

Wi-Fi Control + Air Quality Sensor Insert

Product Datasheet

Model Number: WI008UWA

Document Number: DDS50N0074



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Wi-Fi Control Features

- 2.4 GHz Wi-Fi
- User replaceable Insert – no electrician required
- Independent power monitoring on each circuit²
- Works with Amazon Alexa, Google Assistant, Home Assistant, Control 4, Nice Home Management (formerly ELAN) and IFTTT³
- OTA upgradeable firmware

Air Quality Sensor Features

- Measures various components in the air to establish the air quality index
- Combined Air Quality Index (IAQ: 0 - 500)
- Temperature Sensor between -10°C to 40°C (14°F to 104°F)
- 0 to 100% RH (relative humidity) operating range
- Air Pressure Changes (300 - 1100hPa)
- Calculated Equivalent CO₂ (eCO₂: 400 - 6000ppm) based on IAQ
- Breath Volatile Organic Compounds (b-VOC: 0- 1000 ppb) representing the most important compounds in an exhaled breath of healthy humans
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¹Swidget wiring device not included with Insert

²Not applicable to Auxiliary and 20/40/60 Control Switch

³3rd party integrations are controlled and managed by external service providers. Swidget makes no warranty that these services will continue to exist or be supported over the full life of the product.

Description

The Swidget product line has been developed to support the easy integration of Home Automation and Smart Home markets with unique and flexible solutions. Designed to be integrated into all major Smart Home protocols, the Swidget Wi-Fi Control + Air Quality Sensor Insert provides multiple functions. The Wi-Fi connectivity transforms the Swidget base device into a Wi-Fi enabled smart device.

Using the free Swidget App (available for Android and iOS), take control of your Swidget device to perform any number of tasks:

- Power On/Off your outlets and switches
- Monitor your energy consumption
- Schedule devices to conserve energy
- Set multiple automatic notifications including when your power consumption is too high

The Wi-Fi Control + Air Quality Sensor Insert is a multi-functional device that contain several measurements including temperature, humidity, air pressure and total volatile organic compounds which are all used to calculate total air quality and equivalent CO₂ levels.

When connected to a 2.4GHz Wi-Fi network, the sensor can relay this information to the Swidget app or various control systems, including Alexa and Google Assistant, for use in a variety of applications. As all Swidget Inserts operate on the Class 2 certified interface, an electrician is NOT required for installation or removal.

Modes Of Operations Compatibility

Modes of Operations	15A Outlet	20A Outlet	3-Way Switch	Dimmer Switch	20-40-60 Control Switch	Auxiliary Control Switch
Bathroom Fan mode	No	No	Yes	No	Yes	Yes
Air Exchanger mode	No	No	No	No	Yes	Yes

Pre-Programmed Rules Compatibility

Rules	15A Outlet	20A Outlet	3-Way Switch	Dimmer Switch	20-40-60 Control Switch	Auxiliary Control Switch
Humidity rule When Humidity increases within 15% compared to the average humidity for more than 0 mins: Turns ON When Humidity returns within 15% compared to the average humidity for more than 5 mins: Turns OFF	No	No	Yes	No	Yes	No
Air Quality rule When Air Quality declines to Moderate for 0 mins: Turns ON When Air Quality improves to Good for 5 mins: Turns OFF	No	No	No	No	Yes	No

Specifications¹

Product Number	WI008UWA
Wireless Standard	Wi-Fi 802.11g
Wireless Band	2.4 GHz
Compatible Integrations ¹	Amazon Alexa, Google Assistant and IFTTT
Compatible Devices	Swidget Wiring Devices
Temperature Range	-10 - 40°C (±1°C) / 14 - 104°F (±1.8°F)
Relative Humidity Range	0-100% {+/- 5% RH}
Air Pressure	300 - 1100 hPa (+/-2hPa)
Calculated AQI	0 - 500 Relative Index
Calculated TVOC	0- 1000 ppb
Calculated eCO2	400 - 6000 ppm
Electrical Rating	5VDC
Device Upgrades	OTA

Environmental	Indoor installation only
Operating Temperature	-10 - 40°C / 14 - 104°F
Certifications and Compliances - FCC	FCC Part 15 Subpart 15.247
Certifications and Compliances - ISED	RSS-247 Issue 2:2017

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Air Quality Index


IAQ Index	Air Quality	Impact (long-term exposure)	Suggested action
0-50	Excellent	Pure air; best for well-being	No measures needed
51-100	Good	No irritation or impact on well-being	No measures needed
101-150	Lightly polluted	Reduction of well-being possible	Ventilation suggested
151-200	Moderately polluted	More significant irritation possible	Increase ventilation with clean air
201-250	Heavily polluted	Exposition might lead to effects like headache depending on type of VOCs	Optimize ventilation
251-350	Severely polluted	More severe health issue possible if harmful VOC present	Contamination should be identified if level is reached even w/o presence of people; maximize ventilation & reduce attendance
> 351	Extremely polluted	Headaches, additional neurotoxic effects possible	Contamination needs to be identified; avoid presence in room and maximize ventilation

Revision History

Table 1. Wi-Fi Control + Air Quality Sensor Insert

Product Revision	Document Revision	Date	Comment
A	00	2020-11-01	Initial Release
A	01	2023-08-01	Datasheet format update

¹Compliances, Specifications And Availability Are Subject To Change Without Notice.

Sales	Support	Product Instructions
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