



Z-Wave Outdoor Plug Energy Monitor(800S)

• MP22ZP •



Specification

Power: 125VAC, 60Hz
Loading: 15A Max Resistive
Frequency: 908.42MHz
Temperature Range: 32° F ~104° F

For outdoor use

Program button:

Press 1x: Manually
Press 3x: Z-Wave Network configuration
Press the button twice quickly then hold a 3rd press
for 10 seconds: Return device to factory settings

LED indicator:

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

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 for reliable wireless communication.
 7. Z-Wave 800 Chip and Support Z-Wave LR.
 8. 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 > 16.5A, 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:

ask@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 5 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 SmartStar inclusion
Note: Full DSK Code 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 extension cords.



2. Your device may need to be within 100 feet of the controller to be included. If so, include the device to the network within 10 feet of the controller and relocate it to the desired position in your home. Be sure to refresh the network if the device is included in this manner.



Z-Wave Network Configuration

Add 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.
- Auto-add mode: LED will blink within 30 seconds after first plugged in.

Troubleshoot

- (1) If paring fails, move the device as close to the hub as possible and try again. Once completed, move to the final position.
- (2) If the manual button does not light up after 3 presses, reset the device by pressing the button twice quickly, then hold the 3rd button for 10 seconds.
- (3) The flashing purple indicator means the device is already paired and in exclusion mode. Reset it before adding it to your Z-Wave network.
- (4) If the reset or add fails, perform a z-wave exclusion on the z-wave controller and re-add it.

Add Z-Wave LR via Scanning QR Code

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.

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 our 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.

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.

Return The Device To Factory Defaults

Manual: Click the button twice quickly then hold for at least 10 seconds. (Light flashes once when reset successfully.)

Host reset: Remove it from hub the device will be restore to factory default.

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

Parameter Settings

(Green LED flashes 2 times when the configuration parameter changed.)

Locally Button Press function

Press 1x: turn output ON or OFF

Quickly press 3x: inclusion or exclusion

Quickly press 5x: change Parameter 1

Quickly press 8x: change Parameter 6

Quickly press 10x: Reset KWH

Factory reset: Press the button twice quickly then hold a 3rd press for 10 seconds.

LED indicator Mode (Parameter 1)

This parameter allows you to configure the behavior of the LED indicator on the device.

Operation: Use your Z-Wave hub to adjust the parameter. Or quickly press the button 5 times to change it.

Parameter=1, Size=1 byte, Default Value=0

Value=0 --- LED ON when the switch (light) is ON.

Value=1 --- LED ON when the switch (light) is OFF.

Value=2 --- LED always OFF.

Value=3 --- LED always ON.

Auto Turn-Off Timer (Parameter 2)

This parameter allows you to set a timer to automatically turn off the device after a specified duration. The number entered as value corresponds to number of minutes.

Operation: Use your Z-Wave hub to adjust the parameter.

Parameter=2, Size=4 bytes, Default Value=0

Value Range: 0~65535 Minutes

Value=0 --- Disable

Value=1 --- 1 Minute

Value=2 --- 2Minutes

...

Value=65535 --- 65535 Minutes

Auto Turn-On Timer (Parameter 4)

This parameter allows you to set a timer to automatically turn on the device after a specified delay. The number entered as value corresponds to number of minutes.

Operation: Use your Z-Wave hub to adjust the parameter.

Parameter=4, Size=4 bytes, Default Value=0

Value Range: 0~65535 Minutes

Value=0 --- Disable

Value=1 --- 1 Minute

Value=2 --- 2Minutes

...

Value=65535 --- 65535 Minutes

Restore State After Power Failure (Parameter 6)

This parameter allows you to set the device to be on/off after power failure.

Operation: Use your Z-Wave hub to adjust the parameter. Or quickly press the button 8 times to change it.

Parameter=6, Size=1 byte, Default Value=2

value=0 --- The plug always remains OFF after power is restored.

value=1 --- The plug always turns ON after power is restored.

value=2 --- The plug restores its last on/off state before the power failure.

Change LED Brightness (Parameter 7)

This parameter allows you to adjust the brightness level of the LED indicator on the device.

