



■ Features

- Built-in Web Server for IF-THEN-ELSE rule setting
- Built-in IF-THEN-ELSE rule engine for logic operation
- No more programming. Click and get done!
- Support I/O, Counter, Timer, 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 10)
- 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 labor 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/M-7000 remote I/O modules and Modbus RTU slave devices. Based on the variety I/O module of I-7000/M-7000 and the connection ability with Modbus RTU slave devices, WISE-5800 can provide user more flexibility in application field.

WISE-5800 supports Modbus TCP/RTU 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, Testing Equipment, etc.

System Specifications

System		
CPU	16-bit CPU	
SRAM	768KB	
Flash Memory	512KB	
EEPROM	16 KB	
NVRAM	31 Bytes	
microSD Expansion	Support 1/2/4 GB microSD	
RTC (Real Time Clock)	Provide second, minute, hour, date of week, month and year	
Watchdog	Yes	
Communication		
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X)	
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 Indicators		
System LED	Yes (Red)	
Ethernet Link LED	Yes (Green: Ethernet link detected, Flashing Green: Ethernet packet received)	
Hardware Expansion		
I/O Expansion Bus	Yes	
Power Requirements		
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	
Mechanical		
Dimensions (W x H x D)	91 mm x 132 mm x 52 mm	
Installation	DIN-Rail	
Environmental		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +80 °C	
Humidity	10 ∼ 90% RH, non-condensing	

■ Software Specifications _____

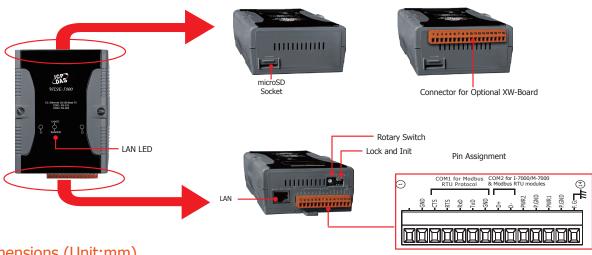
Functions			
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.		
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions		
48 Internal Registers	Hold temporary variables and read/write data 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, ON to OFF, OFF to ON, Change		
AI Channel	· · · · · · · · · · · · · · · · · · ·		
Internal Register	=, >, <, >=, <= (value)		
DI Counter	=, >, <, >=, <= (value), Change		
Timer	Timeout, Not Timeout		
Schedule	In Range, Out of Range		
Rule Status	Enable, Disable		

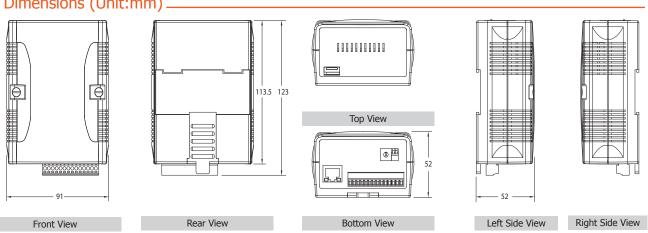


J				
THEN / ELSE Actions				
ON, OFF, Pulse Output(apply to				
XW-Board only)				
Change the value				
		Reset		
Start, Reset				
Enable, Disable				
Send				
Seriu				
Execute				
Start, Stop, One-Time Log				
Enable, Disable				

Appearance _



■ Dimensions (Unit:mm)



■ Ordering Information ___

WISE-5800 CR	User-defined I/O & Data Logger Module for Modbus RTU or DCON Devices

Accessories

= ACCC33011C3		
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-4000 CR	4 GB microSD card (RoHS)	