

	Features
(10-c0N1) (10-ch analogi (ipyu)	Runs on browsers, no extra software tool is required.
ICEAS ON	No more programming, Web pages provided for control logic editing.
Ось WISE-7519ZM Ось	■ IF-THEN-ELSE logic rules execution ability.
	Built-in I/O AI: 10 Channels; DO: 3 Channels
	Support I/O Monitoring/Control, Counter, Timer, Email sending and CGI Command sending operations.
	Modbus TCP Protocol for SCADA System Integration.
	IEEE 802.3af-compliant Power over Ethernet (PoE).
	2-port Ethernet Switch for Daisy-Chain Topology.
	Support Schedule operation
WISE-7519ZM	MQTT Protocol for IT & IoT (Internet of Things) System Integration.
WISE I/O Module with 10-channels universal AI, 3-channels DO and 2-port Ethernet Switch	CE K FC C 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 controller 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-7519ZM is specifically designed for extremely accurate thermocouple measurement and features automatic cold-junction compensation for each channel to ensure temperature output consistency and stable temperature output in the field. Current input and voltage input are both supported. Open thermocouple detection and ESD/ EFT/Surge protection mechanisms are also included. The three digital output channels can be set as alarm outputs. WISE-7519ZM follows IEEE 802.3af-compliant Power over Ethernet (PoE) specification. It allows receiving power from PoE enabled network by Ethernet pairs. In additional to this, WISE-7519ZM also has a built-in two-port Ethernet switch to implement daisy-chain topology. The cabling is much easier and total costs of cable and switch are significantly reduced.

By integrating with IF-THEN-ELSE rule engine, WISE-7519ZM provides powerful functions such as I/O Monitoring/Control, Counter, Timer, Schedule, E-mail sending & CGI Command sending for use in various industrial applications. WISE-7519ZM also supports Modbus TCP and MQTT protocols to make seamless integration with SCADA, IT and IoT (Internet of Things) system.

I/O Specifications _

Thermocouple Input		
Channels	10 (Differential)	
Sensor Type	+/-15 mV, +/-50 mV, +/-100 mV, +/-150 mV, +/-500 mV, +/-1 V, +/-2.5 V, +/-5 V, +/-10 V,	
	+/-20 mA, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)	
	Thermocouple (J, K, T, E, R, S, B, N, C, L, M, and LDIN43710)	
Resolution	16-bit	
Sampling Rate	10 Samples/Second (Total)	
Accuracy	+/-0.1% of FSR or better	
Zero Drift	+/-0.5 μV/°C	
Span Drift	+/-25 ppm/°C	
Over Voltage Protection	240 Vrms	
Input Impedance	>300 kΩ	
Common Mode Rejection	86 dB Min.	
Normal Mode Rejection	100 dB	
Temperature Output Consistency	Yes	
Stable Temperature Output in the Field	Yes	
Open Wire Detection	Yes	
Virtual Channel to Channel Isolation	+/-400 VDC	
Digital Output		
Channels	3	
Туре	Isolated Open Collector	
Sink/Source (NPN/PNP)	Sink	
Max. Load Current	650 mA/Channel	
Load Voltage	5 VDC to 50 VDC	
Overvoltage Protection	60 VDC	
Overload Protection	1.4 A	
Short-circuit Protection	Yes	

_ System Specifications _

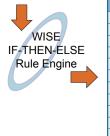
Communication	
Ethernet Port	2 x RJ-45, 10/100 Base-TX, Swtich Ports
PoE	Yes
Protocol	Modbus TCP, MQTT
LED Indicators	
for System Running	Yes
for Ethernet Link/Act	Yes
for I/O Channel Status	Yes
for PoE Power	Yes
2-Way Isolation	
I/O	2500 V _{DC}
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±8 kV Air for Random Point
EFT (IEC 61000-4-4)	±2 kV for Power Line
Surge (IEC 61000-4-5)	±2 kV for Power Line
Power	
Reverse Polarity Protection	Yes
Powered from Terminal Block	12 to 48 VDC
Powered from PoE	Yes, IEEE 802.3af, Class1
Consumption	3.6 W (Max.)
Mechanical	
Dimensions (L x W x H)	114mm x 97mm x 38mm
Installation	Wall mounting
Environment	
Operating Temperature	-25 °C to +75 °C
Storage Temperature	-30 °C to +80 °C
Humidity	10 to 90% RH, non-condensing

WISE-75xx Series

Software Specifications

Functions	
Rule Configuration	Access Web server on WISE controllers to edit
Website	and upload logic rules through web browser.
72 IF-THEN-ELSE Logic	3 IF conditions with AND or OR operators
Rules	3 THEN actions and 3 ELSE actions
48 Internal Registers	Hold temporary variables and read/written via
	Modbus command.
24 Timers	Delay / Timing functions.
24 Schedules	Setup prescheduled routine tasks.
24 Emails	Send Email messages to pre-set Email receivers.
24 CGI Commands	Send pre-set CGI commands.
24 Recipes	Set up THEN/ELSE action groups.
8 P2P remote modules	Set up the connection information for the remote WISE modules.
	Real time control and monitoring I/O channels
Modbus TCP Protocol	and system status of controllers via SCADA
	software.
	Real time message publish/subscribe
MQTT Protocol	mechanism for I/O channels and system status
	via IT/IoT software.

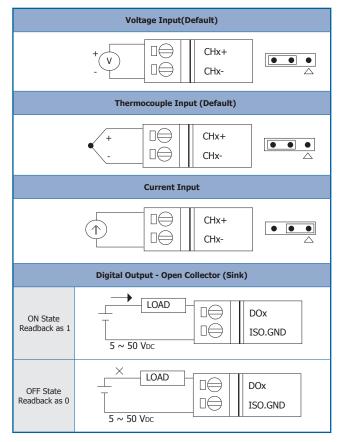
IF Conditions		
=, >, <, >=, <= (value)		
=, >, <, >=, <= (value)		
=, >, <, >=, <= (value), Change		
Timeout, Not Timeout		
In Range, Out of Range		
DI, AI, DI counter, DO counter, IR		
Enable, Disable		

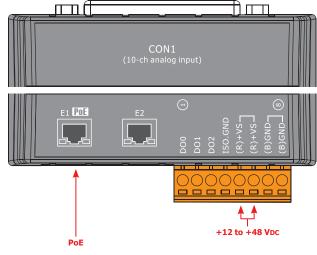


Pin Assignments_

THEN / ELSE Actions		
DO Channel	ON, OFF, Pulse Output	
Internal Register	Change the value	
DO Counter	Reset	
Timer	Start, Reset	
Schedule	Enable, Disable	
Email		
MQTT message	Send	
CGI Command		
Recipe	Execute	
P2P	DO(On/Off), AO, IR	
Rule Status	Enable, Disable	

Wire Connections





Ordering Information ______

WISE-7519ZM/S CR	WISE I/O Module with 10-channels universal AI, 3-channels DO, 2-port Ethernet Switch and DB-1820 Daughter Board (RoHS)	
WISE-7519ZM/S2 CR	WISE I/O Module with 10-channels universal AI, 3-channels DO, 2-port Ethernet Switch and DN-1822 Daughter Board and a 1.8 m Cable (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	Unmanaged 5-Port Industrial PoE Ethernet Switch (RoHS)	