

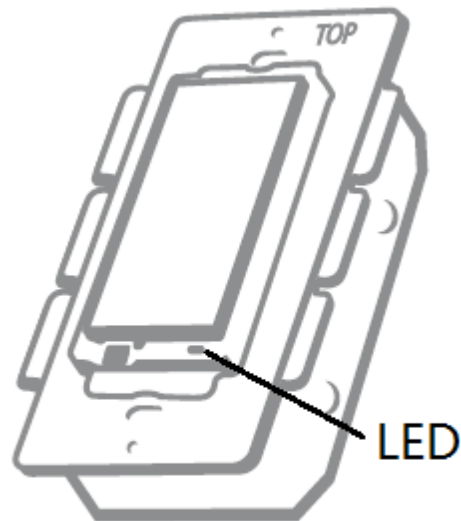


This product speaks with other Z-Wave certified devices

Wireless Appliance Control Module

WS-100

In Wall Light Switch



INTRODUCTION

domitech™ WS-100 is a member of the Z-Wave® family and communicates with other Z-Wave certified devices in a control network. WS-100 replaces a standard in-wall light switch and turns it into a Z-Wave controlled network device. Each Z-Wave device serves as a node to repeat the signal in the network, thus, extending the overall Z-Wave mesh wireless network range. Different types and brands of Z-Wave devices can be associated with domitech in your system and they will work together to optimize and expand the coverage of your Z-Wave network. Once setup is completed, you can enjoy the convenience and leisure which WS-100 offers.

FEATURES

- Works with incandescent, florescent (CFL), or LED lighting and appliance
- ON/OFF status and location LED indicator
- Can be controlled wirelessly or manually
- Fits into standard single or multiple gang junction box and standard wall plates
- GROUP/SCENE/ALL enabled
- Decorative keypad can be replaced manually to match color with other wall switches
- Over-The-Air firmware upgrade available with compatible gateway, Z-Wave static controller, PC and software
- Z-Wave 500 Series module inside
- Internal resettable fuse to protect from surge current
- Manual reset capability

! WARNING !

RISK OF FIRE, ELECTRICAL SHOCK & BURNS

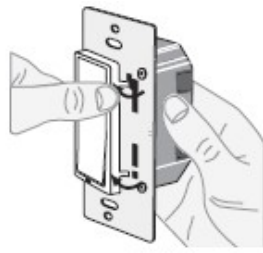
DO NOT USE WITH MEDICAL AND LIFE SUPPORT INSTRUMENT

No user serviceable parts are in this module

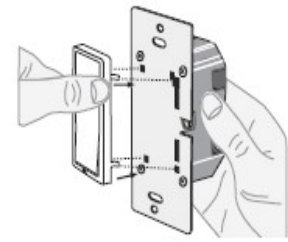
The appliance connected to WS-100 must not exceed 900W incandescent, 200W CFL/LED, ½ horsepower motor and 15A, 1800W resistive load.

