

netLiNK™

Wireless Control and Remote Monitoring System



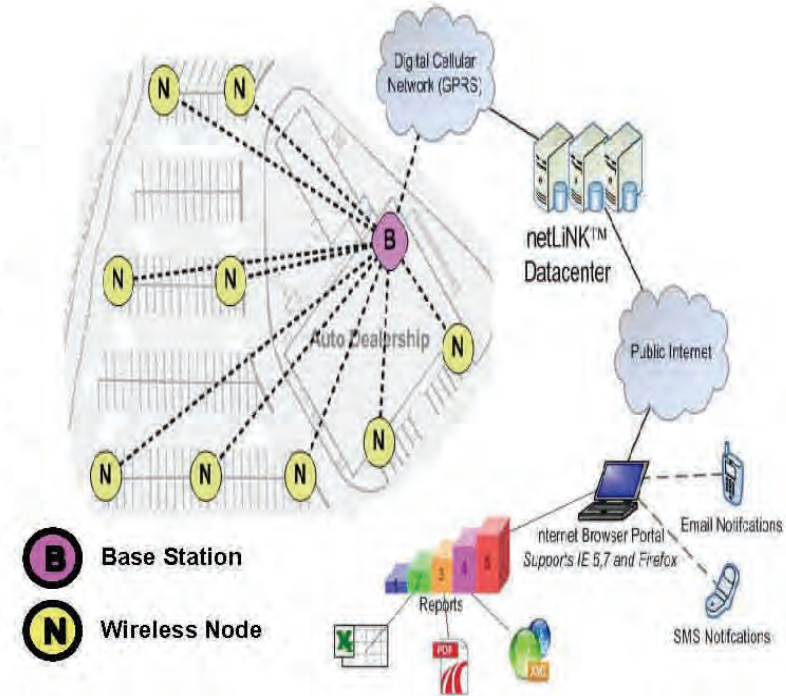


System Overview:

netLiNK™ is our 2-way *Wireless Control and Remote Monitoring System* designed specifically to control site lighting and other site electrical devices via WLS's proprietary *base station* and *wireless node switches*. Property owners/managers can dramatically reduce the electrical consumption by precisely controlling on/off times of individual or groups of lights/devices throughout the property without rewiring the electrical circuits! By scheduling different groups of lights to turn OFF during non customer related hours, owners can easily reduce the site electrical energy by 50% or more.

Consider the Impact!

The netLiNK™ base stations sends/receives central commands via a secure cellular connection to turn ON and OFF the selected lights at different time intervals. The base station then sends/receives information wirelessly to node switches throughout the property via a secure 900 MHz mesh network connection. It is irrelevant where the power is coming from or how many time-clocks, photocells, or lighting contactors exist. With 120-480 VAC constant power at each device location, netLiNK™ can take control of the electrical system without running new circuits! This remarkable system offers 1, 2, 3, and 4 channel wireless node switches i.e., (1 channel per fixture). Our system actually monitors the electrical current of the connected device and sends back an alert when a specific device goes into an "out-of-limits" range. The wireless node switch learns what the "normal" current draw of the particular device should be when everything is working correctly, and sends an "alert" when it wanders "out-of-limits". Therefore, netLiNK™ can accurately determine whether a lamp or a ballast has actually failed, and notify the appropriate parties of the particular failure. *The benefits of netLiNK™ are extraordinary!*



Benefits:

- ✓ Reduce energy consumption
- ✓ Extended lamp and ballast life
- ✓ Manage and reduce maintenance cost
- ✓ Real-time alert notifications of individual lamp or ballast outage
- ✓ Central command for property portfolios
- ✓ Retrofits into existing electrical systems
- ✓ Tenant retention with improved light levels and maintenance
- ✓ CSM provides real-time notification of undesirable events
- ✓ Reduces operating expenses, boosting NOI
- ✓ Typical ROI's less that 20 months.

Features:

- ✓ Secure Internet connection
- ✓ Base station with astronomical time clock scheduling capabilities allowing on/off control centered on time intervals around sunrise or sunset
- ✓ 2-Way communication with base stations to individual nodes
- ✓ 24 x 7 x 365 support via Internet, E-mail, Smart Phone or Fax
- ✓ Individual fixture or multi zone / group control capabilities
- ✓ Base Station & Node photocell override for inclement weather
- ✓ Historical data and energy consumption report
- ✓ Auto rotation of lamp and ballast for even burn time
- ✓ Online as-built site map of lighting system
- ✓ Continuous system monitoring (CSM)

- WLS can assist you with financing options, utility rebates and federal tax deductions qualifications.



REVISIONS

REV #	DATE	BY:

ROI Summary w/ 775 Natural White System & netLiNK™

Current Conditions	
775-Watt Fixtures	145
Cost per kWh	\$0.07
AVG Burn HRS/DAY	12 Hrs
Annual Burn Hours	4,380 Hrs
Est Annual kWh consumption	685,908 kWh
Est Annual Cost	\$84,504.00
Post netLiNK™ Conditions	
Fixtures on All Night	51
Fixtures off @ 10:30pm Til 5:30am	69
Fixtures off @ 12:00am Til 5:30am	25
Est Annual kWh consumption	315,430 kWh
Est Annual Cost	\$22,080.09
Cost / Savings	
775-Watt & netLiNK™ System Cost	\$44,379
Est Annual kWh savings	370,478 kWh
Est Annual Savings	\$31,618
Maintenance Savings	\$10,786
ROI	50%
Payback	24 Months

SYSTEM OVERVIEW:

ALL ON = 15 MINUTED BEFORE DUSK
 ENERGY SCENE A = 10:30 AM - MIDNIGHT
 = 50% SAVINGS

10:30 PM - MIDNIGHT

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LIGHTING LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.
 THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LIGHTING MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.

24 MONTH PAYBACK (50% ROI)



- BASE STATION
- WIRELESS SIGNAL
- NODE
- ELECTRIC PANEL / METER
- ENERGIZED FIXTURE
- NON-ENERGIZED FIXTURE
- MONUMENT SIGN / BUILDING SIGNS



Wireless Control and Remote Monitoring System

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 MCKINNEY, TX

WLS LIGHTING SYSTEMS
 Consider the Impact!



PO BOX 100519 - FORT WORTH, TX 76185 - WWW.WLSLIGHTING.COM

WLS-N6644A DATE - 7/7/09 SCALE: NA BY: J.P. ROBBERY

SHEET 1 OF 1

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SYSTEM OVERVIEW:

ENERGY SCENE B = MIDNIGHT - 5:30 AM
 = 64% SAVINGS
 ALL ON = 5:30 AM - DAWN

MIDNIGHT - 5:30 AM



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