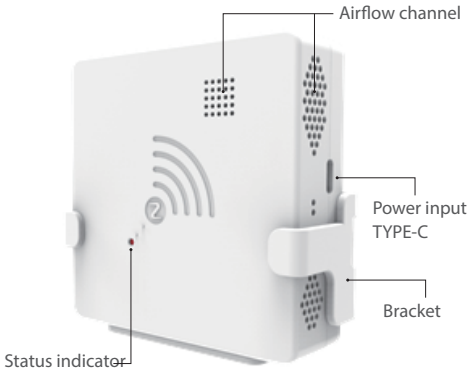


Wireless Indoor Air Quality Module

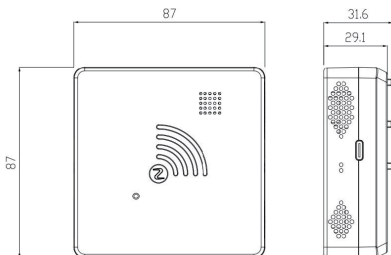
1. Introduction

This module is used to detect the air quality in certain areas, including humidity, temperature, CO₂, PM2.5, and TVOC, etc. It can work with energy recovery ventilators (ERV) to improve the indoor air quality, the ERV runs accordingly based on the monitored data. Free of installation, which can be put on where people move around frequently, like desktops, bedside, etc. Making sure the air quality around you is at the best state at any time.



2. Specifications

Product	Wireless Indoor Air Quality Module (IAQ module)
Model	AS-AQ010Z
Input Power	Adapter: 110V-240V, 50/60Hz
	Module: DC 5V
Power Interface	TYPE-C
Working Temperature	-15~50°C
Working Humidity	20%-90% RH (Non-condensing)
Wireless Telecommunication	Zigbee



3. Connection settings

3-1. Connection diagram



3-2. 1 to 1 connection (1 wired controller connect to 1 wireless IAQ module)

1. Connect the power of the energy recovery ventilator and the wired controller (Version LH**** or above), make sure they are working properly and can be controlled.
2. Connect the IAQ module to power, the indicator on the module flashes.
3. The module and the wired controller will be connected automatically. Until the indicator stops flashing, which means they connect successfully.

* If the IAQ module is connected for the first time, the operations should be as close to the wired controller as possible when connecting.

3-3. 1 to multiple connections (1 wired controller connect to multiple wireless IAQ module, maximum up to 15 modules).

* The operation is the same as the 1 to 1 connection, but before connecting the power of IAQ modules, the dial settings should be done.

A. Unscrew the four screws on the bottom of the IAQ module;

B. Open the cover to dial the number by the DIP switch(set the number for the current IAQ module, the default is 1, and the other number should be set as shown in the figure below)

* The IAQ module connected to the same wire controller in the same area can not be set with the same number, otherwise may lead to communication abnormalities.



3-4. Data checking

* After the connection is completed, the air quality data can be monitored through the wired controller; If the IoT network function of your energy recovery ventilator is available, it can also be monitored through the SMART-VENT App.

* Viewing the data of a specific module(rooms), press the MODE button of the controller for 5 seconds to enter the setting menu when the ERV is running, and view the data by pressing the UP and DOWN button to switch from the module number.

3-5. The linkage with ERV

As to optimize the indoor air quality, the energy recovery ventilator will work at different modes automatically according to the indoor air quality. (Please refer to the user manual of ERV for more operation)

4. Maintenance

* To make sure the accuracy of the monitored results, this module has a built-in fan for circulation; The fan runs intermittently to obtain the most accurate data, it's a normal situation if there are slight vibrations and noises from the fan rotation.

* Do not block the air outlets of the module, putting the module on the bed, thick tablecloth, or clothing might affect the detect results, or even cause abnormal noise and over heat production.

* The monitored data would be more accurate if the module can be put at some air-circulated places from time to time (connect to the power), it's conducive to resetting the chip.

5. FAQ

A. The wired controller is not able to connect to the IAQ module

1. Put the module as close as possible to the wired controller when connecting;
2. Do not connect multiple modules at the same time, it's recommended to start another one after the previous one is connected successfully.
3. Make sure the codes of each module are not repeated! It's recommended to connect one after another according to the number.
4. Check if the wired controller you purchased supports this function or not.

B. The wired controller has displayed the air quality data, but the App hasn't.

1. Check if the PCB board is connected with the WIFI module or not.
2. Whether the energy recovery ventilator is connected to the Cloud ends properly (whether the energy recovery ventilator is online on the App); If the ERV is disconnected, take a check of the network problem first.

C. The data displayed is not accurate

1. Check whether the air outlet of the module is blocked.
2. The module is not put in the area of people activates, or is put near the heat source/ water vapor/ volatile gas(e. g. ceiling, direct sunlight, next to electrical appliances, toilet, etc.)
3. Before using it again, take it to a place with better outdoor air quality for zeroing (about 30 minutes).