

Wireless Adapter (WA100-PM)

Daintree Wireless Solution

The **Wireless Adapter (WA100-PM)** is part of the Daintree product portfolio, an open networked wireless controls solution for lighting and building control, monitoring, and optimization. Daintree controls provide a highly scalable solution to address evolving environmental regulations and transform spaces into intelligent environments for buildings of all sizes.

Consisting of three components, Daintree includes sensors and controls at the edge, an open API cloud platform, and software apps to help facility managers make decisions based on how space and assets are actually being used using a data-rich sensor network. Benefits of adding wireless Daintree controls include:

- Up to 50% Energy savings across lighting, HVAC, plugload, fans and more
- Visibility into energy usage, trends and insights to optimize operations
- Automated demand response, superior comfort and lower maintenance expense
- Regulatory compliance with Title 24; 2005 EnergyPolicy Act; 2007 Energy Independence and Security Act; 2009 DOE Regulations.

Product Overview

The WA100 is a control component within the Daintree wireless building controls platform, and is used to enable open, standards based ZigBee wireless control communications with a range of fixtures and other wired devices. The WA100-PM includes a 15A relay to switch ballasts/drivers and circuits, and provides 0-10V output to control one or more dimmable ballasts/drivers. It can also adapt low voltage occupancy sensors, photosensors, and wall switches/dimmers, enabling these devices to communicate wirelessly with the rest of the system. The WA100-PM provides added versatility with support for bi-level and alternate switching ballast configurations, as well as the ability to control an auxiliary relay or slave pack.

The WA100-PM also includes the capability to monitor and measure the energy consumption of the lighting load being controlled, whether it is an entire circuit or a single light.



Daintree Network Architecture



Wireless Adapter
(WA100-PM)



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Warranty

GE offers 24 x 7 support with a 30-minute rapid response time for technical issues. The average tenure of GE's support is 10 years and a 93% overall satisfaction rating. The table below summarizes the warranty period for all components of the Daintree system.

Component	Warranty Period	Coverage Details
Daintree Software	1 year (on-premise installed Software) Subscription term (SaaS) 3 years	GE warrants that as long as all applicable fees due are paid, Daintree Software will substantially conform to the applicable published documentation and published specifications for the Warranty Period.
System Controller	3 years	100% parts coverage. Warranty for non-Daintree software (such as operating system software) is provided by the respective software GEGE; GE makes no warranty with respect to no-Daintree software.
WACs	5 years	100% parts coverage
Wireless Adapters	5 years	100% parts coverage
Wireless Devices	5 years	100% parts coverage, excluding batteries
Wireless Thermostats	2 years	100% parts coverage

Wire Color	Application
HIGH VOLTAGE (AWG14)	
Black	Active
White	Neutral
Red	Switched
LOW VOLTAGE (AWG22)	
Red	24VDC
Black	Reference Ground (Digital)
Gray	Reference Ground (Analog)
Violet	0-10V Analog output
Orange	0-10V Analog input
Blue	Digital input
Yellow	Digital input
Green	Digital output (low side driver)

Specifications

Dimensions	1.18" H x 1.7" W x 9.33" D
Operating Environment	-4°F to +149°F (-20°C to +65°C) Indoor use only (or inside non-metallic waterproof enclosure)
Indicators	Green LED (power) Green LED (joined network) Red LED (error state)
Mounting	Snap-in 1/2" nipple for junction box mount; Screw tab and optional mounting bracket for in-fixture mount
Switched Output	15A @ 120-277 VAC
Power	120-277 VAC 50/60Hz
Power Consumption	0.54W @120V (Idle, Relay OFF) 0.82W @277V (Idle, Relay OFF) 0.96W @120V (Relay ON) 1.23W @277V (Relay ON)
Binary input (2)	Active high (>= 8.25V). Max 40V, Impedance ~22K
Analog input (1)	0-10V, Max 24V, Input resistance ~90K
Power Measurement	2% accuracy (0.03~15A range) Sampled every 150 sec Aggregated to 60 min intervals"
Ballast/Driver Control	On/Off 0-10V Dimming Bi-Level (Off, Medium, High) Alternate (Off, Low, Medium, High)
Low Voltage Output	24VDC; 75mA
Dimming Output	0-10V; 5mA (sink or source)
Aux Relay Control	Yes (digital output); 75mA (max source, including attached sensors)
Radio Properties	2.4 GHz +8dBm transmit power
Compliance	CSA certified, UL plenum rated FCC Part 15
Warranty	5 Years

Product Code	Product Description
WA100-PM	Wireless Adapter with Power Monitoring

