

Home Automation Wireless Metering Smart Plug

This on/off plug adapter enables remote control and monitoring of lamps and appliances, making them part of a home automation network. The device responds to On/Off cluster commands sent by ZigBee® Home Automation (HA) controllers in the network. The adapter also measures the power delivered enabling the intelligent management of lighting and other appliances to maximize energy conservation while taking advantage of the lowest rates offered by electric utilities. Use of the ZigBee HA Profile ensures compatibility with the emerging standards for smart homes/buildings being deployed around the world.



Benefits

- Remotely controls and monitors lighting and other appliances such as TVs, audio-visual equipment, lamps, etc.
- Measures the energy consumed by the appliance, allowing total energy management by the consumer.
- Controlled via ZigBee, a wireless RF protocol that is rapidly becoming the standard for energy management. Enables appliances to become part of the emerging smart ecosystems.
- Small size and convenient connectivity means easy retrofitability and low installation cost.
- Safety tested to UL and CSA standards.
- ZigBee Home Automation certified.

SPECIFICATIONS:

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Electrical	
Operating Voltage:	95—240 V AC
Operating Frequency:	47-63 Hz.
Max. Load Current:	15 Amps @ 120VAC (10 Amps @ 240 VAC)
Operating power:	Load energized: < 0.50 Watts. Standby: < 0.2 Watts.
Surge protection:	MOV rated for 300V
Mechanical	
Size:	4.0" L X 2.5" W X 1.5" H
Weight:	4.1 Oz.
Mounting:	Through 3-prong plug
Local Load Control:	Yes, through pushbutton
Environmental	
Temperature:	-25—50 °C (-13—122 °F)
Humidity:	5—90 %RH (non-condensing)

OTHER SPECIFICATIONS:

Indicators:	Dual-color LED: Multi-function to indicate network status, binding mode, fault conditions, opt-in, opt-out, and load energized.
Local Control:	Multifunction pushbutton. Local load control. Used for joining network, permit joining, and binding.
ZigBee function:	Manufacturer ID: 0x1075; ZigBee Router
Calibrated Metering Accuracy:	Better than 2% 2W-1500W.

HA Profile: (0x0104)		Device ID: 0x0009 Mains Power Outlet		
End Point	Cluster ID	Cluster Name	Client/Server	Cluster Description
1	0x0000	Basic	Server	Attributes for determining basic information and setting and enabling device
1	0x0001	Power Configuration	Server	Attributes about the power source and for configuring under/over voltage alarms
1	0x0003	Identify	Client/Server	Attributes and commands for putting a device into Identification mode
1	0x0004	Groups	Server	Attributes and commands for group configuration and manipulation
1	0x0005	Scenes	Server	Attributes and commands for scene configuration and manipulation
1	0x0006	On/Off	Server	Attributes and commands for switching device.
1	0x000A	Time	Client	Attributes and commands to interface to a real-time clock
2	0x0702	Simple Metering	Server	Provides mechanism to retrieve electric power usage