The color of the switch keypad is changeable by the following method,

Push side tabs in and lift the cover plate up to release

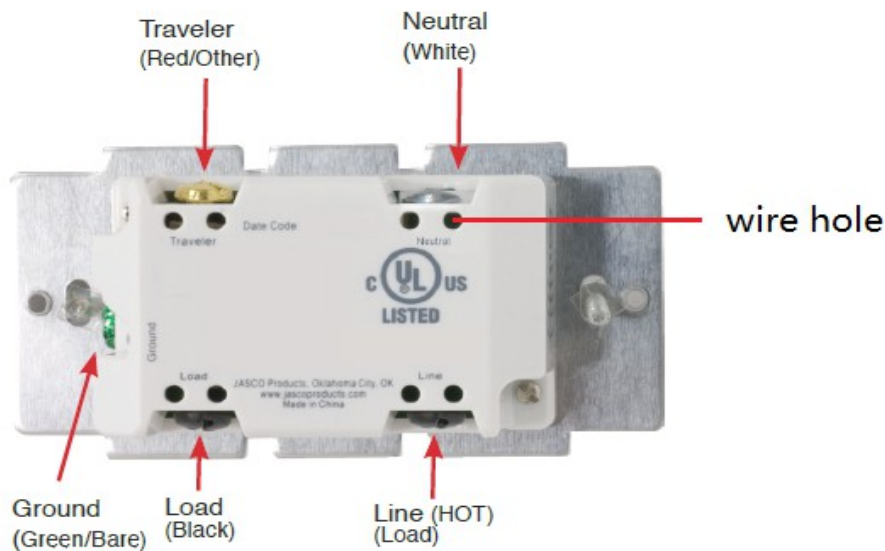


Align the tabs of the replacement cover plate and push to snap in

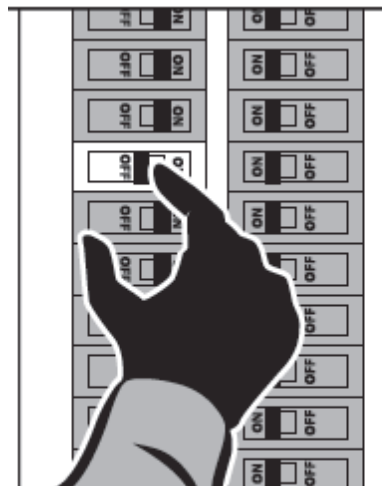


SETUP

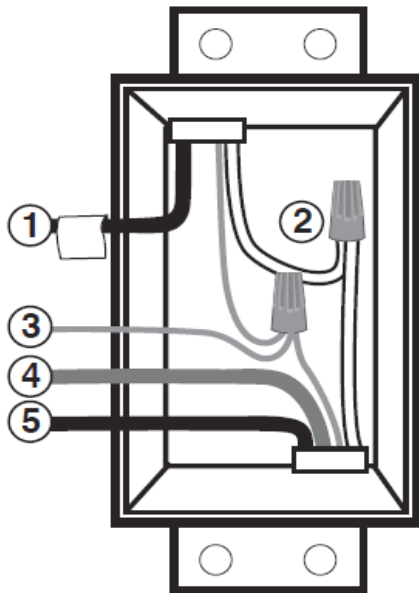
Step 1. Identifying the wiring terminals on the module



Step 2. ! WARNING ! RISK OF SHOCK ! Make sure power is OFF before wiring !



Step 3. Remove the wall plate and the existing switch(if mounted) at your preferred installation location. You may label the wires connected to the screw terminals before disconnecting the switch. Please check that the wiring configuration below is present in the wall switch box, otherwise consult a qualified electrician.



4 wires for 2-way circuit

5 wires for 3-way circuit

1. Line(Hot) - Black

2. Neutral - White

3. Ground – Green or Bare

4. Traveler (3-way) Red or Other

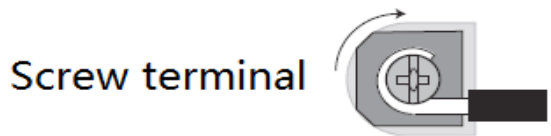
5. Load - Black

Wiring Information

Use copper wires only

UL specification: the tightening torque for the screws is 14 Kgf-cm (12 lbf-in)
Strip insulation 5/8" (16mm)

