

# Wireless Remote Lighting Controller

## Luxmatic CL400

### Manage outdoor lighting remotely.

Wireless remote lighting controller, CL400 is an intelligent device that monitors the status of outdoor lighting such as energy measurement and tracking abnormality of lamps, and controls on/off/dimming by using two-way wireless communication.

Check and manage the lights with smartphone and tablet anywhere, anytime.



### Capabilities

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- Remote monitoring (Fault monitoring, Remote control, Scheduling)
- Dimming Control (0–10V, 0~100%)
- Power consumption measurement (Energy use trend, Total usage, Energy saving)
- Event history (Control event history, Usage information)
- GPS-based schedule control
- Built-in illuminance sensor
- Digital Input for movement detection sensor Input

### Features

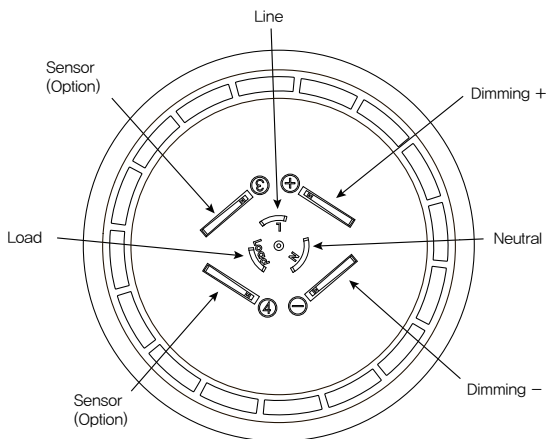
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- Smartphone app for easy setup and management  
Supports smartphone apps that provide all the information related to the outdoors lighting during installation or maintenance.
- Network Security  
Applied \* AES 128/256 algorithm to ensure high security for public facilities lighting that is directly connected with public safety.  
\*AES(Advanced Encryption Standard) – US government standard encryption algorithm. Ensure high security stability.
- Lamp management (Life prediction, Status monitoring, Fault notification)  
Predicts lamp life and notifies the abnormality of the lamp to the administrator.
- Firmware Upgrade  
Support OTAP (Over-The-Air-Programming) function that can easily add functions and upgrade Firmware for complement.
- Data and settings preserved in case of power failure  
The main data and settings are stored in non-volatile memory (EEPROM).  
It prevents operation problem since the final data and setting values are reflected during the recovery after the power failure occurs.

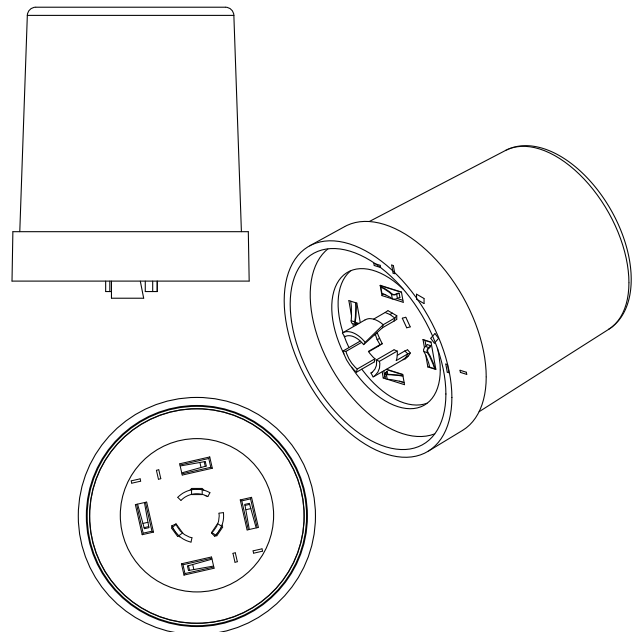
## Specifications

Operating Voltage	100~277VAC, 50/60Hz	Dimming Control Signal	0~10V (ESTA E1.3)
Power Consumption	<2W@120/277V (1.42W @120V/60Hz)	RTC	Internal RTC with super CAP
Power Switching	400W	GPS	(option) Ublox M8 base GPS with Internal Antenna Horizontal Position Accuracy 2,5m
Relay Current	5A	Photocell	Photocell daytime override (Built-in, Option)
Relay Protection	Zero Crossing Control	Sensor	External Motion Sensor I/F (DC12V,100mA)
Surge Protection	6KV / 10KA	Secure	AES 128/256, SHA-1,SHA-2 encryption
Operating Temperature	-40°C ~ +70°C	Connector	NEMA 7 pin (ANSI C136.41-2013)
Wireless Communication	IEEE 802.15.4, 2.4000~2.4835GHz 40 Channel Max. Average power : 19 dBm Mesh Network with Multi Sink Node to Node range : 200 m (LoS) OTAP(Over The Air Programming) program update Beacon Support Configuration using Smart Phone Application  Calibrated 1% accuracy	Size	85 mm (∅) x 100 mm (H)
Power Metering	Real-time/Accumulated Power Consumption	Color	Gray / Translucent
Measuring Item	Voltage, Current, Power Factor	Safety compliance	IP66 FCC, IC KC, UL, CE
		Certifications	DLC
		Warranty	5 year limited warranty

## Wiring Diagram



## Appearance



**FCC Compliance Statement**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.