NORTEK
SECURITY & CONTROL

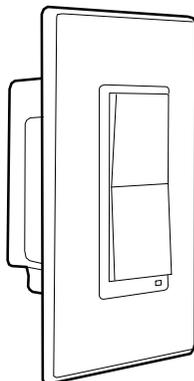# GoControl™   WT00Z5-1
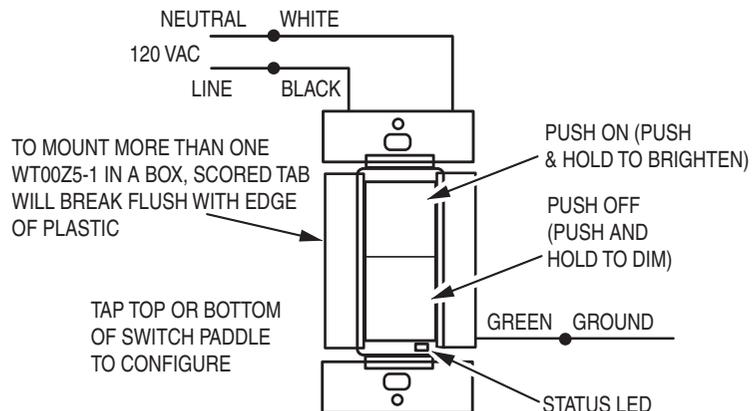
Z-Wave Radio Frequency (RF) Controlled, 120 VAC Scene and NWI Capable, 3-Way Wall Mount Accessory Dimmer Switch, Series 500

Z-WAVE PLUS

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LISTED

Shown with supplied
decorative trim plate

NEUTRAL   WHITE
120 VAC
LINE   BLACK

TO MOUNT MORE THAN ONE
WT00Z5-1 IN A BOX, SCORED TAB
WILL BREAK FLUSH WITH EDGE
OF PLASTIC

TAP TOP OR BOTTOM
OF SWITCH PADDLE
TO CONFIGURE

PUSH ON (PUSH
& HOLD TO BRIGHTEN)

PUSH OFF
(PUSH AND
HOLD TO DIM)

GREEN   GROUND

STATUS LED

NOTE: This unit must be added to the Network **only where it will be permanently installed.** The proper operation of this node in the mesh network is dependent on it knowing its location with respect to other nodes. You cannot "test bench" configure this unit, then install.

WT00Z5-1
3-WAY WALL MOUNT ACCESSORY DIMMER SWITCH

The GoControl™ family of Z-Wave® certified wireless Lighting Products (smart LED fixtures, bulbs, switches, dimmers, outlets and plug-in modules) Control Products (thermostats, irrigation controller and garage door controller) and Sensors (flood, leak, alert sounder, motion sensor and door/window sensor) bring a new level of intelligent wireless Home Automation capability to commercial and residential environments.

The Z-Wave wireless protocol is an international wireless standard for remote home automation, security and other applications. This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

The WT00Z5-1 Wall Mount Accessory Dimmer Switch allows remote ON/OFF control and dimming of lights controlled by associated Z-Wave modules, creating virtual 3-way switches. The WT00Z5-1 controls no load directly, so it can be wired anywhere power is available, without the need for a traveler wire.

GoControl Z-Wave products are easy to install, are Z-Wave certified, and allow dealers to create an integrated wireless network with nearly limitless expansion and interoperability with security, energy management, home entertainment, appliances, and more.

DANGER! SHOCK HAZARD. Read and understand these instructions before installing. This device is intended for installation in accordance with the National Electric code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. It is recommended that a qualified electrician perform this installation. For indoor use only. Retain instructions for future use.

Z-WAVE PLUS FEATURES

The WT00Z5-1 contains a Z-Wave 500 Series Module that supports Z-Wave Plus® features. A Z-Wave certified portable or stationary Controller can communicate with the Z-Wave 500 Series Module.

Depending on the capability of the Controller or gateway software, the following operations can be performed with the WT00Z5-1. Refer to the Controller or gateway manual for details.

- Turn the Associated device ON and OFF.
- Dim the Associated device.
- Add or Remove the WT00Z5-1.
- Over-the-air firmware update by the gateway or static Controller.

- Assign the WT00Z5-1 to a specific Group/Scene and/or to include the Associated device as part of ALL ON or ALL OFF system commands.
- Lifeline function which automatically notifies the Associated modules and the network that a manually reset device is no longer in the network, thus, the corresponding Association becomes invalid.