Wire connection can be made either to

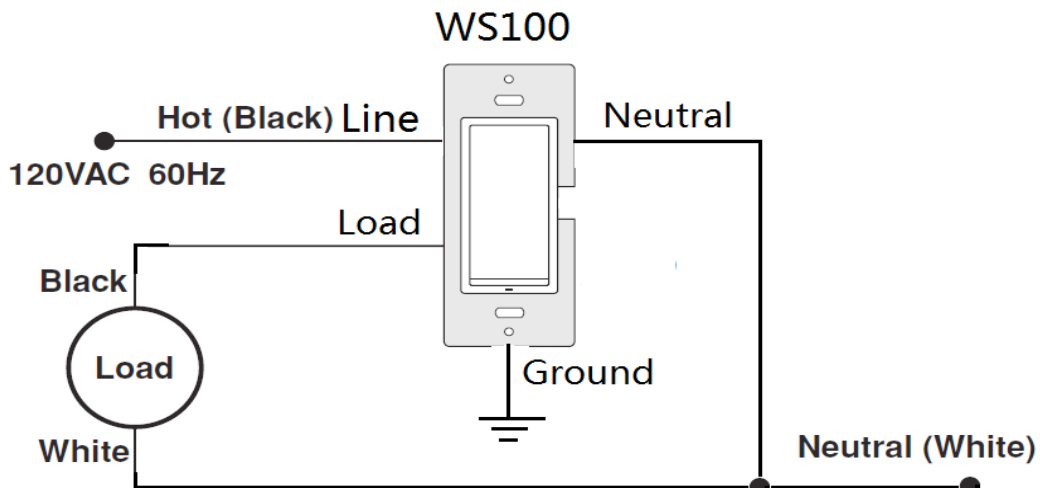


14 AWG or larger rated at least 80°C

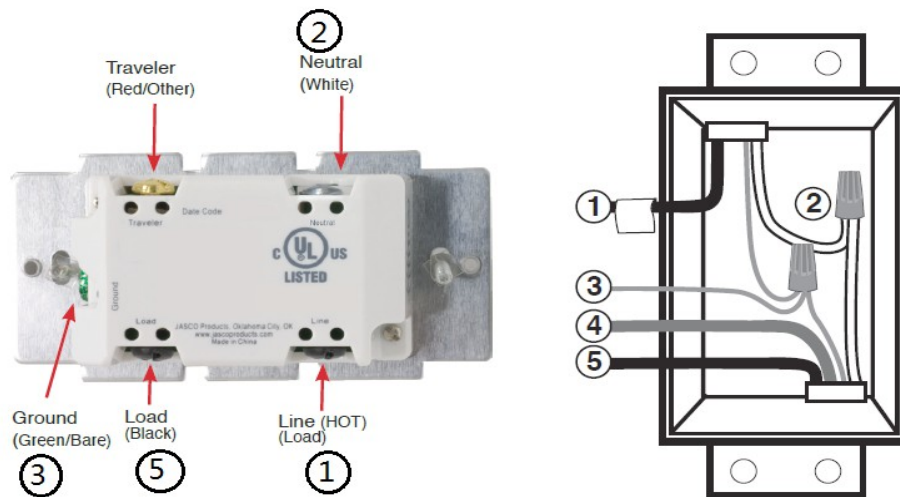


14 AWG rated at least 80°C

2-way circuit

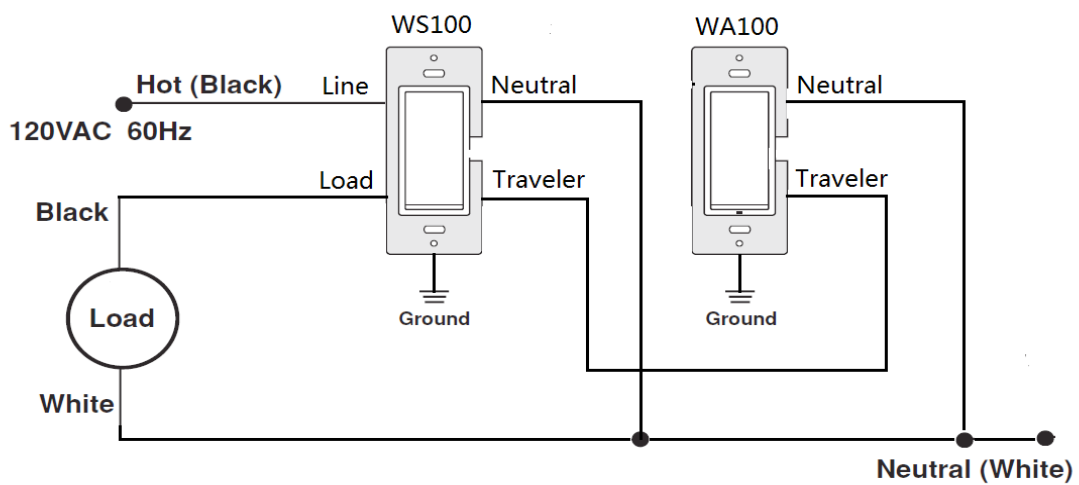


Making connections

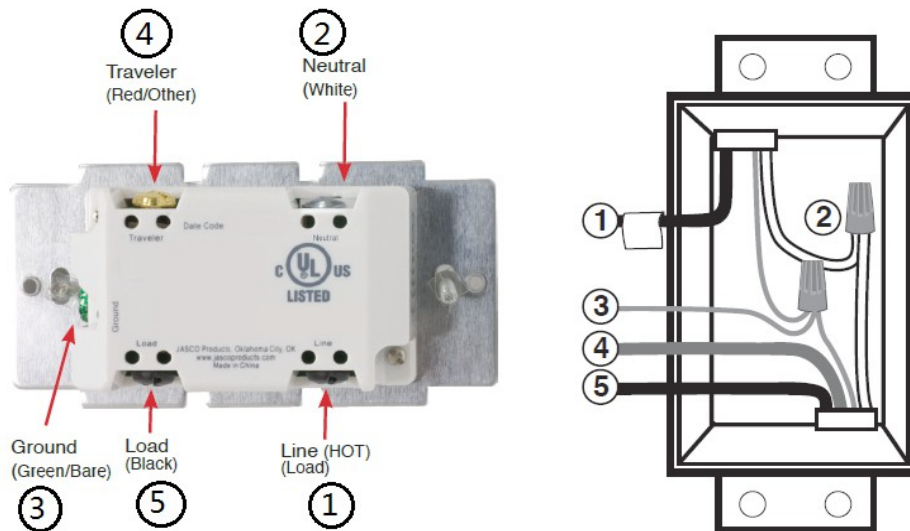


The Traveler terminal is not used in a 2-way circuit. Do not remove the insulation tape on the Traveler terminal in this application

3-way circuit



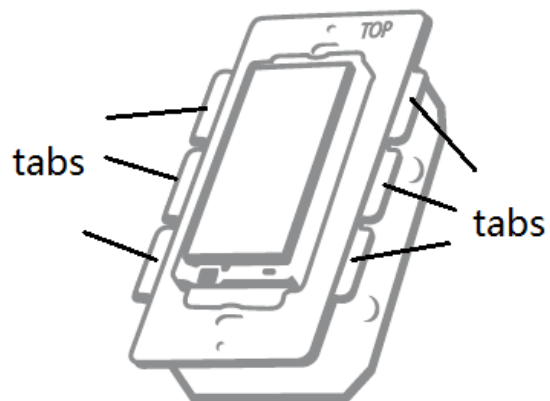
Making connections



Please refer to WA-100 user manual for wiring instructions of the associating switch. The maximum length of Traveler wire may not exceed 250ft.

Gang Box

To install the WS-100 in a gang or J box, the tabs on the sides of the metal yoke may need to be removed. The electrical rating of the module is unchanged. For single gang switch, no changes should be required. For dual or higher gang configuration