LPA · LPE · LPB

Remote Lighting Control Powered by the World's Best Relays

P-Series

PLC Buildings

Lighting Control Systems

Lighting control network capable of operating up to 8,432 circuits with just two 24V signal wires.

The P-Series of lighting control systems from PLC-Buildings features the world's finest, most dependable relays from Panasonic. These systems offer Full 2-Way remote lighting control for easy operation and even easier installation. They use just two ± 24V signal wires for all the switches, motion detectors and daylight sensors on a network, and control lighting using latching relays. This requires fewer wires than conventional remote control wiring. It's cost-effective and easy to configure this system with programming and other accessories. With centralized monitoring and control, the system can manage up to 256 circuits per system, and it is capable of controlling as many as 127 groups of lights in a single application area.

Up to 72 control patterns can be programmed to match work schedules, allowing for maximum occupant satisfaction while achieving energy and operating cost savings. The program timer is easily configured to match either a daily and/or astronomical schedule for lights to be automatically turned "ON" and "OFF". Passive infrared motion sensor control is also offered to turn "ON" and "OFF" depending on occupancy of a monitored building space.

For additional energy savings, indoor daylight sensors can be included to adjust light levels depending on the brightness of the environment.
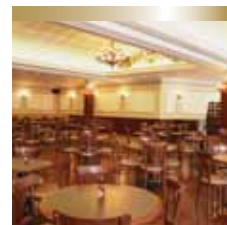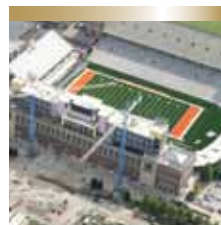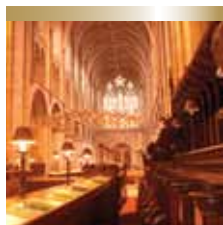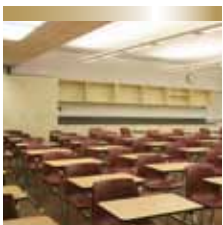
LPB - Basic
This is the basic version of this robust system. Even though it is the "entry-level" unit it is rich with all the standard features included in the product line.

LPE - Enhanced (8 Zones)
This is the enhanced version of this Panasonic powered series. This system offers added energy saving possibilities with multiple operation options of dimmer controls and photo sensors. The LPE also offers a variety of user-selectable programmed operational functions such as photo control, sweep and time scheduling.

LPA - Advanced (255 Zones)
The LPA is the advanced version of this fully networkable line of controllers. In addition to the capabilities above the LPA offers communication protocols for RS485 Modbus, Bacnet and Ethernet. Optional Operator Interfaces include a touchscreen display and web server.

Features

Program Timer

Provides "OFF" Delay and "ON" Timer options for Individual and group functions. LCD display timer unit system level device for scheduling loads on daily, weekly, monthly, or yearly basis up to 30 separate channels. Automatic daylight savings time function and astronomical clock programs Full 2-Way wall switch. EEPROM memory storage of groups and patterns eliminates the need for battery backup.
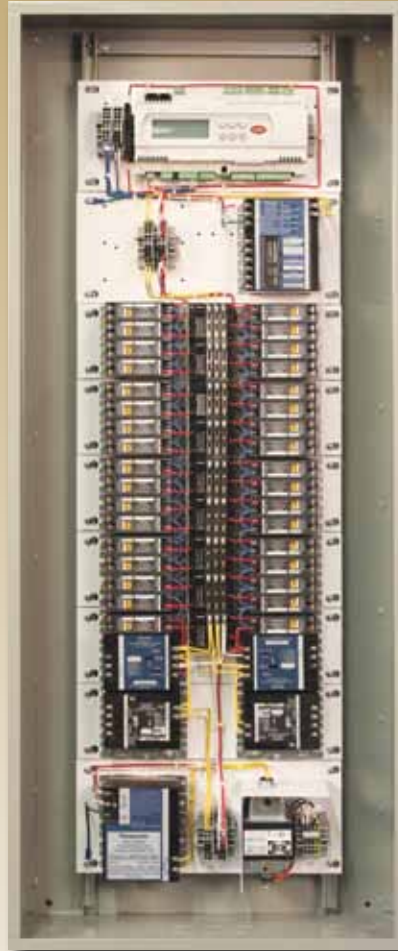
Relays and Relay Controls

"ON"/"OFF" control of lighting and other electrical loads using mechanically latching relays. Control using individual, group and pattern functions.

CPU, Transformer and Terminals

Powers panel components with multi-tap transformer.

LPC Controller and Contact Input (Enhanced)

Automatic daylight savings time function. Accumulated run time hours are logged. System can use one networked daylight sensor per zone or up to 3 sensors from PLCSensors. Input photo sensor time delay prevents intermittent or false switching. 1/2 hours hold-on timer prevents high intensity discharge lighting from short-cycling. Time clock configurable as 7-day with two "ON"/"OFF" events per day; 7-day with optional timed override and sweep sequence.

Dimmer Driver

Dimmer had level and fade time. IR Address programming for incandescent and fluorescent dimming. Includes relays for switching 0-10V controlled ballasts.

LPC Controller with Communication (Advanced)

Protocol using RS485 Modbus, Bacnet and Ethernet. IR Address programming with web gateway and the LPC controller LCD.

Remore Access Via the Web

Remote access and control is made easy using our web server platforms. Utilize our P-Web platform for a single LPA controller or our G-Web platform for a network of up to 31 controllers. Incorporate custom interfaces for even more maximum flexibility.

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General Specifications

P-SERIES FEATURES

Panel Mounted Components	Main Control Cabinet	Expansion Cabinets
Maximum Addresses	256	
Single Pole 300V 20A Relays	48	208
Double Pole 300V 20A Relays	24	232
Four Pole 600V 20A Contactors	18	238
Eight Pole 600V 20A Contactors	18	238
Incandescent 120V 800W Dimmers	12	244
Fluorescent 0-10V Dimmers	12	244
Dry Contact Input	96	160
Contact 6A Output	96	160
Input Voltage	120, 240, 277, 480	120, 240, 277, 480

Remote Mounted Components	Maximum	Minimum
Daylight Sensors	256	85
Office Motion Sensors	256	85
High Bay Motion Sensors	256	85
Wall Mount Motion Sensors	256	128
Outdoor Motion Sensors	256	128
1 Button Switches	256	256
2 Button Switches	128	128
3 Button Switches	85	85
4 Button Switches	64	64

SPECIFIC FEATURES	LPA	LPE	LPB
FULL 2-WAY Network	Yes	Yes	Yes
G-Web Compatible	Yes	Yes	Yes
P-Web Compatible	No	Yes	Yes
Auto/Setup	Yes	Yes	No
Timeclocks	8	8	1
Events	56	56	32
Sweep Sequence	Yes	Yes	No
ETL /UL508A	Yes	Yes	Yes
CEC Title 24	Yes	Yes	No
LEED	Yes	Yes	Yes
Warranty	2 Years	2 Years	2 Years

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