INSTALLATION

Wire this switch in place of a current wall switch according to the diagram above.

✓ **CAUTION!** Do not wire unit "live" (with power on the circuit).

Adding to a network:

Refer to your Controller operating instructions to add this switch under the command of the Wireless Controller.

1. With your Controller in Discovery or Add Mode, tap the switch. The LED will blink slowly when in ADD Mode.

2. You should see an indication on your Controller that the "device was added" to the network and the LED will stop blinking.

3. The device will appear in the list of Switches. It should display as a switch.

If the Controller/Gateway shows the addition failed, repeat Steps 1-3.

✓ **NOTE:** If you have trouble adding the WT00Z5-1 to a group it may be that the Home ID and Node ID were not cleared from it after testing. You must first "RESET UNIT" to remove it from the network. Although adding it to a group includes it in the network, removing it from a group does not remove it from the network. If removed from a group, it functions as a repeater (only). "RESET UNIT" removes it completely from the network.

To Reset Unit (If Required):

In the event that your primary Controller is lost or otherwise inoperable, to reset the WT00Z5-1 and clear all network information, follow these steps:

1. Tap the top of the switch five (5) times.

2. Press and hold the bottom of the switch for 15 seconds. The LED will increasingly blink faster to indicate that a Reset is taking place.

Removing from a network:

The WT00Z5-1 can be removed from the network by the Controller/Gateway. Refer to the Controller operating instructions for details.

1. Set the Controller into Removal Mode and follow its instruction to delete the WT00Z5-1 from the Controller.

2. Remove the switch by tapping the paddle 2 times. The LED will begin blinking slowly for 10 seconds indicating that it has been removed.

3. You should see an indication on your Controller that the "device was removed" from the network.

BASIC OPERATION

Switches

The paddle on the WT00Z5-1 allows the user to:

- Turn the Associated devices on or off.
- Tapping top of switch turns the Associated device ON.
- Tapping bottom of switch turns the Associated device OFF.

Dimmers

The paddle on the WT00Z5-1 allows the user to:

- Dim the Associated devices.
- Press and Hold the top of switch to increase the intensity of the Associated device.
- Press and Hold the bottom of switch to decrease the intensity of the Associated device.
- Tapping top of switch turns the Associated device ON to the previously set level.
- Tapping bottom of switch turns the Associated device OFF.

LED Indication

To act as a night light, the LED on the WT00Z5-1 will turn ON when the Associated device is OFF. However, the LED can be user configured to turn ON, when the Associated device is ON, if so desired. See "CONFIGURATION" section.

Remote Control

The WT00Z5-1 will respond to BASIC and BINARY commands that are part of the Z-Wave system. Refer to your Controller's instructions as to whether your Controller can transmit those commands.

Associations

The GoControl WT00Z5-1 supports three (3) Association Groups. Group 1 is the "Lifeline" group and must be assigned the Node ID of the Z-Wave Controller to which unsolicited notifications from the WT00Z5-1 will be sent. Group 1 supports a single Node ID. The Z-Wave Controller should set the Lifeline Association automatically after inclusion. For instructions on how to set Associations, please refer to your Z-Wave Controller instructions. Group 2 nodes will be sent BASIC On/Off commands and is intended to control switches like the GoControl WS15Z5. Group 3 nodes will be sent Multilevel Switch commands and is intended to control dimmers like the GoControl WD500Z5. Groups 2 and 3 support up to five (5) Node IDs.

Associations can be created automatically without requiring the Z-Wave Controller.

Creating Associations

1. Learn all devices into the Z-Wave Hub.

2. Tap the paddle of the WT00Z5-1 four times quickly to enter Association mode. The LED will begin to blink quickly (twice per second).

3. Follow the instructions for inclusion or exclusion of the device to be associated. For GoControl devices, tap the button two times.

4. Repeat Step #2 and #3 for up to 5 total dimmers and / or switches within 60 seconds of entering Association mode.

5. Association mode will turn off after 60 seconds or when a node has been associated.

Although the Associations are now functional, it is recommended that you refer to your Hubs instructions to "Heal" the Z-Wave network to recognize the new Associations. Dimmers are automatically assigned to group 3 and other devices are assigned to group 2.

