WISE IoT Sensing Devices

WISE-4000

Cloud-Ready IoT Wireless I/O Module

The WISE-4000 series are Ethernet-based wireless IoT devices equipped with IoT data acquisition, processing, and publishing capabilities. In addition to diverse I/O, the WISE-4000 series modules provide data pre-scaling, data logic, and data logger functions. This data can be accessed via mobile devices and securely transmitted to the cloud at any time and from any location.

Key Features

IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode

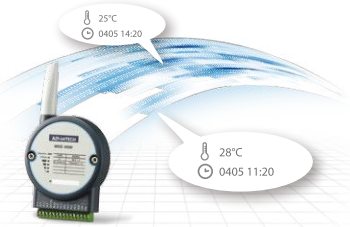
The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend an existing Ethernet network into a wireless network. The limited AP mode enables the WISE-4000 module to be accessed like an AP using other Wi-Fi devices.

RESTful Web Service with Security Socket

As well as Modbus/TCP, the WISE-4000 series module supports IoT communication protocols and RESTful web service. Data can be polled or even pushed automatically from the module when the I/O status changes. The I/O status can be retrieved using an Internet media type such as JSON. The WISE-4000 module also supports HTTPS, which offers sufficient security for use in a wide area network (WAN).

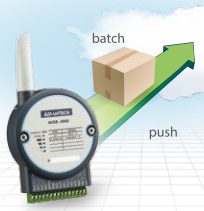
Data Storage

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



Cloud Storage

Data loggers can push data to file-based cloud services such as Dropbox using pre-configured criteria. With RESTful API, data can also be pushed into a private cloud server in JSON format. Users can set up a private cloud server using the provided RESTful API and their own platform.

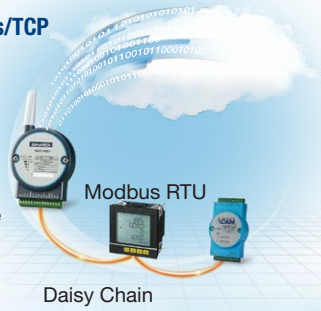


HTML5 Web Configuration Interface

All configurations can be made through a web interface, and the web pages are HTML5-based, enabling users to configure the WISE-4000 module without OS/device limitations. Users can directly configure WISE-4000 via a mobile phone or tablet.

Modbus/RTU to Web Service or Modbus/TCP

The RS-485 port of the WISE-4051 module supports Modbus and can be used to poll data from Modbus/RTU devices, such as ADAM-4000 or ADAM-5000/485. Users can then access the data from WISE-4051 via Modbus or REST. The data can also be logged.



AMC

ADVANTECH iAutomation
Premier Partner

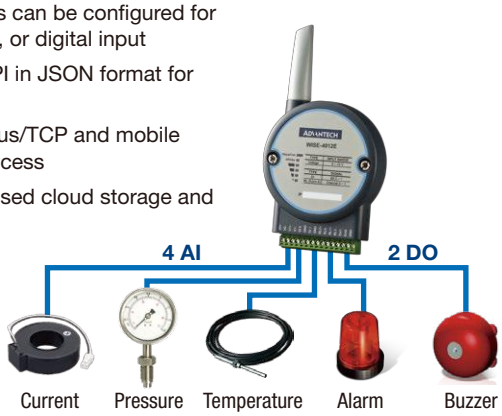
Vertrieb durch AMC
AMC – Analytik & Messtechnik GmbH Chemnitz
Heinrich-Lorenz-Str. 55 Tel.: +49/371/38388-0
09120 Chemnitz Fax: +49/371/38388-99
E-Mail: info@amc-systeme.de Web: www.amc-systeme.de

WISE-4000 Series

WISE-4012

4-ch Universal Input and 2-ch Digital Output IoT Wireless I/O Module

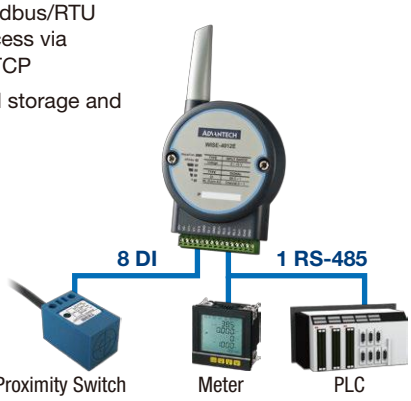
- 2.4 GHz IEEE 802.11b/g/n WLAN
- 4-channel inputs can be configured for voltage, current, or digital input
- RESTful web API in JSON format for IoT integration
- Supports Modbus/TCP and mobile device direct access
- Supports file-based cloud storage and local logging



WISE-4051

8-ch Digital Input IoT Wireless I/O Module with 1-port RS-485

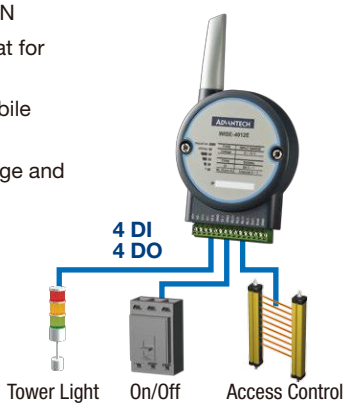
- 2.4 GHz IEEE 802.11b/g/n WLAN
- RS-485 port supports Modbus/RTU protocol; data can be access via RESTful API or Modbus/TCP
- Supports file-based cloud storage and local logging



WISE-4050

4-ch Digital Input and 4-ch Digital Output IoT Wireless I/O Module

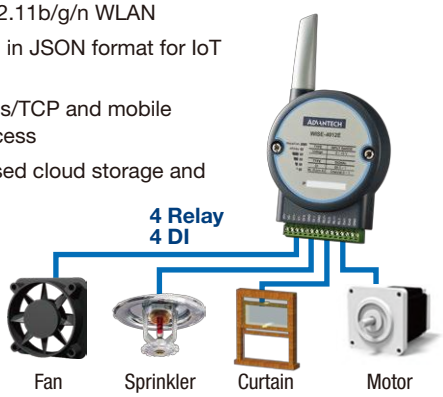
- 2.4 GHz IEEE 802.11b/g/n WLAN
- RESTful web API in JSON format for IoT integration
- Supports Modbus/TCP and mobile device direct access
- Supports file-based cloud storage and local logging



WISE-4060

4-ch Digital Input and 4-ch Relay Output IoT Wireless I/O Module

- 2.4 GHz IEEE 802.11b/g/n WLAN
- RESTful web API in JSON format for IoT integration
- Supports Modbus/TCP and mobile device direct access
- Supports file-based cloud storage and local logging



WISE-4012E IoT Developer Kit

WISE-4012E IoT Developer Kit

6-ch Input/Output IoT Wireless I/O Module for IoT Developers

- 2.4 GHz IEEE 802.11b/g/n WLAN
- 2-channel 0 ~ 10V input, 2-channel digital input, and 2-channel relay output
- Supports Modbus/TCP and mobile device direct access
- Includes an extension board for simulating sensor status, micro USB, power cable, screwdriver, and WebAccess/SCADA software

Get More Details

ADVANTECH iAutomation Premier Partner