (for ESD Protection)
Input Range	+12 ~ +48 Voc
Redundant Power Input	Yes
Power Consumption	2.0 W

Software Specifications

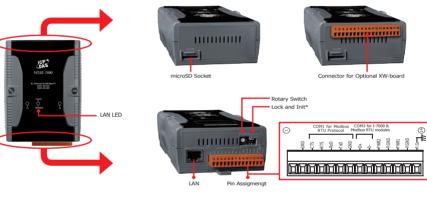
Functions	
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions
48 Internal Registers	Hold temporary variables and read/write data via Modbus TCP address.
12 Timers	Delay / Timing functions.
12 Schedules	Setup prescheduled routine tasks.
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.
Data Logger	Set up the Data Logger configuration, include the data record format, and data file sending operation.
Modbus TCP/RTU Protocol	Real time control and monitoring I/O channels and system status of controllers via SCADA software.

	IF Conditions
DI Channel	ON OFF OFF OFF to ON
AI Channel	= ` > ` < ` >= ` <=(value)
Internal Register	= · > · < · >= · <=(value)
DI Counter	= ` > ` < ` >= ` <=(value) ` Change
Timer	Timeout Not Timeout
Schedule	In Range · Out of Range
Rule Status	Enable Disable

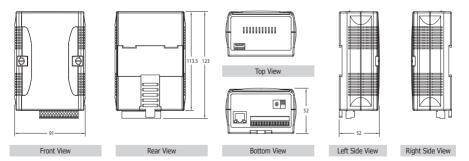


THEN / ELSE Actions			
	ON · OFF · Pulse Output (
DO Channel	Just for XW-Board)		
AO Channel	Change the value		
Internal Register			
DI Counter	Reset		
Timer	Start · Reset		
Schedule	Enable · Disable		
Email	Send		
CGI Commands	Sellu		
Recipe	Execute		
Data Logger	Start · Stop · One-Time Log		
Rule Status	Enable · Disable		

Appearance



Dimension(Units: mm)



Crdering Information _

WISE-5800 User-defined I/O & Data Logger Module

Accessories.

NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch (RoHS)
MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
DIN-KA52F CR	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
3LMSD-2000 CR	2 GB microSD card (RoHS)

Ethernet I/O Modules