



SAVES POWER



SAVES MANPOWER

# TWIN BENEFITS - SAVES POWER AND MANPOWER

## Electronic Street Light Controller

Beneficiary Speak: “We have noticed monthly savings of Rs. 2,500.00 (in INR) from the Installation of Electronic Street Light Controller. From the above installed equipment we are not only saving power but also manpower and it is safe equipment.”



### Electronic Street Light Controller

- TROUBLE FREE LONG LIFE
- LONG LOAD LIFE
- POWER FACTOR CORRECTION (Optional)
- POWER SAVING

#### Energy Saving Electronic Street Light Controller

Shortly known as E-SLC is one among our state-of-the-art Energy conservation product. It is the most efficient solution to our street light controlling requirements as it not only efficiently manages ON/OFF operations of street lights but can reduce power consumption by 25-30% through a host of salient methods.

#### Why SLC?

In the current situation of ever demanding power consumption increase, power conservation should stand as a primary focus as

- Every unit saved is every unit produced
- Additional power generation can increase global warming threats.

#### Benefits

- **TROUBLE FREE LONG LIFE** – As the SLC operates through electronic contact less switches, it can be trusted to work at dusty and sooth filled environment with zero troubles. Further, the product has conformal coating to insulate against dust and sooth.

- **LONG LOAD LIFE** – The controller can handle input voltage range between 170V to 290V, while maintaining a constant output voltage. As a result it can increase the life span of the Lamps.

#### Testimony of Incorporation

These photographs are of installation, Field Seegehalli, Krishna Raja Puram, Bangalore East – 560 049.

#### Features

- A 10kW SLC can handle a load of 30 to 35 numbers of 250W lamps. This means it can handle more than 50 to 58 numbers of 150W lamps (which is generally used in street lights).
- SLC makes use of a Real Time clock (RTC) through Astronomical Timer to do the switching automatically. Also light sensories provided to manage Low light conditions in Day time. It can also further manually switched ON/OFF during routine maintenance checking of lamps.
- The Astronomical Clock in the u-controller is programmed for 10 Years.
- The product comes with a weather proof pole mountable enclosure.
- A SLC of 10kW Capacity has a 1-pole 63 Amps class 'C' miniature Circuit breaker and acts as a preventive damage controller.
- Overvoltage, under voltage protection provided, which is not possible in contact based switching.



- A SLC of 10kW Capacity makes use of 95A, 1600PIV Thyristor- Thyristor module with RC snubbers mounted on an anodized heat sink.
- We have standardized 3 ratings i.e. 3kW, 5kW & 10 kW But we can customise the rating based on the Device (Thyristor- Thyristor Modules used for switching instead of contactor) ratings available with SEMIKRON / IXYS.
- Control Circuit: 16 Bit micro-controller based control card with Real Time Clock (RTC) and with Battery backup.
- After interacting with few customers and also from our observation, energy consumption of 15% to 20% can be saved per unit.

## CENTRALIZED CONTROL & MONITORING SYSTEM :-

CCMS ( Centralized Control and Monitoring system) : It is a GSM / GPRS / RF based product, designed specifically for Street Lighting Projects to ensure optimal on-field product performance including remote and automated control capabilities. This product is a must have tool for Smart Cities. The use of CCMS is intended to control and monitor various performance parameters of led street lights.

The main functions of the CCMS are :

- To inform the operator of the status of the electrical installation.
- To enable the operator to control state of the installation
- To reconfigure and maintain, by automatic controls, the electrical installation, to detect and network faults.
- It gives the estimated billing for ESCRO contractors / Generates monthly invoices

## LOAD HANDLING :-

POWER RATING	SVL (250W)	TUBELIGHT (40W)	CFL (35W)	LED (65W)	LED (35W)
3 KW	8 Poles	53 Poles	70 Poles	45 Poles	80 Poles
5 KW	14 Poles	90 Poles	125 Poles	70 Poles	130 Poles
10 KW	27 Poles	175 Poles	245 Poles	143 Poles	265 Poles

## Certificates from Govt. Authorities

