P-M-O
Wireless Home Automation
Power Meter Outlet

SPECIFICATIONS

Model Number: RPB11647BSB
Z-Wave Signal Frequency: KR (920.9MHz, 921.7MHz, 923.1MHz)
Power: 220V, 60Hz
Maximum Load: 16A, 3200W
Range: Up to 100 feet line of sight
Operating Temperature: -10 ~ 40°c
Product Type: Receptacle
Dimensions: 92 x 156 x 62 (mm)

FEATURES

Basic solution for wireless home automation that replaces regular receptacles
220V up to 16 Amp endurance
Measures energy consumption of home appliance
Manual remote switching ON/OFF function

DESCRIPTION

P-M-O is a Power Meter Outlet that can control On / Off remotely.
You can completely replace your regular outlet.
You can connect home appliances such as home lamps, TVs, and others.
P-M-O is Z-Wave certified device, and it is fully interoperable.
You can view power and power usage in your Z-Wave controller or your apps.
The power status can be remotely controlled, and the LED indication changes according to the power status.
The built-in relay is basically connected-on state.
It is very efficient to remotely control power and monitor the amount of power used.

WARNINGS AND CAUTIONS

Switch the main power off when installing Z-wave products.
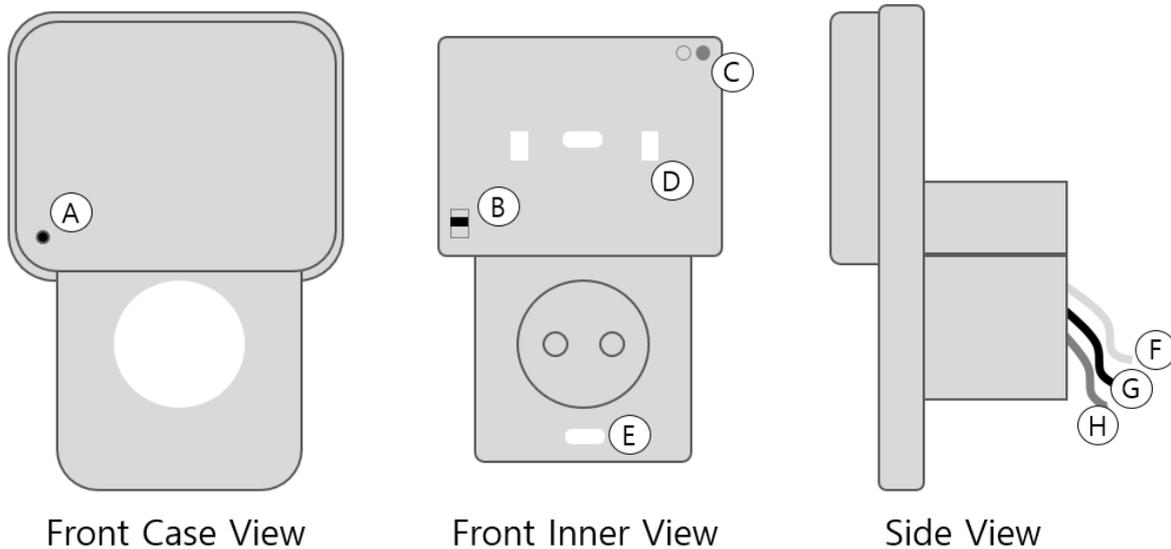
Do not exceed current 16 Amp at all times.

Do not disassemble the outlet.

Switches are not guaranteed to remotely operate in certain circumstances such as radio shadow area.

Z-wave enabled devices should never be used to supply power to, or control the On/Off status of medical and/or life support equipment.

Do not install the products outdoors and/or humid environment

INSTALLATION

Front Case View   Front Inner View   Side View

A	Holl for Push Button	E	Wall Connection screw hole
B	Push Button	F	Hot (red)
C	LED indicator	G	Neutral (black)
D	Case coupling hole	H	Ground (green)

1. Shut off power to the circuit at circuit breaker or fuse box.

   ※ **Warning: Verify power is OFF to switch box before continuing.**
2. Remove wall plate.
3. Remove the outlet mounting screws.
4. Carefully remove the outlet from the outlet box
5. Disconnect the wires from the existing outlet.
6. There are three wires on the P-M-O. Match these to the wires on wall.
7. Fix the P-M-O to the wall and fasten the screw.
8. Place the case on the product.

