**Introduction**

The WISE-4060 is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O types, the WISE-4060 provides data pre-scaling, data logic, and data logger functions. Data can be accessed via mobile devices and be securely published to the cloud anytime from anywhere.

**Features**

- **IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode**
  The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend existing Ethernet network to wireless. The limited AP mode enables the WISE-4000 to be accessed via other Wi-Fi devices directly as an AP.

- **HTML5 Web Configuration Interface**
  All the configuration interfaces are applied in web service, and the web pages are based on HTML5, so users can configure the WISE-4000 without the limitation of OS/devices. You can use your mobile phone or tablet to directly configure the WISE-4000.

- **RESTful Web Service with Security Socket**
  As well as supporting Modbus/TCP, the WISE-4060 series also supports IoT communication protocol, RESTful web service. Data can be polled or even be pushed automatically from the WISE-4060 when the I/O status is changed. The I/O status can be retrieved over the web using JSON. The WISE-4060 also supports HTTPS which has security that can be used in a Wide Area Network (WAN).

- **Data Storage**
  The WISE-4000 can log up to 10,000 samples of data with a time stamp. The I/O data can be logged periodically, and also when the I/O status changes. Once the memory is full, users can choose to overwrite the old data to ring log or just stop the log function.

- **Cloud Storage**
  Data logger can push the data to file-based cloud services like Dropbox using pre-configured criteria. With RESTful API, the data can also be pushed to a private cloud server in the format of JSON. Users can setup their private cloud server using the provided RESTful API and their own platform.
Specifications

Digital Input
- **Channels**: 4
- **Logic Level**
  - Dry Contact: 0: Open
  - 1: Close to DI COM
  - Wet Contact: 0: 0 ~ 3 VDC
  - 1: 10 ~ 30 VDC (3 mA min.)
- **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**

Relay Output
- **Channels**: 4 (Form A)
- **Contact Rating**
  - 250 VAC @ 5 A (Resistive Load)
  - 30 VDC @ 3 A
- **Isolation (b/w coil & contacts)**: 3,000 VAC
- **Relay On Time**: 10 ms
- **Relay Off Time**: 5 ms
- **Insulation Resistance**: 1 GΩ min. @ 500 VDC
- **Maximum Switching**: 60 operations/minute
- **Supports Pulse Output**
- **Supports High-to-Low and Low-to-High Delay Output**

General
- **WLAN**: IEEE 802.11b/g/n 2.4GHz
- **Outdoor Range**: 110 m with line of sight
- **Connectors**: Plug-in screw terminal block (I/O and power)
- **Watchdog Timer**: System (1.6 second) and Communication (programmable)
- **Certification**: CE, FCC, R&TTE, NCC, SRRC, RoHS, ANATEL
- **Dimensions (W x H x D)**: 80 x 148 x 25 mm
- **Enclosure**: PC
- **Mounting**: DIN 35 rail, wall, and stack
- **Power Input**: 10 ~ 30 VDC
- **Power Consumption**: 2.5 W @ 24 VDC
- **Power Reversal Protection**: Supports User Defined Modbus Address
- **Supports Data Log Function**: Up to 10000 samples with RTC time stamp
- **Supported Protocols**: Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP
- **Supports RESTful Web API in JSON format**
- **Supports Web Server in HTML5 with JavaScript & CSS3**
- **Supports System Configuration Backup and User Access Control**

Environment
- **Operating Temperature**: -25 ~ 70°C (-13~158°F)
- **Storage Temperature**: -40 ~ 85°C (-40~185°F)
- **Operating Humidity**: 20 ~ 95% RH (non-condensing)
- **Storage Humidity**: 0 ~ 95% RH (non-condensing)

Pin Assignment

<table>
<thead>
<tr>
<th>Universal</th>
<th>Digital Input</th>
<th>Digital Output</th>
<th>Relay Output</th>
<th>RS-485</th>
</tr>
</thead>
<tbody>
<tr>
<td>WISE-4012</td>
<td>4</td>
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<td>WISE-4060</td>
<td>4</td>
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</tbody>
</table>

Dimensions

Unit: mm

- Front View
- Side View
- Mounting Kit