

LCS SERIES LIGHT CONTROL SYSTEM

F E A T U R E S

- Works with any CNA automation system or as a standalone dimmer
- Front panel manual overrides
- Remote override capability
- Front panel displays current light level
- Controls up to 16,000 watts of incandescent light
- Easy configuration
- Can be configured for 120 or 220 Volts at the time of order
- Front mounted circuit breakers
- Channels are line phase independent
- Square law dimming for accurate light response
- Extends incandescent bulb life
- Parameters stored in EEPROM
- Strong's dimmer circuitry comes housed in a custom made, heavy duty 16 gauge steel cabinet with a durable powder-coat finish
- Fully grounded front panel and chassis for enhanced safety
- Clearly labeled internal wiring terminations
- Vented cabinet eliminates damaging heat build-up
- Units have U.L. and CE approval
- Time tested circuit reliability



LCS-4K 4,000 Watt Automated Dimmer

Overview:

Strong's LCS-2K and LCS-4K Light Control Systems are used to create custom lighting effects in the theatre auditorium. The system is based on a QDC-400 control board and the 37870 2,000 watt power module. The QDC-400 is a 4 channel dimmer controller that can drive up to two 37870 power modules per channel. The LCS-2K/4K can operate as a stand-alone dimmer or with a CNA cinema automation. Setup is quick and easy, especially when used with the CNA automation system and CineSuite software. When paired with a CNA automation, lighting events can be controlled by cues running during a film presentation.

The QDC-400 dimmer control card used in Strong's LCS lighting control system provides the flexibility and features to fully synchronize your lighting events. The QDC-400 dimmer controller has programmable wake-up states, transition times, minimum and maximum levels, and features inputs for override switches and manual controls. It integrates seamlessly with any CNA automation system with up to date firmware via the LIN I/O network.

This controller's features make it ideal for situations where flexibility, versatility, and CNA system integration are of primary importance.



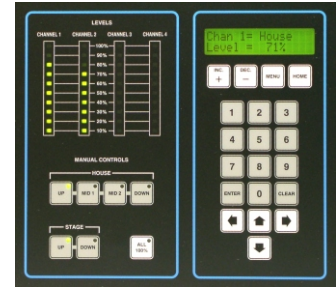
a division of Ballantyne of Omaha, Inc.

Strong

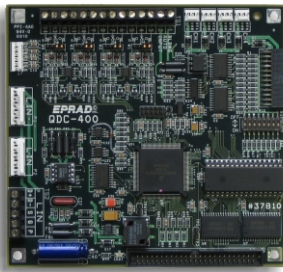
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Part Number	Description
37890-0	LCS-2K Light Control System: 2,000 watt, Front panel controls, Control board, operates as standalone or with CNA automation via LIN network
37890-2	LCS-2K Light Control System: 220 volt version of above dimmer
37890-1	LCS-4K Light Control System: 4,000 watt, Front panel controls, Control board, operates as standalone or with CNA automation via LIN network
37890-3	LCS-4K Light Control System: 220 volt version of above dimmer
37890-K	LCS-2K to LCS-4K Conversion Kit: Cables, power module, breaker and instructions for converting a 2,000 watt unit into a 4,000 watt unit

For additional power handling capacity choose from the 37893 series of auxiliary cabinets. These units feature 2,000 and 4,000 watt capacities in either 120 or 220 volt models.



LCS-4K Data Entry Panel



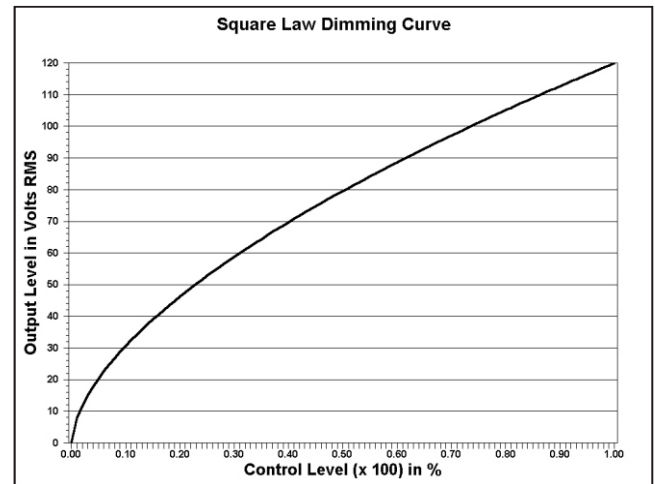
QDC-400 Dimmer Controller

The LCS dimmer's data entry panel has keys for manual controls with LED state indicators as well as a numeric keypad with system specific keys used for menu navigation. The Backlit LCD displays system parameter and setup information. There are four 10 segment LED bar graph indicators each representing one of the channels of the QDC-400 controller. Output levels are displayed here in 10% increments.

The QDC-400 has four channels of line phase independent control. Each channel capable of driving two 2,000 watt dimmer modules. The QDC-400 connects to the LIN (Local I/O Network) and receives it's set up parameters and commands from the CNA automation system. Light levels for each channel can be stored and recalled by the CNA automation. The LCS dimmer's front panel interface allows easy setup as well as operational feedback via its LCD display and LED bar graph. This Keypad/display combination forms the user interface when running the dimmer in standalone mode. Each level can be set from 0% to 100% in 1% increments. Each level also has an associated 'fade-in' time. The fade-in time controls how long it takes the lights to ramp to a new level. The fade-in time can be set from 0 to 99 seconds with 1 second resolution.

Physical characteristics:

- Unit measures 15.25" Wide x 20.25" High x 5" Deep
- Weighs approximately 23 lbs
- Vented cabinet eliminates damaging heat build-up
- Comes in a custom made, heavy duty 16 gauge steel cabinet
- Durable matte black powder-coat finish



The QDC-400 in the LCS series of dimmers follow the "Square Law" dimming curve. This programming algorithm ensures accurate illumination by tying together perceived light levels, a programmed percentage on the display or automation, and actual output to the load circuit. This precision digital controller's functions are independent of environmental factors. Accurate levels can be stored and recalled for later use.