

Universal Phase In-Wall Dimmer with Neutral Wire, 230 VAC

- > *infiNET EX® wireless communication*
- > *Designed for low-wattage loads, especially LEDs*
- > *Field-replaceable, engravable buttons*
- > *Available in anthracite or white finishes*
- > *Stylish bargraph LED array provides real-time status feedback*
- > *Configurable up to 6 buttons*
- > *Screw-clamp connectors for easy installation*

The CLWI-DIMUNEX delivers Crestron® dimming control to any light, in new or retrofit 230 Volt applications. Featuring robust infiNET EX® wireless technology, the CLWI-DIMUNEX can be installed in virtually any location, thanks to reliable mesh networking. Universal dimming provides automatic compatibility with both forward and reverse phase loads.

Field-Replaceable and Engravable Buttons

The CLWI-DIMUNEX features engravable buttons that can be swapped out in the field. Change of room décor or functionality is easy to handle long after the dimmer or switch has been installed. Positive snap-on fittings require no tools. Configure the dimmer or switch with a large rocker, or any combination of up to two adjacent half-size rockers or triple button pad. Each CLWI-DIMUNEX ships with a full assortment of blank buttons as well.

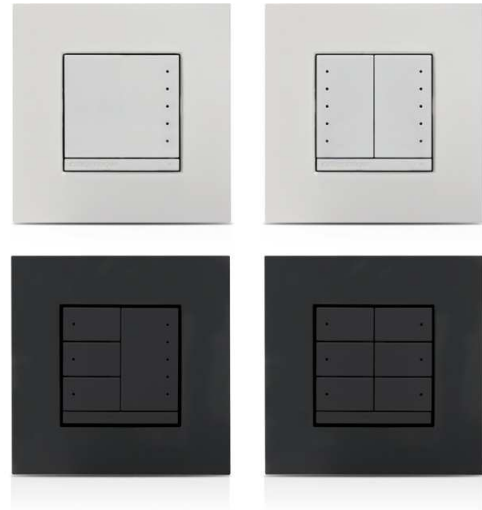
Integrated Keypad

Because the CLWI-DIMUNEX is attached to the Crestron network, it can also function as a keypad, sending commands to trigger whole-room lighting scenes or distributed audio functions. Supporting up to six buttons, the in-wall dimmer or switch serves as a great user control interface in any Crestron system. Its single-box form factor maximizes control capability in a small space while increasing the opportunity for Crestron control in every room. Also available are aesthetically-matched standalone keypads which use Cresnet® or infiNET EX communications.

infiNET EX

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption^[1].

The CLWI-DIMUNEX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-RFGW-EX](#), [DIN-AP3MEX](#), or [MC3](#)^[2]). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths^[1]. Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.



Streamlined Installation

In addition to field replaceable buttons, the CLWI-DIMUNEX features screw-clamp connectors for simplified wiring while reducing installation time and material costs. So slim, the CLWI-DIMUNEX can be installed in square gang boxes making them the perfect choice for both new and retrofit projects.

SPECIFICATIONS

Load Ratings

Load Types: Incandescent, Tungsten-Halogen, Magnetic Low Voltage, Dimmable CFL, Electronic Low Voltage, Phase Control Dimmable LED
Maximum Load Per Channel: 450 VA/Watts
Minimum Load Per Channel: 10 Watts

Power Requirements

220-240 Volts AC, 50Hz, line power

Controls

Buttons: Configurable for 1 rocker (up/down), or any combination of up to 2 small rockers and/or 2 three-button pad; maximum layout contains 6 buttons; each press configurable for up to 3 discrete functions via single click, double click and hold; programmable via control system
Dimming Ramp Rate: 5 seconds (default), software adjustable 0.01 to 10 seconds
Preset Fade Time: 2 seconds (default), software adjustable 0.01 to 120 seconds

LED Indicator

Feedback: Up to (10) White LEDs, depending on button configuration

Wireless

RF Transceiver: infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant

Range (typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); subject to site-specific conditions and individual device capabilities^[1]

Gateway: Requires an infiNET EX gateway^[2]

Connections

Live: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, line power input

Neutral: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, neutral connection

Dimmed Live: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, load output

Ground: (1) screw post, ground

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

1-gang mountable in a 35 mm deep square or round electrical box; gangable in horizontal and vertical positioning; Requires faceplate (not included)^[3]

Dimensions

Height: 2.80 in (72 mm)

Width: 2.80 in (72 mm)

Depth: 1.24 in (32 mm) including front face w/ buttons

Weight

3 oz (85 g)

MODELS & ACCESSORIES

Available Models

CLWI-DIMUNEX-ANTH: Universal Phase In-Wall Dimmer with Neutral Wire, 230 VAC, Anthracite

CLWI-DIMUNEX-W: Universal Phase In-Wall Dimmer with Neutral Wire, 230 VAC, White

Available Accessories

CEN-RFGW-EX: infiNET EX® Wireless Gateway

CEN-RFGW-EX-PWE: infiNET EX® Wireless Gateway w/PoE Injector

MC3: 3-Series Control System® w/infiNET EX®

DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX®

CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured

GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the CLW-EXPEX or GLA-EXPEX (sold separately), or other non-battery powered infiNET EX devices to ensure proper functionality of the network and battery life for the devices. Refer to the **Best Practices for Installation and Setup of Crestron RF Products, Doc. #6689** for complete system design guidelines, or contact [Crestron True Blue Support](#) for further assistance.
2. Item(s) sold separately.
3. Faceplate not included. Requires an FP-INTENSE or FP-PURE faceplate, available in 18 colors and finishes up to 5-gang in size. Contact Crestron International by phone: +32.15.50.99.50 or email: info@crestron.eu.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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