

Public Lighting & Signage Control

Remote control of public lighting is a commonly used application of Cyclo Systems technology. Street lighting, public building illumination, road signage, dockside floodlighting, even public festivity lighting are all examples currently in use. In addition to discrete receiver units receivers which are designed to be direct replacements for existing photocells are possible providing higher reliability and overall cost benefits. Features like lamp dimming and limited status reporting are possible. The systems can be connected at either Medium Voltage (11kV) or Low Voltage (415V) or both.



- Centralised control using the existing power network.
- Environmentally friendly, reducing wastage and improving efficiency and safety.
- Simple installation and operation.
- Very low cost of ownership and ongoing costs.
- Easily configurable for precise switch on or switch off times. All conditions and seasons accommodated. External input command possible e.g. light or weather sensor.
- High reliability, overcomes problems with photocells and clocks.
- All lights instantly switched on or off with single command.
- Easily applied to any lighting control required e.g. public celebration lighting.
- Control signals do not interfere with any other equipment on the network.
- Provides reliable continuous lighting



Cyclo Systems International
Energy Management Systems

Improvements offered by centralised control of public lighting include:

1. A simultaneous and more even distribution of light around switching times.
2. An override switch-on facility at times of low ambient light levels.
3. Selective switching at important road intersections.
4. Selective lamp switch off to reduce energy costs.
5. Incremental switching/dimming of multiple lamps saving costs and reducing light pollution.
6. Lamp failure checks during daylight hours, reducing night time labour costs.
7. Overcomes problems with false triggering of photocells from ambient or reflected light, and harsh environmental conditions.
8. Security, one command will switch all or selected groups of lamps off or all on at once.
9. Flexible grouping of lamps into switch groups.
10. Suitable for harsh environmental conditions.



Customers using Public Lighting Control:

London Electricity / Corporation of London
Street lighting, road signage & public building illumination, in Central London

Jersey Electricity Company Limited
Street lighting, festivity lighting.

Guernsey Electricity Limited
Street lighting, festivity lighting, sign illumination.

ENECO Rotterdam & ENECO Weert Holland
Street lighting, sign illumination.

Portsmouth Harbour Authority
Dockside flood lighting

Haven Van Vlissingen, Holland Port Authority
Dockside flood lighting



Lamp status reporting system

We believe the essence of successful lamp status reporting is to balance cost of implementation with data usefulness. Large amounts of reporting data invariably adds to bandwidth requirements, cost and complexity. A simpler system, combining outbound CycloControl technology and fault alert / status using a unique narrow band low power radio can justify such a system.

Small units designed to fit into the lamp standard or cabinet have been developed with

inbuilt status detection and radio transmitter, the Cyclo receiver responds as normal to all switching instructions. Various levels of status/fault reporting are possible, ranging from lamp fail, over current alert or energy consumption data. A future development of a photocell replacement receiver will consist of a direct 'plug in' replacement unit providing direct control and status reporting.

The narrow band radio technology provides a low cost, long range system. Overcoming

signal to noise resolution problems with a sophisticated base station employing digital signal processing (DSP) techniques.

Data retrieved by the base stations can be relayed back to a central point by GSM / GPRS or other common interfaces, easily integrating into network management databases. The system can be implemented selectively in areas where there is a particular requirement or across a wider area.



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