where switches are next to each other, the tabs need to be removed. Simply take a pair of pliers, grab the tabs and wiggle until the tabs break off.



Step 4. When proper wiring is completed, secure the module to the wall box. Restore power to the circuit to test if the connected load can be turned ON/OFF manually by the rocker on the module before remounting the wall plate. Also observe the status change of the LED indicator to ensure the module is in normal operating mode. If WA-100 Auxiliary Switch is used for a 3-way connection, please also test if it can control the load

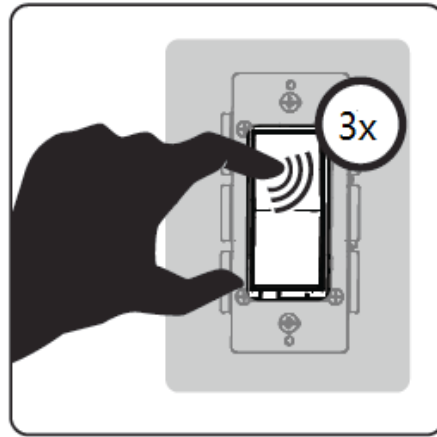
Step 5. Add(Include) the module into your network by a Z-Wave certified controller. Please refer to the controller's instructions manual for details.

Manual Reset

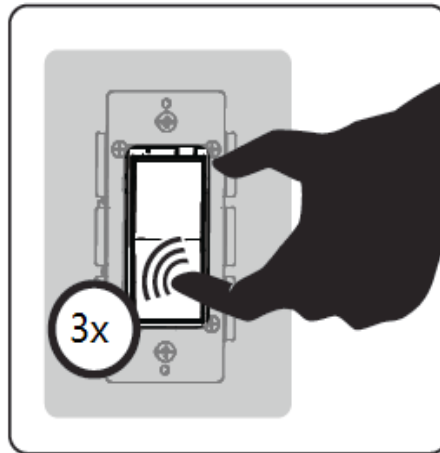
Note: If Inclusion still fails after the 2nd attempt, you need to first reset the module before

