

Control4® Wireless Adaptive Phase Dimmer



Control4® Wireless Adaptive Phase Dimmer, 120V—C4-APD120

Control4® Wireless Adaptive Phase Dimmer, 240V—C4-APD240

Control4® Wireless Adaptive Phase Dimmer, 277V—C4-APD277

The Control4® Wireless Adaptive Phase Dimmer is the dimmer of choice for virtually any load type. This dimmer eliminates much of the guess-work associated with choosing the right dimmer for the job and prevents the need to replace the dimmer if the load type changes in the future.

- Compatible with a variety of load types including LEDs, incandescent, halogen, electronic low-voltage (solid state) transformers, magnetic (iron core) low-voltage transformers, fluorescents, and compact fluorescents.
- Supports both forward phase (leading edge) and reverse phase (trailing edge) dimming.
- Automatically detects load type and determines the appropriate dimming type.
- Protection circuitry prevents device damage in case of short circuit or excessive load.
- Continuously measures energy being used by the attached load.
- Elegant, sophisticated design makes a beautiful addition to any home or business.
- Custom engraving available to clearly identify which light each dimmer controls.
- Backlit button engraving with programmable color control for easy readability regardless of time of day or light level.
- Programmable RGB LEDs provide status feedback for lighting and other devices in the system.
- Ambient light sensor automatically adjusts backlight and status LED brightness depending on the light level in the room.
- Available in a wide array of gloss and satin colors (see "Available colors").
- Control4® screw-less faceplates, sold separately, provide a sleek profile (see "Available accessories").
- California Title 20 compliant. See ctrl4.co/title20 for more information on Title 20 / Title 24 compliance.

Control4® Wireless Adaptive Phase Dimmer

Model numbers	C4-APD120, C4-APD240, C4-APD277		
Power requirements	C4-APD120: 120VAC +/-10%, 50/60 Hz C4-APD240: 220VAC-240VAC +/-10%, 50/60 Hz C4-APD277: 277VAC +/-10%, 50/60 Hz This device can function with or without a neutral AC connection depending on load type.		
Power consumption	C4-APD120: 714mW C4-APD240: 1.94W C4-APD277: 2.44W		
Load types and ratings			
Supported load types	Incandescent, halogen; electronic (solid state) low-voltage (ELV) transformers, magnetic (iron core, inductive) low-voltage (MLV) transformers ¹ , phase-dimmable fluorescents, compact fluorescents, and LEDs.		
C4-APD120 maximum load			
	1 Gang	2 Gang	3+ Gang
Incandescent (tungsten)	600W	550W	500W
Halogen ¹	600W	550W	500W
Fluorescent ²	300W	300W	300W
Compact fluorescent (CFL) ²	300W	300W	300W
LED ^{1,2}	120W	120W	120W
C4-APD240 reverse phase maximum load			
	1 Gang	2 Gang	3+ Gang
Incandescent (tungsten)	800W	700W	600W
Halogen ¹	800W	700W	600W
Fluorescent ²	500W	500W	500W
Compact fluorescent (CFL) ²	500W	500W	500W
LED ^{1,2}	160W	160W	160W
C4-APD240 forward phase maximum load			
	1 Gang	2 Gang	3+ Gang
Incandescent (tungsten)	400W	400W	400W
Halogen ¹	400W	400W	400W
Fluorescent ²	400W	400W	400W
Compact fluorescent (CFL) ²	400W	400W	400W
LED ^{1,2}	160W	160W	160W
C4-APD277 maximum load			
	1 Gang	2 Gang	3+ Gang
Incandescent (tungsten)	1000W	900W	800W
Halogen ¹	1000W	900W	800W
Fluorescent ²	500W	500W	500W
Compact fluorescent (CFL) ²	500W	500W	500W
LED ^{1,2}	200W	200W	200W
Minimum load (with neutral), all models			
	C4-APD120	C4-APD240	C4-APD277
All load types ^{1,2}	1.2W	2.4W	2.8W
Minimum load (without neutral)			
Incandescent (tungsten)	7W		
Halogen ²	7W		
Fluorescent ^{1,2}	Not recommended		
Compact fluorescent (CFL) ^{1,2}	Not recommended		
LED ^{1,2}	Not recommended		

NOTES: ¹When dimming magnetic (MLV) loads, each transformer must be loaded to at least 50% of its maximum load

²The minimum and maximum load requirements for fluorescent, CFL, and LED loads can vary greatly depending on the specific fixture and/or bulb being used. The quality and performance of these load types vary greatly from manufacturer to manufacturer.

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Environmental	
Operational temperature	32°F - 104°F (0°C - 40°C) All load ratings are based on an ambient temperature of 77°F (25°C).
Humidity	5% to 95% non-condensing
Storage	-4°F - 158°F (-20°C - 70°C)
Miscellaneous	
Control communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread-spectrum radio
Wallbox volume	5.75 cubic inches
Weight	0.12 lb. (0.05 kg)
Shipping weight	0.18 lb. (0.08 kg)
Available colors	
C4-APD120-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-APD240-xx	WH, BL, SW, MB, BI, AU
C4-APD277-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKFPDAPD-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Rocker (C4-EBDR-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black

Satin colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum

Metal finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

