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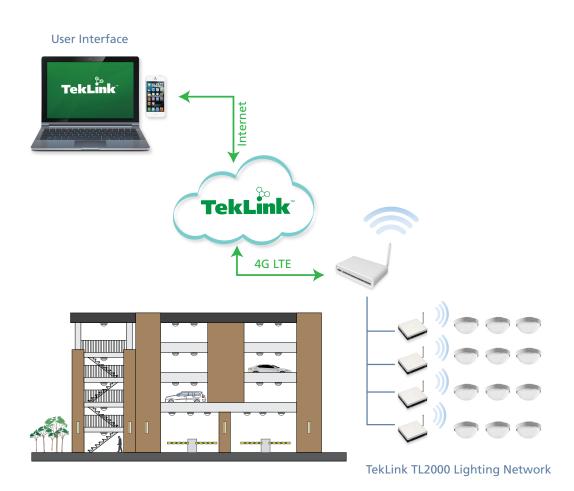


1.0

Introduction

TekLink TL2000 is an adaptive lighting control system that utilizes a wireless communication between system nodes. In addition to occupancy detection and daylight harvesting, the TL2000 system features advanced scheduling and energy management capabilities with cloud-based control of system settings, reporting and notifications for use in parking decks and high bay applications. The system offers the ability to meet ASHRAE 90.1 and Title 24 requirements.

This guide details the basic operating principles, features, device information, and wiring guide for TL2000 series.



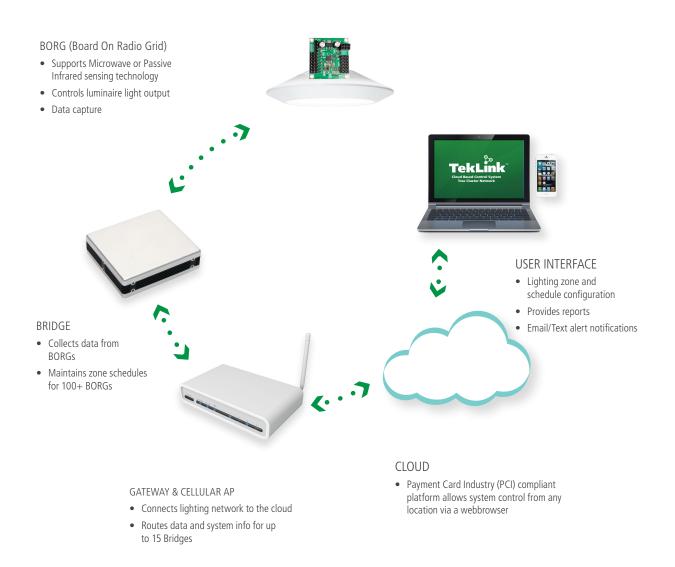




2.0 TekLink TL2000 Series Overview

Kenall's TekLink TL2000 Control System reduces luminaire energy consumption by zonal occupancy detection, daylight harvesting, and light load scheduling. Lighting occupancy zones and schedules are configurable through the cloud via a web browser.

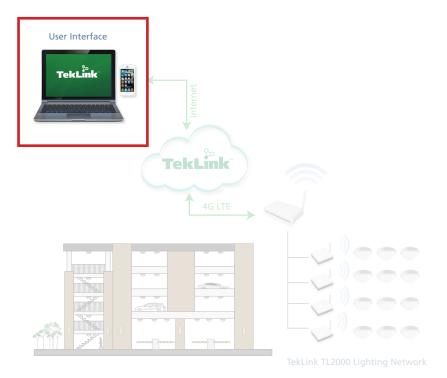
System components:







3.0 System Components



User Interface



Graphical User Interface (GUI)

- Remotely manager your TL2000 series control system(s) through
 common web browsers
- View and optimize lighting zone settings and schedules through a 3D site model
- Set-up email / text alert notifications
- View reports based on an array of system recordings & algorithms:







Occupancy Detection

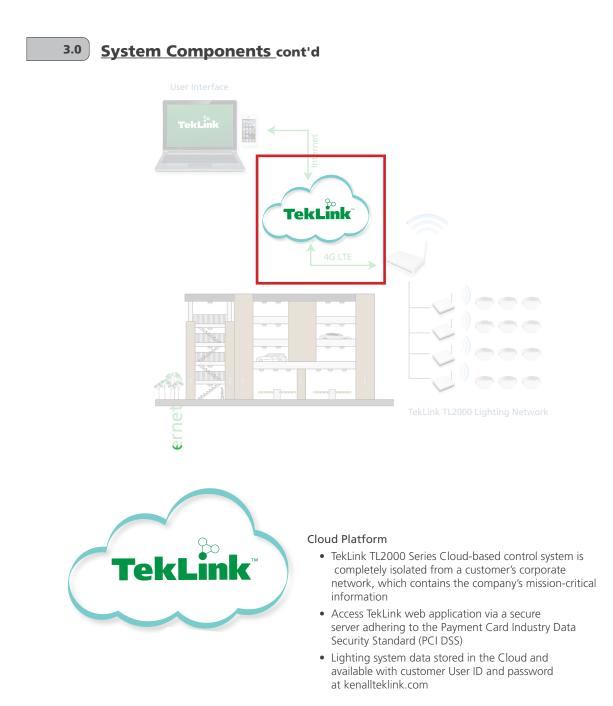
Energy Consumption

Energy Savings



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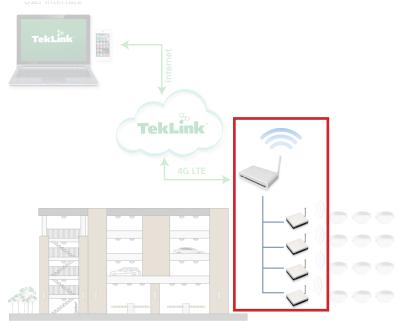




