MINOSTON®

Z-Wave Plug with Energy Monitor(800S)

• MP21ZP •



Specification

Input: 125VAC 60Hz
Frequency: 908.42 MHz
Loading: 15A 1875W RESISTIVE OR GENERAL PURPOSE
10A MAX 1250W TUNGSTEN
1/2 HP
Indoor use in dry location

LED indicator

Blue: Light status indicator
Blue: ADD / Inclusion
Purple: Remove / Exclusion
Red: Network Failure

Program button

Press 1x: Manually ON/OFF the device
Press 3x: Z-Wave Network configuration
Reset: Press the button twice quickly then hold a 3rd press for 10 seconds

Features:

1. Z-Wave control on / off.
2. Z-Wave controlled AC outlet for standard incandescent lighting, CFL/LEDs, fans or small appliances (1875W Resistive Max).
3. Grounded 3-wire power connection for safety.
4. Remembers and restores on / off status after power failure.
5. Built-in Z-Wave Plus signal repeater to extend network range.
6. S2 security and 800 Z-Wave chip for reliable wireless communication.
7. Protection function

(When the protection function is triggered, it needs to be powered the device on again for normal use.)
Voltage protection: when the voltage＞135V, the device will be forcibly shut down
Current protection, when the current＞16A, the device will be forcibly shut down
Power Wattage protection, when the power＞2000W, the device will be forcibly shut down.

Please contact us if you have any questions:

www.minoston.com

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Z-WAVE INTEROPERABILITY

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 the reliability of the network. This Device supports Lifeline (association group 1) supporting 1 node for lifeline communication. Group 1 must be assigned the Node ID of the primary controller where unsolicited notifications will be sent. The Z-Wave controller should set this association automatically after inclusion. Lifeline association only supports the “Device Reset Locally” function.

Adding Device to Z-Wave Network for QR Code

Scan here for SmartStart inclusion

Note: FULL DSK can be found on the packaging box.

Do not remove or damage them.

Notes:

1. Plug the device you want to control into the Z-Wave Smart plug controlled outlet
NOTE: Plug directly into the outlet, do not use with power strip.



2. Your device may need to be within 100 feet of the controller to be included. If so, desired position in your home. Be sure to refresh the network if the device is includedin this manner.



Z-Wave Network Configuration

Adding Device to Z-Wave Network

1. Follow the instructions for your Z-Wave certified controller to add a device to the Z-Wave network.
2. Once the controller is ready to add your device, press the Manual/ Program button on the smart plug 3 times quickly. The blue LED will blink quickly.
3. Complete the settings.

Troubleshooting:

1. If the pairing/including fails, please move the device as close as possible to the hub and try again. You can move to your final location when it is completed.
2. If the LED indicator doesn't light up after pressing the button 3 times, please reset the device by pressing the button twice quickly then hold a 3rd press for 10 seconds.
3. If the reset fails, use the z-wave exclusion feature with your hub to exclude the device, and then add it by following the normal pairing steps.

Note: Whether you have added a device or not, you can use your z-wave hub to exclude devices.

Z-Wave Long Range:

The device is compatible with smartstart. SmartStart enabled products can be added to a Z-Wave network by scanning the Z-Wave QR Code found on the top of the outlet or the back of the box 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 and in the network vicinity.
Note: Z-Wave Long Range device can only support be included via SmartStart. Extract the DSK from the end device and paste it into the DSK Value in the PC Controller, make sure the "Long Range" option is ticked.

To Remove the Device:

1. Follow the instructions for your Z-Wave certified controller to remove a device from the Z-Wave network.
2. Once the controller is ready to remove your device, press the manual/program button on the smart plug 3 times quickly.

KWH Reset:

If you'd like to reset the KWH record, just click the button 10 times very quickly.
Network exclusion or factory reset will NOT automatically erase the KWH data.

To Return the Device to Factory Defaults:

Manual: Press the button twice quickly then hold a 3rd press for 10 seconds
(Light flashes once when reset successfully.)
Host reset: After being excluded from the hub, the device will be returned to factory settings.

