



UNIQUE SAVE-LIGHT SYSTEM

Automated Street Lighting Control and Dimming System

The Save-Light system allows for automated and remote control and dimming of LED street lamps, and real time lamp status reports. Lamp activation and light intensity can be strategically and remotely controlled, to allow for variations based on:

- **Time of night:** Dimmer lights for low activity periods
- **Location:** Brighter lights for junctions, schools, bus stops
- **Weather:** Brighter lights for snow and rain
- **Special events:** Programmable for variations necessary for special events

Energy savings of 25%-30%, combined with reduced maintenance cost, provide a quick ROI, without compromising road safety.

HOW DOES IT WORK?

The Save-Light unit is installed in each lamp, allowing remote monitoring and control of each separate lamp. Units communicate with central concentrator, using Power Line Communication (PLC) over existing power network. The concentrator then communicates information to control center, using GSM, Wifi, Ethernet or optic fiber.

Two-way communication between Save-Light units and control center allow for remote commands to individual lamps and groups of lamps in any combination, and real time reports of lamp status.

Automatic and remotely updatable dimming tables allow for strategic control of which lights to activate, when to activate at them, and at what level of intensity.

Software allows for flexible, automatic scheduling of light activation and intensity, and integration with existing data systems (operational, billing, grid control, etc.). Information made available via internet portal.

Advantages:

- **Remote activation and deactivation:**
 - Allows maintenance and replacement of individual lamps without turning off other lamps on circuit
 - Dim individual lamps, any group of lamps, with a single command from central unit
- **Remote control of light intensity:**
 - Energy saving during quiet night hours
 - Remotely reprogrammable for automatic dimming profile for changing seasons or special events
 - Adjustable dimming levels
- **Remote detection of lamp status:**
 - Identify faulty lamps, ballasts and capacitors
 - No need for expensive “faulty lamps patrol”
 - No dark nights until faulty lamps are located and reported
- **Power Line Communication:**
 - Communicates over existing power lines with no additional investment
- **Check Meter**
 - Concentrator also measures power usage to track energy savings

Features:

- **Installation:** Simple and fast installation, compact size allows for installment inside LED lamp
- **Maintenance:** Remote control units are energized by the power lines, with low power consumption
- **PLC:** Remote disconnection/reconnection and status reports. Units amplify signals transmitted by other units farther down the line, eliminating distance limitations. Concentrator controls up to 250 lamps connected to the same energizing three phase line.
- **Dimming does not require disconnection.**

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