Removing Associations

To remove the Associations, if the Hub has recognized the Associations, refer to the Z-Wave Hub's instructions on how to remove Associations. If the Hub has not recognized the Associations, removing the WT00Z5-1 from the Z-Wave network will eliminate the Associations.

CONFIGURATION

The WT00Z5-1 supports the Configuration command.

The WT00Z5-1 simulates the operation of a dimmer. Using configuration commands you can adjust the dimming parameters as though it were a dimmer. The WT00Z5-1 can be configured to operate slightly differently than how it works when you first install it. Using the configuration command you can change operational characteristics.

Night Light

The Z-Wave BASIC Command Class can control or report the state of LED. The state of the LED depends on the value in Parameter 3.

By default, the LED on the WT00Z5-1 will turn OFF when the Associated device is turned ON. To make the LED turn ON when the Associated device is turned ON, set Parameter 3 to a value of 1.

Parameter	Length	Valid Values	Configuration Option
3	1 Byte	0	LED OFF when the load is on, and ON when the load is off **(default - night lite mode)**
		1	LED ON when the load is on, and OFF when the load is off
		2	LED is always on
		3	LED is always off
		4	LED blinks during RF transmissions from or to the device

Invert Switch

To change the top of the switch to OFF and the bottom of the switch ON, set Parameter 4 to a value of 1.

Parameter	Length	Valid Values	Configuration Option
4	1 Byte	0	Top of switch is ON, bottom of switch is OFF **(default)**
		1	Bottom of switch is ON, top of switch is OFF

Over-The-Air (OTA) Update

Firmware of the WT00Z5-1 can be updated at any time. Follow the instructions in your Z-Wave Hub to send the updated firmware. The LED "winks" twice per second indicating it is in firmware update mode.

Resetting to Defaults

Each configuration Parameter can be set back to its default setting by setting the default bit in the Configuration Set command. See your Controller's instructions on how to do this (and if it supports it). All configuration commands will be reset to their default state when the WT00Z5-1 is excluded from the Z-Wave network by using the Controller to reset the node.

SPECIFICATIONS

Power:	120 VAC, 60 Hz
Signal (Frequency):	908.42 MHz / 916 MHz
Maximum Load:	None
Range:	Up to 130 feet line of sight

REGULATORY INFORMATION

The WT00Z5-1 is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (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 Notice

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 to help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

IC Notice

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with the Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

NOTICES

Z-Wave® and Z-Wave Plus® are registered trademarks of Sigma Designs and its subsidiaries in the United States and other countries.

WARRANTY

What is Covered?

Nortek Security & Control ("NS&C") warrants to consumers who purchase this product for personal, family or household purposes new from NS&C directly or from an authorized NS&C dealer, that the product will be free from defects in materials and workmanship for a period of (1) year from the date of purchase. This warranty only applies if the product is installed at a residence in the 50 United States or District of Columbia, and only at the site of the original installation. It is not transferable. This warranty is not extended to resellers.

If a defect exists, NS&C will have you ship the defective part or product to us and we will, at our option, either repair or replace it.

This warranty does not cover defects or damages caused by improper handling, maintenance, storage, installation, removal or re-installation, misuse, non-factory authorized modification or alteration, use of incompatible accessories, electrical power problems or surges, impact by foreign objects, accident, fire, acts of God, normal wear and tear or shipping damage other than a shipment from NS&C. Note that all NS&C products are designed to be installed, removed and serviced by trained individuals or professionals.

Keep your original sales receipt as it will be required to obtain warranty service.

This warranty shall not be extended or restarted upon receipt of any repaired or replacement part or product under this warranty. No person is authorized to extend or otherwise modify this warranty.

How do I Obtain Warranty Service?

To obtain warranty service, email our Returns Department at returns@nortek.com. Include your name, address, telephone number, the model number of your product, a copy of your original sales receipt, and a description of the problem. Unless we need to discuss the situation further with you, you will be emailed a Return Authorization Number and shipping instructions. If we need to discuss the situation further with you, we will call or email you. NS&C may require troubleshooting on installed product before a Return Authorization Number is issued. Anything shipped to us without a Return Authorization Number will be automatically returned unopened. You are responsible for the charges for shipment to us, unless you are a California resident.

Limitations

THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXCEED THE WARRANTY PERIOD PROVIDED HEREIN.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

NS&C SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF ANY WRITTEN OR IMPLIED WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other legal rights which vary from State to State.

IMPORTANT !!!

Radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

GoControl™