Z-WAVE™ CONTROL + AIR QUALITY INSERT INSTRUCTIONS

Model Number: ZW008UWA

Electrical Rating: 0.1A - 5VDC

The Z-Wave™ Control + Air Quality Sensor Insert allows the user to control and monitor a Swidget Wiring Device. Users can use the various available Swidget Inserts to create sensor-based automation, where air quality, temperature, humidity, and pressure conditions can trigger actions in Swidget wiring devices, send notifications, and more. Z-Wave is a standardized mesh network protocol used by many devices and hubs. Swidget certification to this standard means compatibility with other Z-Wave certified devices or hubs. Please consult your Z-Wave controller/hub manufacturer for instructions on how to add a new Z-Wave device. This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Features

- Remote ON/OFF control via external Z-Wave controller/hub.
- Manual ON/OFF control via front panel push button.
- Instantaneous W and kWh consumption for host wiring device.[1]
- Independent meter reports for each receptacle when used with a Swidget 15A or 20A outlet.
- Temperature sensing between -10°C and 40°C (14°F and 104°F).
- 0 to 100% RH (relative humidity) operating range (+/- 5% RH).
- Multilevel sensor reports for temperature, humidity and VOC.
- Notification reports for temperature and air quality.

Swidget Wiring Devices

The Insert must be installed in a Swidget Wiring Device to operate. The following Wiring Devices are available:

1. S16009WA - Auxiliary Control Switch
2. S16008WA - 20/40/60 Control Switch
3. SD3002WA - Dimmer Switch
4. S16001WA - On/Off Switch
5. R1015SWA - 15A Outlet
6. R1020SWA - 20A Outlet

The final features and functionalities will depend on your selection of Insert + Wiring Device combination.

IMPORTANT

This Insert must only be installed and used with an approved/certified Swidget Wiring Device. Usage with any other devices is not permitted and will result in the warranty becoming void.

WARNING

- While not required, it is recommended to avoid any risk of shock or death, turn off power at the circuit breaker or fuse and test that the power is off before installing or removing any Insert.
- Not for use to control medical or life support equipment.
- For INDOOR use only: 0°C to 40°C (32°F to 104°F).
- Insert can only be installed in one orientation. Rear alignment pins prevent incorrect installation. Do not forcibly install an Insert.
- Do not use Z-Wave devices to control electric heaters or any other appliances which may present a hazardous condition due to unattended or unintentional or automatic power on control.
- Requires a certified Z-Wave hub for operation.
- Double check any external Z-Wave settings for accuracy before using them.
- This device complies with Z-Wave standard of open air, line of sight transmission. Actual performance in a home depends on the numbers of walls and obstacles between the Insert and other Z-Wave devices / hubs.
- This device must be used in conjunction with an S2 Security Enabled Z-Wave Controller to fully utilize all implemented security functions.

Installation

CAUTION

It is recommended to turn off power at the circuit breaker or fuse and to test that the power is off before installing or removing an insert.

1. This Insert is to be installed in a Swidget Wiring Device ONLY.
2. Orient the Insert to line up with the pins in the Wiring Device cavity. NOTE: alignment pins will prevent incorrect installation.
3. Push Insert into the Wiring Device cavity until the two side latches engage.
4. Re-enable power to the circuit breaker.
5. For a first time installation or after an Insert reset, the Insert requires network ADD pairing / joining (see below).
6. For Inserts being moved, the Insert will power up with the previous location settings. For any required adjustments, consult the manual of the connecting Z-Wave controller / hub.

Insert Operation

Z-Wave SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

1. Follow SmartStart device ADD steps for your Z-Wave controller / hub.
2. Use the Z-Wave controller / hub app or interface to scan the QR code located on the security card or directly on the Insert, or manually enter the 5 digit PIN or Insert's full DSK (Device Specific Key) as required.
3. Once registered with your hub, the device will join automatically within a minute of being placed in a powered Swidget Wiring Device.

[1]*Not applicable to Auxiliary and 20-40-60 Control Switch.

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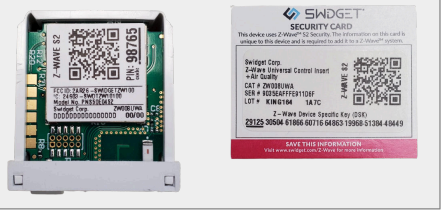
DSK located on the Insert

DSK located on the security card



Manual Z-Wave Network Add - Classic Inclusion

1. Follow network ADD steps for your Z-Wave controller / hub.
2. Lightly press Insert push button and hold for 5-10 seconds until the LED illuminates solid blue, then release. LED will flash blue to indicate ADD mode is enabled. No manual or external Z-Wave operations are possible during this activity.
3. Insert will remain in ADD mode for up to 30 seconds. If successful, LED will be solid blue for 5 seconds then return to the normal operational state. IF FAILED to connect after 30 seconds, the red LED will flash for 3 seconds, indicating no or failed network ADD. If necessary, consult your Z-Wave controller/hub manual and retry.

Manual Z-Wave Network Remove - Classic Exclusion

1. Follow network REMOVE steps for your Z-Wave controller / hub.
2. Lightly press Insert push button and hold for 5-10 seconds then release. LED will flash blue to indicate REMOVE mode is enabled. No manual or external Z-Wave operations are possible during this activity.
3. Insert will remain in REMOVE mode for up to 30 seconds. If successful, LED will be solid blue for 5 seconds then return to the normal operational state. If FAILED to connect after 60 seconds, red LED will flash indicating no or failed network REMOVE. If necessary, consult your Z-Wave controller / hub manual and retry.

