



# PARKING LOTS & STRUCTURES

Lighting Control & Design • Application Guide

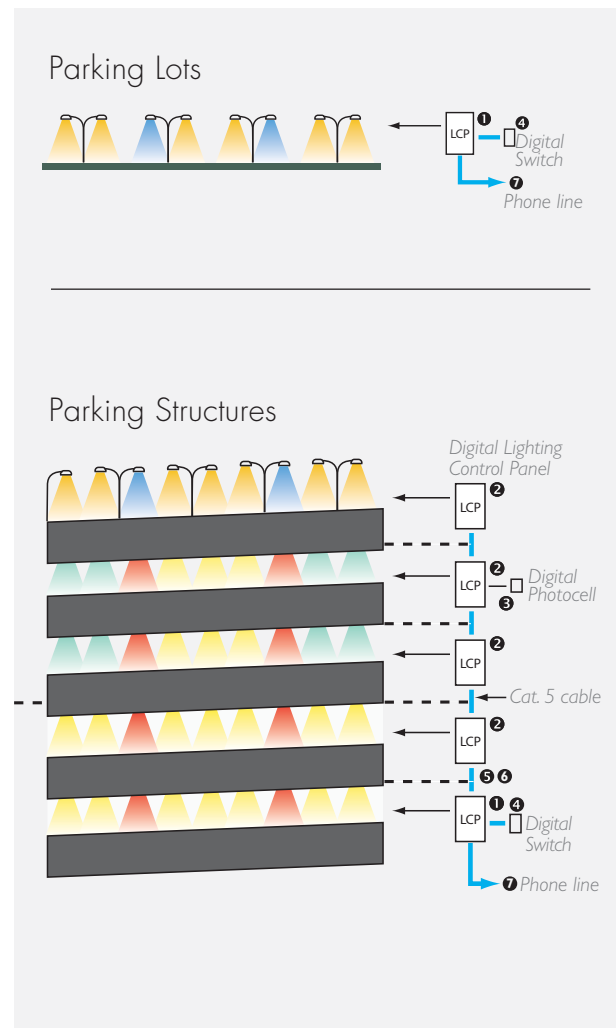
# LIGHTING ZONES & SUPPLEMENTAL DEVICES

## Lighting Zones

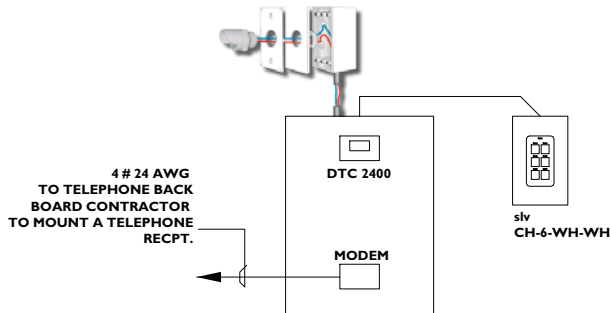
- Outdoor General Lighting: ON at dusk, OFF at end of day
- Outdoor Security Lighting: ON at dusk and OFF at dawn
- General Lighting: ON during business hours
- Security Lighting: always ON
- Daylight Harvesting: ON at dusk, OFF at end of day. Also switched ON to compensate for low ambient daylight

## Devices

1. 2400 Master Relay Panel with Digital Time Clock
2. 2400 Slave Relay Panel
3. Outdoor Digital Photocell: for daylight harvesting, remotely adjustable
4. Digital Switch: for override of scheduled lighting events
5. Cat. 5 patch cable with RJ45 connectors
6. GR 2400 digital bus: local or remote programming of time schedules and daylight harvesting
7. Shared analog phone line for remote dial-up programming and adjustments, occasional use



## Parking Lots



LCP 1  
LOCATION: BUILDING A  
GR 1416/08-DTC MODEM

PART #: LCP 1 GR 1416/08-DTC MODEM  
ENCLOSURE DIMENSIONS: 18"H x 12"W x 6"D  
NEMA RATING: I

Relay	Line Feed	Zone	Voltage	Description	Relay	Line Feed	Zone	Voltage	Description
1	HA-1	Z1	480V	HID Lights	2	HA-2	Z1	480V	HID Lights
3	HA-3	Z1	480V	HID Lights	4	HA-4	Z1	480V	HID Lights
5	HA-5	Z1	480V	HID Lights	6	HA-6	Z1	480V	HID Lights
7	HA-7	Z1	480V	HID Lights	8	HA-8	Z1	480V	HID Lights
9	HA-9	Z1	480V	HID Lights	10	HA-10	Z2	480V	HID Lights
11	HA-11	Z1	480V	HID Lights	12	HA-12	Z2	480V	HID Lights
13	HA-13	Z1	480V	HID Lights	14	HA-14	Z2	480V	HID Lights
15	HA-15	Z1	480V	HID Lights	16	HA-16	Z2	480V	HID Lights

