



WISE-5800

User-defined I/O & 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 Protocol for SCADA Software Seamless Integration
- 10/100 Base-TX Ethernet
- Support XW-Board
- Support I-7000 Remote I/O Modules(Up to 16)
- 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 powerful and easy-to-use features, it will minimize 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, WISE-5800 also support ICP DAS I-7000 remote I/O modules. Based on the variety I/O module of I-7000, WISE-5800 can provide user more flexibility in application field.

WISE-5800 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It include all advantages which WISE series controllers can provide. In addition, WISE-5800 provide data logger function with microSD card, it can record I/O channel value by event trigger or regular time period. The data files can be sent back by Email or FTP. All setting can be completed through browser.

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 (Reserved, Unsupported by WISE firmware)		
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 °C		
Storage Temperature	-40 ~ +80 °C		
Ambient Relative Humidity	5 ~ 90% RH (non-condensing)		
Power			
Protection	Power reverse polarity protection		
Frame Ground	Yes (for ESD Protection)		
Input Range	+12 ~ +48 V _{DC}		
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 Protocol	Real time control and monitoring I/O channels and system status of controllers via SCADA software.		

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



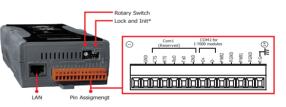
THEN / ELSE Actions			
DO Channel	ON · OFF · Pulse Output (
DO Channel	Just for XW-Board)		
AO Channel	Change the value		
Internal Register			
DI Counter	Reset		
Timer	Start · Reset		
Schedule	Enable · Disable		
Email	Send		
CGI Commands	Jenu		
Recipe	Execute		
Data Logger	Start · Stop · One-Time Log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

Appearance

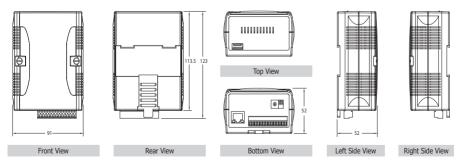








☑ Dimension(Units: mm)



■ Ordering 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)