

Daintree® Wireless Controls

Wireless Adapter (WA100-PM)

Project Name

Date

Type

Catalog Number

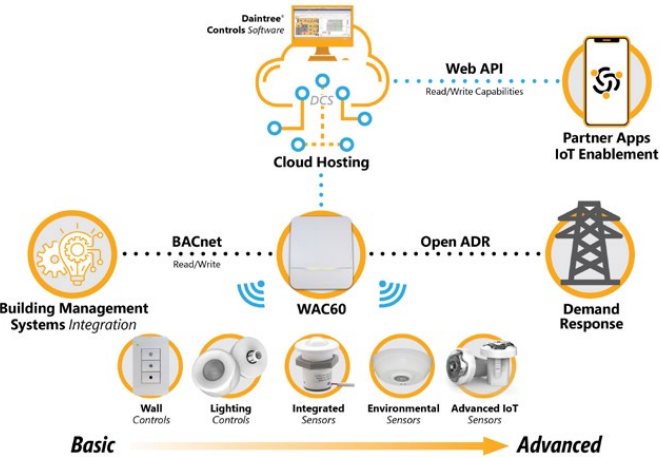


Description

The **Wireless Adapter (WA100-PM)** is a control component within the Daintree Networked 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® Networked Architecture



Ordering Information

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

Daintree® | Wireless Adapter (WA100-PM)

Warranty

Current offers a limited Warranty across its Daintree Portfolio. The table below summarizes the Warranty terms. For additional information, please review the Limited Warranty Document on the Daintree Homepage.

Component	Warranty Period	Coverage Details
Daintree Software	1 year (IoT Cloud installed Software) Subscription term (SaaS) 3 years	Current 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; Current makes no warranty with respect to non-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 input (low side driver)

Specifications

Dimensions	1.18" H x 1.7" W x 9.33" D
Operating	-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 (>= 8V). 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)
Low Voltage Output	24VDC; 75mA
Dimming Output	0-10V; 5mA (sink or source)
Auto Relay Control	Yes (digital output); 75mA (max source, including attached sensors)
Dimming Output	0-10V; 5mA (sink or source)
Radio Properties	2.4 GHz +8dBm transmit power
Compliance	CSA certified, UL plenum rated FCC Part 15
Warranty	5 Years

WA100-PM

CAUTION

RISK OF EXPOSURE IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSAL OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