Zone	Zone Name	Zone	Zone Name
Z1	General Ltg	Z2	Security Ltg

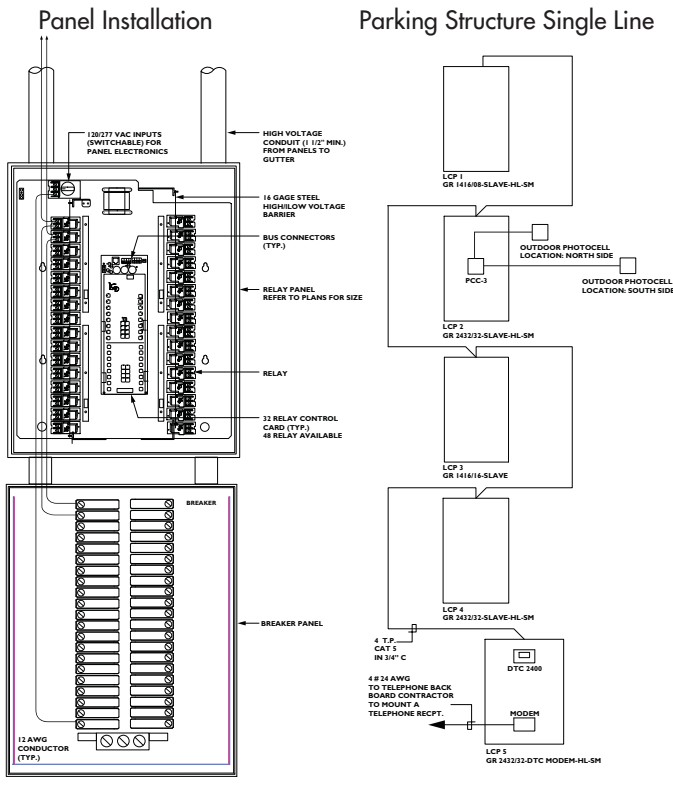
## Parking Lots

The control of parking lot lights is made easy with the GR 2400 system. With a built-in astronomical clock the need for photocells is usually eliminated, lowering maintenance costs.

Quickly adjust schedules and relays to meet changing needs or tenant requirements.

The single line drawing to the left shows the low voltage hook up for a simple parking lot lighting control system. The panel schedule shows (8) two-pole relays controlling HID lights at 480 VAC. Zone 1 is General Lights and Zone 2 is Security Lights.

## Parking Structures



## Parking Structures

Typically one Lighting Control Panel per floor is installed. Panels are linked with a single Cat. 5 cable. A single DTC clock in the master panel will control all relay panels on all floors. Remote dial-up programming allows for easy schedule changes and photocell trip point adjustment.

One or two digital photocells are typically enough for an entire parking structure. Contact LC&D for assistance with placing photocells. Panels are typically mounted vertically as shown on the left.

## Technical Support

LC&D recommends the following products for parking lots/structures:

- GR 2400™ Relay Panel
- Chelsea™ DigitalSwitch
- Outdoor Photocells

# CUSTOMER SATISFACTION

**C**ustomer satisfaction is our #1 concern. It is a privilege to be considered for your project, and we prove it by offering support for every one of our customers that no competitor will ever match.

Each LC&D lighting control system comes with free dial-up programming for the life of the system. This is especially valuable to store owners who are often too busy to dial into stores and do their own schedule changes.

Our Technical Support department is just a phone call away to change seasonal schedules, adjust temperature settings, run diagnostics and more – all free of cost. LC&D systems are remotely accessed by our expert technicians using UNITY software to dial into outlets, and require no in-house programming.

We are always on stand-by to assist with all your needs. Our Engineering Assistance Department is available to assist the design process with general advice, best practice methods for code compliance, and/or complete CAD drawings.

We'll even do a free energy analysis of your existing lighting control system to help you determine whether or not you are getting maximum benefits.

Lighting Control & Design offers 24/7/365 support. Call us at 800-345-4448 to get the answers to your questions today.

## LIGHTING CONTROL & DESIGN

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