Association Group:

Group 1 supports 1 node ID,Group 2 Supports maximum of 5 node ID’s
Association Group 1: Z-Wave Plus Lifeline
Association Group 2: Send Basic Set ON / Off

Regarding SmartThings Usage Exceptions:

If the SmartThings replacement service results in abnormal use of the product, please install a new driver(edge driver) according to the following solutions.

(SmartThings driver subscription channel) (guide video)

1. Scan the above QR code(left)to open the SmartThings Edge Driver subscription channel of the product.
2. Log in to the SmartThings account after opening the SmartThings Edge Driver subscription channel.
3. Select the SmartThings Hub you are using, and click "Enroll".
4. After "Enroll" is completed, click "Available Drivers".
5. After entering the "Available Drivers" page, select "Z-Wave Switch” to "Install".

After installing the egde driver, please remove the device from your hub and re-add it.
Note: Please scan the QR code on the right to view the guide video.

Parameter Settings

Locally Button Press function:

1: press 1x: turn output ON or OFF
2: quickly press 3x: inclusion or exclusion
3: quickly press 5x: change Parameter 1
4: quickly press 8x: change Parameter 4
5: quickly press 10x: Reset KWH
6: Factory reset: Press the button twice quickly then hold a 3rd press for 10 seconds.

LED Indicator

This parameter can access you to choose the LED indicator to be on when the plug (light) is on / off, or LED indicator remains on / off all times.
Operation: Quickly Press 5 Times to Change This Parameter .
(LED flashes 3 times when the configuration parameter changed.)
--- Parameter=1, size=1byte, Default=0
Value=0 (default) LED is On when the switch(light) is On.
Value=1 --- LED is On when switch(light) is Off.
Value=2 --- LED is always Off.
Value=3 --- LED is always On.

Auto Turn-Off

This parameter can access you to set a timer to make the switch turn off automatically after the switch turned on. The number entered as value corresponds to number of minutes.
Operation: Set up on the Hub.
(LED flashes 3 times when the configuration parameter changed.)
--- Parameter=2, Size=4, Value: 0 – 65535 (minutes);
Value=0 (default) disable

Auto Turn-On Timer

This parameter can access you to set a timer to make the switch turn on automatically after the switch turned off. The number entered as value corresponds to number of minutes.
Operation: Set up on the Hub.
(LED flashes 3 times when the configuration parameter changed.)
Parameter=3, Size=4, Value: 0 – 65535 (minutes);
Value=0 (default) disable

Restores State After Power Failure

This parameter can access you to set the switch to be on / off after power failure.
Operation: quickly press 8 times to change this parameter .
(LED flashes 3 times when the configuration parameter changed.)
Parameter=4, Size=1, Value=0(default)
Value=0(default) memory state before power failure.
Value=1 --- The switch is off regardless of the state prior to power failure.
Value=2 --- The switch is on regardless of the state prior to power failure.
This switch will be return to state prior to the power failure after power is restored.

Reports Sending Settings

(LED flashes 3 times when the configuration parameter changed.)

Power Wattage(W) Report

This parameter determines the minimum change in power wattage (W) that will result in sending new power report to the main controller.
Parameter=5, size=1byte, value=5W (default)
value range: 5 - 50W

Time Report

This parameter determines minimum time that has to elapse before sending new power report to the main controller.
Parameter=6, size=4byte, value=5Minute (default)
value range: 1 - 65535Minute

Current(A) Report

This parameter determines the minimum change in Current (A) that will result in sending new power report to the main controller.
Parameter=7, size=1byte, Value=1: 0.1A (default)
value range: (1~10) x0.1A
value=1 --- 0.1A value=2 --- 0.2A
value=3 --- 0.3A value=10 --- 1A

Energy(KWH) Report

This parameter determines the minimum change in consumed energy that will result in sending new energy report to the main controller.
Parameter= 8, size=1byte, Value=1: 0.01KWH (default)
value range: (1~100) x0.01KWH
Value=1 --- 0.01KWH value=2 --- 0.02KWH
value=3 --- 0.03KWH value=100 --- 1KWH

Adjust LED brightness (quickly press 8x: change Parameter.)

(Green LED flashes twice to confirm the setting is successful.)
Parameter=9, Size=1,
Value=0 --- Bright
Value=1 --- Medium
Value=2 --- Low (default.)