OPERATIONS

Manual Control
P-M-O has only one operation button.
The following operations are possible with the button.
1. **Manually turn ON**: press and release the button. The green LED indicator will turn on.
2. **Manually turn OFF**: press and release the button. The green LED indicator will turn off.
3. **Add for Inclusion**: When the controller is in add mode, press and hold the button for 3 seconds until the RED LED indicator blinks.
4. **Remove for Exclusion**: When the controller is in remove mode, press and hold the button for 3 seconds until the RED LED indicator flashes. When the P-M-O unit is disconnected from the Z-Wave network, the RED LED indicator will be toggled every second.
5. **Factory Reset**: press and hold button for 10 seconds until green and red led indicators blink.
   P-M-O will be initialized and send a device reset locally notification to the controller. Use this function only if the primary controller is lost or otherwise inoperable.

Remote Control
P-M-O is On/Off Power Switch. You can turn the power on / off remotely, and measure the power and power consumption of the connected appliance.
Z-Wave remote controllers provide control of an Individual device, Groups of devices and Scenes. Please refer to your remote control's instructions for details on its capabilities and instructions for controlling devices.

All-ON and All-OFF
If your primary controller supports All-ON and All-OFF command, the P-M-O outlet can be respond to ALL-ON and ALL-OFF commands. Please refer to your controller's instructions for information on how to use the All-ON and All-OFF command.

Association
Grouping ID	Max number of nodes	Description
1	1	Lifeline: Send device reset locally notification

Restoring Factory Defaults
All network settings and configuration parameters can all be restored to their factory default settings by using manual reset the device or excluding from network. Please refer to Manual Control - 5.

WIRELESS RANGE

This device complies with the Z-Wave standard of open-air, line of sight transmission distances of 100 feet. Actual performance in a home depends on the numbers of walls between the remote controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network.

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 reliability of the network.

Z-Wave Specification

SDK version	6.61.00 (Z-Wave Plus)
Country	KR
Z-Wave hardware platform	ZM5101
Library	slave_enhanced_232
Roll Type	ROLE_TYPE_SLAVE_ALWAYS_ON
Basic Device Class	BASIC_TYPE_ROUTING_SLAVE
Generic Device Class	GENERIC_TYPE_SWITCH_BINARY
Specification Device Class	SPECIFIC_TYPE_POWER_SWITCH_BINARY

No	Command Class	Command	Value	Operation
1	COMMAND_CLASS_BASIC_V2	BASIC_GET	BASIC_REPORT	relay status
		BASIC_SET	0x00	relay ON
			0xFF	relay OFF
2	COMMAND_CLASS_SWITCH_BINARY_V2	SWITCH_BINARY_GET	SWITCH_BINARY_REPORT	relay status
		SWITCH_BINARY_SET	0x00	relay OFF
			0xFF	relay ON
3	COMMAND_CLASS_SWITCH_ALL_V1	SWITCH_ALL_GET	SWITCH_ALL_REPORT	
		SWITCH_ALL_SET	0~2, 0xFF	both or only or none ON/OFF
		SWITCH_ALL_ON	-	conditional ON
		SWITCH_ALL_OFF	-	conditional OFF
4	COMMAND_CLASS_METER_V2	METER_GET	METER_REPORT	value of Meter(0x00) or Watt(0x02)
		METER_RESET	-	initialize Meter
		※ Delta Time : not supported. Only current Watt and Meter is supported.		
5	COMMAND_CLASS_SENSOR_MULTILEVEL_V4	SENSOR_MULTILEVEL_GET	SENSOR_MULTILEVEL_REPORT	value of Watt

Operation is subject to the following two conditions:

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

TROUBLESHOOTING

Cannot carry out add, remove or association

1. Confirm that the outlet is powered.
2. Check if the wireless distance is too far.
3. Check if the Z-Wave network is already connected or disconnected.

The LED indicator does not turn ON

1. Check the wiring connection, especially the neutral wire.
2. Manually with the program button on the outlet.

STARKOFF

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