**Overview**

The ELED2 is a wireless lighting controller providing two output channels of 0-10V for intensity and tunable white color control. Simple Tap™ technology is included allowing installers and facility operators to manage configuration settings without any specialized tools.

The ELED2 is designed for open office spaces, classrooms, boardrooms, and conference rooms where intensity and tunable white color temperature control are required or desired. An integral 20A relay and two robust low voltage interfaces allow the ELED2 capacity to control full circuits of LED fixtures.

The controller operates lights based on occupancy state, manual switch action, ambient light levels and gateway commands - implemented through either scheduled events or network overrides. Built-in intuitive application control begins with automating lights on and off through occupancy control when only occupancy sensors are linked. Daylighting control of fixture intensity can be quickly setup in either open or close loop scenarios. Energy code compliance is defined within factory defaults including partial on and partial off requirements. The controller is compatible with all Echoflex sensors equipped with Range Confirmation® technology providing visual feedback of the sensors’ radio signal strength to ensure optimal sensor placement.

When used with Echoflex’s TAP-41 (Task Ambient Photo) photo sensor which incorporates correlated color temperature (CCT) monitoring with light intensity, the controller automatically adjusts color temperature to a predetermined set point in closed loop applications. In open loop applications, the controller takes advantage of the wide temperature range of the TAP-41 to modulate color temperature anywhere within a range set by time-of-day schedules or mimicking outdoor color temperature values.

The controller supports Dim to Warm technology for a smooth transition of warming color temperature as intensity fades. Explicit control of the two output channels via wall switch stations is also supported. Echoflex offers pre-linking and pre-commissioning on all products sold as a system through Echoflex.

**Features**

- Designed for LED fixtures with two channels of 0-10V for dimming and tunable white color control
- Integrated daylight harvesting control supporting open and closed loop applications
- Occupancy state options of automatic partial-ON control or vacancy control with manual ON, partial/full-OFF
- Central Command support for BEMS gateway or time clock control
- Dynamic set point control, Dim to Warm, or manual control of tunable white color temperature LED fixtures
- Pre-linking and pre-commissioning available when sold as a system through Echoflex
- Range Confirmation® allows optimal placement of linked sensors
- Easy commissioning options include embedded Simple Tap™ technology plus Garibaldi, Echoflex’s remote commissioning software
- Easy installation on electrical junction boxes with 1/2” nipple mount
- Energy code compliant

**Ordering Information**

<table>
<thead>
<tr>
<th>Description</th>
<th>902 MHz Model</th>
<th>902 MHz PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tunable White Dimming Controller, 1/2” Nipple Mount, 120-277VAC</td>
<td>ELED2-AU-120-277</td>
<td>8189A1140-X-1</td>
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Equipment Profiles - Remote Devices Supported

| EEP: F6-02-01/02 | Light and Blinds Control - EU and US/Canada applications |
| EEP: D2-14-25  | Light Sensor and correlated color temperature |
| EEP: A5-06-02/03 | Light Sensor - ambient light level ranges with supply voltage |
| EEP: A5-06-01/05 | Light Sensor - exterior light level ranges with supply voltage |
| EEP: A5-06-04  | Light Sensor - curtain wall brightness sensor |
| EEP: A5-07-01/02 | Occupancy Sensor - with supply voltage |
| EEP: A5-07-03  | Occupancy Sensor - with supply voltage and 10-bit light level |
| EEP: A5-37-01  | Energy Management - Demand Response |
| EEP: A5-38-08  | Central Command - switching, dimming, set point |

Power Supply
- 120-277VAC, 50 or 60 Hz
- 500 mW max

Inputs
- LEARN and CLEAR buttons for sensor assignment

Outputs
- LED indicators, Learn (green, red, blue), Power (red)

Maximum Dimming Load
- 0-10V with 100 mA sinking current

Safety Standards Maximum Load: Type and Rating
- Electronic or Magnetic Ballast: 20A @ 120-277VAC
- LED Driver: 20A @ 120-277VAC

Communications
- Radio Frequency: 902 MHz
- Antenna: Integrated Whip
- Transmission Range: 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight

Mechanical Specifications
- Operating Temperature: -5°C to 50°C (23°F to 122°F) ambient
- Relative Humidity: 5% to 93% RH (non-condensing)
- Weight: 14 oz (0.875 lbs)
- Mounting: ½” nipple mount
- Dimensions: 91 x 50 x 50 mm (3.6 x 2 x 2 “)

Regulatory Agencies and Listings
- Energy Code Compliance:
  - California Energy Commission Title 24
  - Washington State Energy Code
  - ASHRAE 90.1-2019
  - IECC 2018
- Safety:
  - Conforms to UL Standard 60730
  - Conforms to UL Standard 924
  - Certified to CAN/CSA Std. E60730
  - UL 2043 Plenum rated
- Radio Frequency (902 MHz):
  - FCC Part 15.231 - Remote Control Transmitter
  - IC RSS-210

Range Confirmation® is an Echoflex Solutions Inc. Patented Technology | Simple Tap™ is a trademark of Echoflex Solutions, Inc. Specifications are subject to change without notification