Parameter=7, Size=1 byte, Default Value=2

Value=0 --- Bright

Value=1 --- Medium

Value=2 --- Low

Disable/Enable Manual On/Off Control (Parameter 8)

This parameter allows you to enable or disable the manual on/off button on the device. When disabled, the plug can only be controlled through the Z-Wave network (e.g., via a hub or controller).

Parameter=8, Size=1 byte, Default Value=1

0 -- Manual On/Off control is disabled

1 -- Manual On/Off control is enabled

Power Wattage Report Value Threshold (Parameter 9)

This parameter allows the device to send an automatic report when the difference between the current power (in watts) and the last reported power exceeds a specified threshold.

Parameter=9, Size=1 byte, Default Value=5

Value Range: (5~50) x 1W

Value=5 --- 5W

Value=6 --- 6W

Value=7 --- 7W

...

Value=50 --- 50W

Power Wattage Report Interval Setting (Parameter 10)

This parameter allows the device to actively send a report when the time elapsed since the last report exceeds a specified threshold.

Parameter=10, Size=4 bytes, Default Value=5

Value Range: 1~65535 Minutes

Value=1 --- 1 Minute

Value=5 --- 5 Minutes

...

65535 --- 65535 Minutes

Current Report Value Threshold (Parameter 11)

This parameter allows the device to send an automatic report when the difference between the current amperage and the last reported amperage exceeds a specified threshold.

Parameter=11, Size=1 byte, Default Value=1

Value Range: (1~10) x 0.1A

Value=1 --- 0.1A

Value=2 --- 0.2A

...

Value=10 --- 1A

Electricity Report Value Threshold (Parameter 12)

This parameter allows the device to automatically send a report when the difference between the electricity consumption and the last reported electricity consumption exceeds a specified threshold.

Parameter=12, Size=1 byte, Default Value=1

Value Range: (1~100) x 0.01KWH.

Value=1 --- 0.01KWH

Value=2 --- 0.02KWH

...

Value=100 --- 1KWH

Disable Power Wattage Reporting (Parameter 13)

This parameter allows you to enable or disable automatic power wattage reporting. When disabled, the device will not send power consumption reports based on wattage changes.

Parameter=13, Size=1 byte, Default=0

Value=0 --- Enabled

Value=1 --- Disabled (it will not report Power Wattage)

Disable Electrical Current (A) Reporting (Parameter 14)

This parameter allows the user to enable or disable automatic electrical current (amperage) reporting. When disabled, the device will not send current consumption reports based on amperage changes.

Parameter=14, Size=1 byte, Default=0

Value=0 --- Enabled

Value=1 --- Disabled (it will not report electrical current)

Electrical Current (A) Reporting frequency (Parameter 15)

This parameter allows you to set how frequently the device will report the current (amperage) to the hub.

Parameter=15, Size=4 bytes, Default=60

Value Range: 1~65535 Minutes

Value=0 --- Disabled

Value=1 --- 1 Minute

...

65535 --- 65535 Minutes

Voltage (V) Reporting Frequency (Parameter 16)

This parameter defines how often the device will report the current voltage (in volts) to the hub.

Parameter=16, Size=4 bytes, Default=60

Value Range: 0~65535 Minutes

Value=0 --- Disabled

Value=1 --- 1 Minute

...

65535 --- 65535 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 a device 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.

Generic Device Class:

0x10-GENERIC_TYPE_GENERIC_TYPE_SWITCH_BINARY

Specific Device Class:

0x00-SPECIFIC_TYPE_NOT_USED

Command Classes:

COMMAND_CLASS_ZWAVEPLUS_INFO_V2,
COMMAND_CLASS_SWITCH_BINARY_V2,
COMMAND_CLASS_CONFIGURATION_V4,
COMMAND_CLASS_ASSOCIATION_V2,
COMMAND_CLASS_MULTICHANNEL_ASSOCIATION_V3,
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3,
COMMAND_CLASS_MULTICHANNEL_V4,
COMMAND_CLASS_METER_V5,
COMMAND_CLASS_TRANSPORT_SERVICE_V2,
COMMAND_CLASS_VERSION_V2,
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2,
COMMAND_CLASS_DEVICE_RESET_LOCALLY,
COMMAND_CLASS_INDICATOR_V3,
COMMAND_CLASS_POWERLEVEL,
COMMAND_CLASS_SECURITY_2,
COMMAND_CLASS_SUPERVISION,
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5