Z-Wave™ Control + Air Quality Insert
Product Datasheet

Model Number: ZW008UWA

Document Number:DDS50N0194

Z-Wave Control Features

- Z-Wave Plus Certified with 800 series chipset
- User replaceable – no electrician required
- Independent power monitoring on each circuit
- Works with most Z-Wave hubs/controllers
- OTA upgradeable firmware

Air Quality Sensor

- 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)
- Relative Humidity (0-100%)
- Breath Volatile Organic Compounds (b-VOC: 0- 1000 ppb) representing the most important compounds in an exhaled breath of healthy humans

1

[1]Swidget Wiring Device not included with Insert

Description

The Swidget Z-Wave Control + Air Quality Insert is a modular smart home solution engineered for seamless integration with all Swidget Wiring Devices. Swidget's Z-Wave Devices and Inserts simplify the process of upgrading your home to a smart living space. Swidget Devices are installed in your home just like any other wiring devices, ensuring there is no unnecessary complexity during installation. Once your device is installed, simply select your desired sensor capability, and snap your Swidget Z-Wave Insert into the Swidget Wiring Device. The modularity of Swidget's Inserts ensures that the solution is adaptable to your needs as they change, and future-proofs your investment by enabling you to adapt to new technologies, sensors, and trends as they emerge.

The Swidget Z-Wave Control + Air Quality Insert allows the user to control and monitor a Swidget Device. The Swidget Air Quality Insert monitors Volatile Organic Compounds (VOCs), equivalent CO2, air pressure, temperature, and humidity to provide an Air Quality Index (AQI). Passively monitor your room's air quality, humidity and temperature through Swidget's App or actively use them in automations to optimize and improve your living space.The Swidget Air Quality Insert works directly out of the box when paired with Swidget's 20/40/60 Timer Control Switch and Panasonic ventilation products such as WhisperQuiet bathroom fans and Panasonic Energy Recovery Ventilator (ERV) systems.

Specifications[1]

Product Number	ZW008UWA
Wireless Standard	Z-WAVE PLUS V2 Certified
Wireless Band	908.42 MHz
Z-Wave Series	800 Series
Support Z-Wave Security	S2 Unauthenticated
Z-Wave Repeater	Yes - Node Repeater

Z-Wave Devices Types	SWITCH BINARY (0x25), two METER V2 (0x32)
Temperature Range	-10 to 40°C (±1°C after calibration) / 14 to 104°F (±1.8°F after calibration)
Relative Humidity Range	0-100% {+/- 5% RH)
Calculated AQI	0 - 500 Relative Index
Calculated TVOC	0- 1000 ppb
Electrical Rating	0.1A - 5VDC
Hub/Controller Compatibility	Generic Z-Wave support
Device Upgrades	OTA
Environmental	Indoor installation only
Operating Temperature	-10 to 40°C / 14 to 104°F
Certifications and Compliances - FCC	FCC Part 15 Subpart 15.247
Certifications and Compliances - ISED	RSS-247 Issue 2:2017

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. Z-Wave Control + Air Quality Sensor Insert

Product Revision	Document Revision	Date	Comment
A	00	2023-08-01	Initial Release

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

Sales	Support	Product Instructions
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