Power Report

This parameter determines whether to enable or disable the power report.
Parameter= 10, size=1byte, Default=0
Value=0 (Default) --- Enable power report Value=1 --- Disable power report

Current Report

This parameter determines whether to enable or disable the current report.
Parameter= 11, size=1byte, Default=0
Value=0 (Default) --- Enable current report
Value=1 --- Disable current report

Report Frequency of Current

This parameter determines the interval minutes after the last report of the current.
Parameter= 12, size=4byte, Value=60 Minutes (default)
Value Range: 1 - 65535 Minutes

Report Frequency of Voltage

This parameter determines the interval minutes after the last report of the voltage.
Parameter= 13, size=4byte, Default= 60 (Minutes)
Value=0 --- disable the report Value=0 - 655535 (Minutes)

FCC / IC

This device complies with part 15 of the FCC and Industry Canada license-exempt RSS standard(s). Operation is subjected to the following two conditions:
(1) This device may not cause harmful interference, (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 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 - PLEASE READ!

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 If you are unsure or uncomfortable about performing this installation consult a qualified electrician.

WARNING

RISK OF FIRE / RISK OF ELECTRICAL SHOCK / RISK OF BURNS
TO REDUCE THE RISK OF ELECTRIC SHOCK, THIS PRODUCT HAS A GROUNDING TYPE PLUG THAT HAS A THIRD (GROUNDING) PIN. THIS PLUG WILL ONLY FIT INTO A GROUNDING TYPE POWER OUTLET. IF THE PLUG DOES NOT FIT INTO THE OUTLET, CONTACT A QUALIFIED ELECTRICIAN TO INSTALL THE PROPER
OUTLET. DO NOT CHANGE THE PLUG IN ANY WAY.
CONTROLLING APPLIANCES:
CAUTION: TO REDUCE THE RISK OF
OVERHEATING AND POSSIBLE DAMAGE TO
OTHER EQUIPMENT
• DO NOT EXCEED RATINGS
• DO NOT USE TO CONTROL ANY DEVICE
WHERE UNINTENDED OPERATION COULD
CAUSE UNSAFE CONDITIONS (HEAT LAMP, SUN LAMP, ETC.)

MEDICAL EQUIPMENT

Please DO NOT use this switch to control Medical or Life Support equipment.
Z-Wave devices should never be used to control the On / Off status of Medical and / or Life Support equipment.

CONTROLLING APPLIANCES

Please exercise EXTREME CAUTION when using Z-Wave devices to control appliances. Reason being is because the appliance you want to control may be in a separate room and if unintentional behavior occurs (such as adevice turning on or off - either intentionally via schedules, or unintentionally via network error) this event may lead to a hazardous condition. For these reasons, please note the following suggestions:
1) Do not include Z-Wave devices in Groups or Scenes if they control appliances.
2) Do not use Z-Wave devices to control electric heaters or any other appliances which may present a hazardous condition due to unattended, unintentional, or automatic power control.

Command Class Information

GRNERIC DEVICE CLASS: 0x10 - SWITCH BINARY
SPECIFIC DEVICE CLASS: 0x00 – NOT_USED

COMMANDCLASS:

0x5E - ZWAVEPLUS_INFO
0x25 - SWITCH_BINARY
0x70 - CONFIGURANTION
0x85 - COMMAND_CLASS_ASSOCIATION
0x8E - COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
0x59 - COMMAND_CLASS_ASSOCIATION_GRP_INFO
0x55 - COMMAND_CLASS_TRANSPORT_SERVICE
0x86 - COMMAND_CLASS_VERSION
0x72 - COMMAND_CLASS_MANUFACTURER_SPECIFIC
0x5A - COMMAND_CLASS_DEVICE_RESET_LOCALLY
0x87 - COMMAND_CLASS_INDICATOR
0x73 - COMMAND_CLASS_POWERLEVEL
0x9F - COMMAND_CLASS_SECURITY_2
0x6C - COMMAND_CLASS_SUPERVISION
0x7A - COMMAND_CLASS_FIRMWARE_UPDATE_MD