repeating the above steps. The manual reset method is as follows,

Quickly tap the top side (ON) of the rocker 3 times



Then, quickly press the bottom side (OFF) of the rocker 3 times

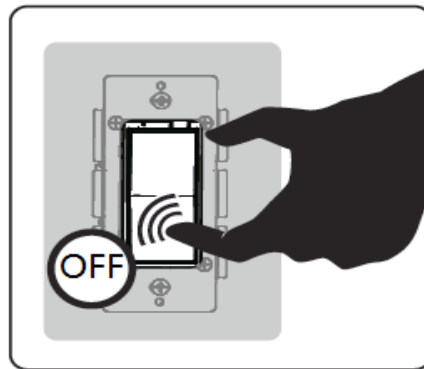
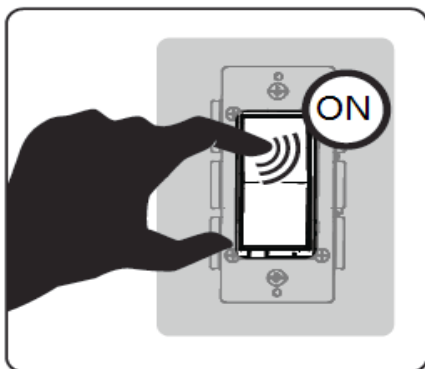


If you see the LED indicator blinks, it means that the module has been reset successfully and you may retry Step. 5 above to add the module into your network. Otherwise, please repeat the manual reset procedures.

Note: If the module was previously Added(Included) in your network, resetting it locally does not mean it has been removed from your network. You may still need to Delete(Exclude) the module from the network by your controller if desired.

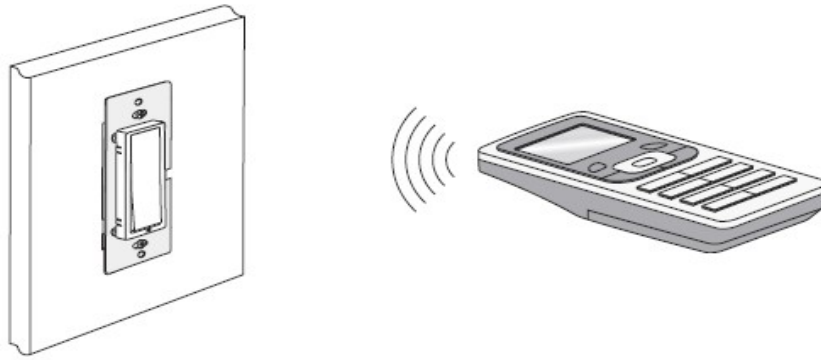
BASIC OPERATION

The connected appliance can be controlled manually with a push button



OR

Wirelessly with a remote controller



A Z-Wave certified controller of either portable or static is capable of setting up domitech products in your desired network. Once the module is added, you may assign it to a Group or Scene, change its reaction when the All ON or OFF command is received. Furthermore, it can be set in Association with another Z-Wave device to perform a specific function. Please refer to the instructions manual of your gateway or remote controller for details and procedures on how these settings can be done.

Please note that the module will be OFF after a power failure

About the rocker switch:

There is only 1 rocker switch on this module for manual operation that allows you to

1. Turn the connected appliance ON/OFF by tapping the switch. Tapping and releasing the upper part of the rocker turns the appliance ON. Tapping and releasing the lower part of the rocker turns the appliance OFF.
2. Add(Include) or Delete(Exclude) the module to/from your Z-Wave network with your primary controller. Please refer to the instructions manual of your gateway or remote controller for details and procedures on how these actions can be done. Normally, the sequence is as follows: when the inclusion (or exclusion) process is prompted by your primary controller, single click and release the rocker switch => the controller should show that the action was successful => if the controller shows it was a fail, repeat the procedure.