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3.0 System Components cont'd



TekLink TL2000 Lighting Network



Cellular Access Point

- The TekLink TL2000 Series cellular access point consists of a Gateway, Industrial Ethernet Switch, and Cellular Router integrated into an IP65 sealed enclosure
- TekLink is secured using HTTPS with a self-signed certificate for access to the web services
- The Gateway and Industrial Ethernet Switch push data and information between kenallteklink.com and the local lighting control system
- A Gateway can manage information for up to 15 Bridges

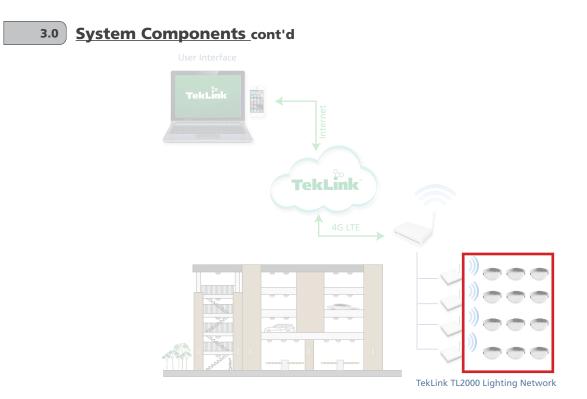


Bridge

- The Bridge passes lighting schedules and zone configuration information from the Gateway to Luminaires containing a BORG (Board on Radio Grid) device
- Uploads data from 100+ BORGs and passes it to the Gateway









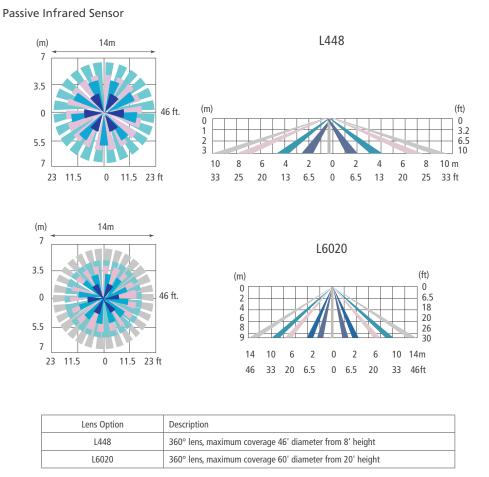
Board on Radio Grid (BORG)

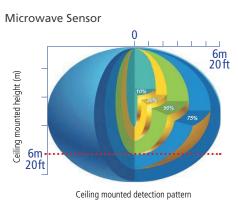
- The BORG is a lighting controller integrated into a LED luminaire and is the centerpiece of the TL2000 system
- BORGs support Microwave and Passive Infrared sensing technologies
- The BORG controls luminaire light output based on a host of configurable parameters such as; occupancy status, ambient daylight, time of day, and/or special events
- Captures and calculates light level, occupancy event, and energy consumption (kW/hr) data





SENSOR COVERAGE AREAS



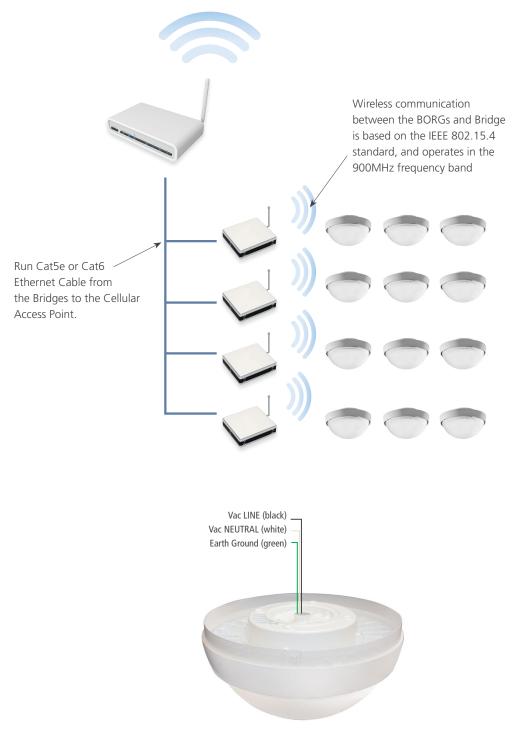


NOTE: Occupancy pattern dimensions are maximums, may vary due to environment





4.0 Wiring Guide



EXAMPLE: TL2000 Device





5.0 TL2000 Wireless System Features

TL2000 Standard Features

Web User Interface

- 3D-graphical display
- Visual zone mapping
- Network mapping
- Site mapping
- Tiered administrative access levels

System Configuration & Scheduling

- Adustable Occupancy Light Levels
- Fixture Zones Configurable
- Fixtures Operate in Multiple Zones
- Day and Night Scheduling
- Site-wide Special Event Scheduling
- Daylight Harvesting
- BACnet/IP Compatible
 - Enables Automated Demand Response

Measured Data

- Individual occupancy event recording
- Signal strength
- Light level

Reports & Notifications

- Energy Consumption Report
- Occupancy Data
- Disabled Fixture Alert
- Network Communication Alert



Kennel

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