Z-Wave Local Device Reset (Factory Reset)

NOTE
Should only be used when the original controller is inoperable or has been replaced.

1. Lightly press Insert push button and hold for 10-15 seconds until the LED turns SOLID RED, and then release.
2. The Insert will cycle through led colours (R-G-B). When LED stops cycling, reset is complete.

Manual Device Switching

1. Lightly press Insert push button and hold for 1-5 seconds then release. Device will toggle state.

Insert Button Actions

Button press and hold	LED State	Action
Less than 1 sec	No change	None
1 - 5 sec	Green ON or OFF	Manual device ON/OFF toggle
5 - 10 sec	Blue ON	Network ADD/ REMOVE mode
10 - 15 sec	Red ON	Device local reset (factory reset)
More than 15 sec	OFF	None

Association Groups

An Association Group in Z-Wave technology is a list of linked devices that allows direct communication between them, bypassing the need for a hub or controller. Each group, or set of devices, is linked with a specific event, such as motion detection. The device initiating the communication, known as the "source," can send commands to the "target" devices within the group. The number of Association Groups a Swidget Insert can support will vary depending on the Insert features and the Swidget Wiring Device it is installed in. Each association group can support up to 5 targets (nodes). Please refer to the Swidget Z-Wave Product Manual for additional information.

Command Classes

Command Class	Ver	Required Security Class	Supported Swidget Wiring Devices
Z-Wave Plus™ Info	2	None	All
Basic	2	Highest Granted Security Class	All
Binary Switch	2	Highest Granted Security Class	All except Dimmer Switch
Multilevel Switch	4	Highest Granted Security Class	Dimmer Switch only
Association	2	Highest Granted Security Class	All
Meter	6	Highest Granted Security Class	All except Auxiliary Control Switch and 20-40-60 Control Switch
Configuration	4	Highest Granted Security Class	All
Notification	8	Highest Granted Security Class	All
Multilevel Sensor	11	Highest Granted Security Class	All
Multi-Channel	4	Highest Granted Security Class	15A and 20A Outlets and USB Insert
Multi-Channel Association	3	Highest Granted Security Class	15A and 20A Outlets and all Inserts
Association Group Information	3	Highest Granted Security Class	All
Transport Service	2	None	All
Version	3	Highest Granted Security Class	All
Manufacturer Specific	2	Highest Granted Security Class	All
Device Reset Locally	1	Highest Granted Security Class	All
Indicator	3	Highest Granted Security Class	All
Powerlevel	1	Highest Granted Security Class	All
Security	1	None	All
Security 2	2	None	All
Supervision	1	None	All
Firmware Update	5	Highest Granted Security Class	All

Basic Command Class Support

If the Z-Wave Insert registers as a Binary Switch Device Type in a non-multi-channel environment, then the Basic Command Class functions are mapped to the Binary Switch Command Class functions.

If the Z-Wave Insert registers as a Binary Switch Device Type in a multi-channel environment, then the Basic Command Class functions are mapped to the Binary Switch Command Class functions for Endpoint 1 (the Root node). For Endpoint 2, no mappings exist for the Basic Command Class, so any Basic Commands received by Endpoint 2 will be ignored, and no report will be generated.

If the Z-Wave Insert registers as a Multilevel Switch Device Type, then the Basic Command Class functions are mapped to the Multilevel Switch Command Class functions.

FCC Compliance Statement

This device complies with part 15 of the FCC and ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC Note

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important Note:

To comply with the ISED Canada and FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

Swidget FCC

Contains FCC ID: 2AR26-SWIDGETZW100

Contains IC: 24603-SWDTZW10100

Z-Wave Interoperability

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Warranty

After having been installed according to your local electrical code and by a certified electrician when applicable, and having been used within normal operating conditions, Swidget Corp. will repair or replace (at Swidget's discretion) any product that fails due to manufacturing defects for a period of 5 years for Swidget Host Devices and for a period of 2 years for Swidget Inserts. Any repair or replacement of defective products will extend the warranty by 90 days or the time remaining on the original warranty, whichever is longer. Post warranty repairs are not available.

Swidget shall not be held liable under this warranty for reasonable wear and tear, or damage(s) caused by the following: misuse, neglect, improper installation, abnormal operating conditions, unauthorized modifications or attempts to repair the product.

Any claims to Swidget made under this warranty shall not exceed the cost of the repairs or replacement of the product.

This warranty applies only to Swidget products purchased from an authorized distributor or retailer, and as such, Swidget reserves the right to request proof of purchase, and reject claims for purchases made through unauthorized distributors or retailers.

Please direct warranty claims to Swidget Corp. by telephone at 1-855-202-1144, email at support@swidget.com with subject Warranty Claim. Each warranty return must be accompanied by a completed Return Merchandise Authorization (RMA) form provided by Swidget Customer Service

Problems Or Questions:

If you have any problems with or questions about the Swidget device or Insert, contact our tech support team: support@swidget.com

For the most up-to-date product support, accessories, user manuals and more, visit www.swidget.com or scan the following QR code:

http://zw008uwa-qr.swidget.com/

There are no user serviceable parts in this unit.

If you have problems with your Z-Wave hub, please consult the manufacturer for the appropriate support.

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