Note: the orientation of the ON/OFF on the rocker switch can be inverted by changing the following configuration with a controller(if supported)

Parameter #4 Length: 1 byte Valid values: 0 or 1 (default 0)

About the LED indicator:

By factory default, the LED indicator will be On when the connected appliance is Off, and vice versa. This setting can be changed by the following methods,

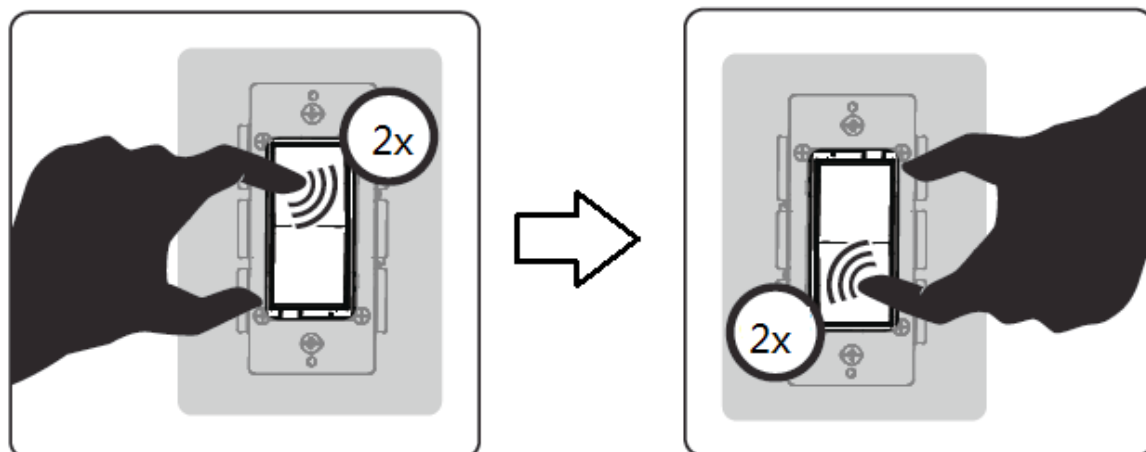
1. Configuration change with a controller(if supported)

Parameter 3 Length: 1 byte Valid values: 0, 1 or 2 (default 0)

If value = 1, the LED indicator will be On when the connected appliance is On, and the LED indicator will be Off when the connected appliance is Off

If value = 2, the LED indicator will be always Off regardless of the load status

2. Manually with the rocker switch



Quickly short press the top(ON) of the rocker 2x and the bottom(OFF) of the rocker 2x, then the LED indicator will be always Off regardless of the load status. Repeating the procedures above restores the factory default

About the Z-Wave 500 Series module:

You can use a Z-Wave certified portable or static controller to communicate with the module. Depending on the capability of your controller, the following simple to advanced operations can be performed. Please refer to the gateway or controller's manual for details.

1. Turn the appliance On/Off
2. Add(Include) or Delete(Exclude) the module to/from your network
3. Assign the module to a specific Group/Scene and to set the reaction to All command
4. Firmware update by PC static controller thru Over-The-Air
5. To observe the Lifeline function which automatically notifies the associated modules and the network a manually reset unit is no longer in the network, thus, the corresponding association becomes invalid

SPECIFICATIONS

Model: WS-100

Input power: 120 VAC, 60 Hz.

Max output loading: 900W incandescent, 200W CFL/LED, ½ horsepower motor and 15A, 1800W resistive load.

Radio frequency: 908.4 MHz/916 MHz.

Wireless range: up to 130 ft line of sight between the controller and the other available nodes.

Normal operating temperature: 77°F (25°C)

For indoor use only.

Interoperability with Z-Wave devices

A Z-Wave network can integrate devices of various classes, and these devices can be made by different manufacturers. The domitech product introduced in this instructions manual has a Z-Wave certification which guarantees such an interoperability.

FCC ID: 2ABWCWS100

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The 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 uses, generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. 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

Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

Important Note: To comply with the 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.

Caution: Exposure to Radio Frequency Radiation. To comply with FCC/IC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

IC: 11786A-WS100

This device complies with 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.

Z-Wave is a registered trademark of Sigma Design

WARRANTY

domitech warrants to the original purchaser of this product that for the warranty period, this product will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the product in accordance with installation instructions and the operating manual supplied to customer. Warranty claims must be made by customer in writing within 30 days of the manifestation of a problem. domitech's sole obligation under the foregoing warranty is to repair, replace or correct any such defect that was present at the time of delivery, or to remove the product and to refund the purchase price to customer. The warranty does not extend to consequential or incidental damage to other products that may be used with this product. For inquiry and

customer service, email to support@dragontechind.com

All brand names shown are trademarks of their respective owners

Warranty period: limited 1 year from date of purchase

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