WISE-4000 Series

IoT Wireless I/O Module



Introduction

The WISE-4000 series provide a cost-effective wireless solution for cloud applications. By supporting direct cloud access, new web services and datalogs, the WISE-4000 series can seamlessly connect to the cloud for a wireless solution.

Specifications

Universal Input

- Channel
- Resolution
- Sampling Rate
- Accuracy
- Input Type and Range Analog Input

Digital Input

- Input Impedance
- Over Voltage Protection
- **Burn-out Detection**
- Yes (4~20 mA only) Supports Data Scaling and Averaging

Digital Input

•	Channels	WISE-4050: 4
		WISE-4060: 4
	Logic level	Dry Contact 0: Open
	5	1: Close to DI COM
		Wet Contact 0: $0 \sim 3 V_{DC}$ (0.8 mA max.)
		1.10 001/ (0 m/ min)

WISE-4012: 4

±0.1% of FSR (Voltage)

±0.2% of FSR (Current)

0~20mA, 4~20mA, ±20mA

 $> 10M\Omega$ (Voltage)

100Ω (Current)

 $\pm 35 \; V_{\text{DC}}$

±150mV, ±500mV, ±1V, ±5V, ±10V,

0~150mV, 0~500mV, 0~1V, 0~5V, 0~10V,

Dry Contact 0: Open, 1: Close to GND

1: 10 ~ 30 V_{DC} (3 mA min.)

16-hit 10/100 Hz (Total)

- Isolation
- 3,000 Vrms Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Keep/Discard Counter Value when Power-off
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

Digital Output

 Channels 	WISE-4012: 2
	WISE-4050: 4
	(Open collector to 30 V, 500 mA max. for
	resistance load)
Isolation	3 000 V

- Supports 1 kHz Pules Output
- Supports High-to-Low and Low-to-High Delay Output

Relay Output

 Channels 	WISE-4060: 4 (Form A)
 Contact Rating 	250 V _{AC} @ 5 Å
(Resistive Load)	30 V _{DC} @ 3A
 Isolation (b/w coil & contacts) 	3,000 Vrms
 Relay On Time 	10 ms
 Relay Off Time 	5 ms

	Insulation	Resistance
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- Maximum Switching
- **Supports Pulse Output**
- Supports High-to-Low and Low-to-High Delay Output

 $1 G\Omega$ min. @ 500 V_{DC}

60 operations/minute

-25~70°C (-13~158°F)

-40 ~ 85°C (-40~185°F)

IEEE 802.11b/g/n 2.4GHz

System (1.6 second) and

DIN 35 rail, wall, and stack

80 x 148 x 25 mm

 $10 \sim 30 \; V_{\text{DC}}$

Communication (programmable)

CE, FCC, R&TTE, NCC, SRRC, RoHS

110 m with line of sight

20~95% RH (non-condensing)

Plug-in screw terminal block (I/O and power)

0~95% RH (non-condensing)

Environment

- **Operating Temperature**
- Storage Temperature
- Operating Humidity
- Storage Humidity

General

- WLAN
- **Outdoor Range**
- Connectors
- Watchdog Timer
- Certification
- Dimensions (W x H x D) .
- Enclosure
- Mounting
- Power Input
- **Power Consumption**
 - WISE-4012: 2.0 W @ 24 VDC WISE-4050: 2.2 W @ 24 VDC WISE-4060: 2.5 W @ 24 VDC

PC

- **Power Reversal Protection**
- **Supports User Defined Modbus Address**
- Supports Data Log Function Up to 10000 samples with RTC time stamp Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP
- Supported Protocols
- Supports RESTful Web API in JSON format
- Supports Web Server in HTML5 with JavaScript & CSS3
- Supports System Configuration Backup and User Access Control

Ordering Information

4-ch Universal Input and 2-ch Digital Output IoT Wireless I/O Module WISE-4012 (Preliminary Specification) 4-ch Digital Input and 4-ch Digital Output **WISE-4050** IoT Wireless I/O Module WISE-4060 4-ch Digital Input and 4-ch Relay Output IoT Wireless I/O Module

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output
WISE-4012	4		2	
WISE-4050		4	4	
WISE-4060		4		4