

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 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 and provide user more flexibility in application field. WISE-5800 supports Modus TCP/TU protocit to make semiless interprint on with CAS Modus RTU slave devices. The support ICP DAS 1-7000 remote I/O In addition, WISE-5800 supports Modus TCP/TU protocit to make semiless interprint on with CAS Modus RTU slave devices and the VISE series controllers can provide. In addition, WISE-5800 support and the support 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 horwser.

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

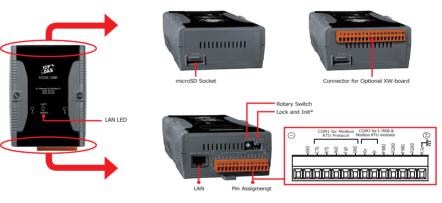
Functions				
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.			
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions			
48 Internal Registers	Hold temporary variables and read/write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

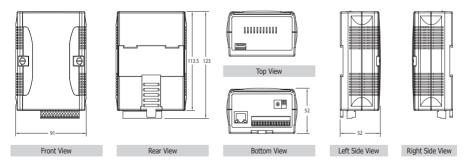


THEN /	ELSE Actions
DO Channel	ON · OFF · Pulse Output (
AO Channel	Just for XW-Board)
Internal Register	Change the value
DI Counter	Reset
Timer	Start - Reset
Schedule	Enable · Disable
Email	Send
CGI Commands	
Recipe	Execute
Data Logger	Start Stop One-Time Log
Rule Status	Enable · Disable

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)

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