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Intelligent street light controller: SLC - 03

We are introducing our selves as manufacture of **Insu** brand various types of timers, controllers and custom oriented equipment since 1980.



Insu Intelligent street light controller specially designed for **energy Saving** in conventional street light systems. By using this controller you can save up to 33% energy by staggering the unwanted lights by midnight (Considering 50 % staggering time). Day light power saving scheme can also save some more energy. Apart from energy saving this can also save manpower, operating cost and can reduce manual-operating errors. This controller is programmed on longitude & latitude base for the whole year for sunrise and sunset timings. **Sunrise and sunset time changes on day to day basis and in one month there is a time change of about 30 minutes. For entire year sunrise and sunset time changes by about 190 minutes.** With these much change of time a conventional timer will not serve the purpose. It can save energy up to **8 %** against

conventional manual operation, Photo sensors or conventional timers. Our controller incorporates a real time clock with in built battery backup for minimum 8 years. There is no need to reprogram the controller even if supply fails for long duration.

Specifications

- Advance Microcontroller based design and real-time clock base controller with battery life of 8 years for real-time clock. (As per Manufacturer can be last for 10 years)
- Data protection of user parameter by specially RAM which hold the data for more then 10 years with out any power
- Month wise civil twilight timings (Day light power saving) which helps precise ON / OFF time in all weathers (Advantage of Sunlight before sunrise and Sunlight after sunset).
- Password Protection. (As the systems installed at remote location and in open conditions any body can fingered which create problem for street lighting operation)
- Scrolling display of events which helps to monitoring the systems.

- Very easy key board operation.
- Auto / Manual facility by way of relay operation for faster service mode.
- User settable On Delay up to 99 minutes between two lines.(Between R Y and Y B) It can be used for multiple circuit with using time delay between for restricting inderence current.
- Settable Individual lines Staggering facility to switch OFF and switch ON lights by late night can save energy when there is no traffics. (Can switch off one phase at 10 P.M. and another phase at 1A.M)
- Eight Date range programming facility to disable staggering mode for festival and special occasion.
- Power redundancy for controller even 1 phase 170 Vac controller can work.
- Manual stagger off facility for special requirement.
- Controller operates 365 days on real-time based clock with preprogrammed parameter for sunrise and sunset times or **user settable 365 days programming and date wise staggering facility with micro setter programming software (Optional).**
- Hand held terminal with **Micro setter** software fir streetlight time management to modify data and parameters with feed back of parameter updating in particular unit **(Optional).**

Technical Specification

Supply	: 3 Phase 440 V AC + 10 % to – 25 %, R Y B N 4 Wire supply Systems. 50 Hz (+ / - 10 %)
Power Consumption	: 2 W (Stand by) 5 W (on full load)
Controller	: 8 Bit micro controller
Programming function	: Switching on Longitude & Latitude base
Real Time Clock	: Inbuilt battery, with battery life of more then 8 years
Parameter data protection	: With special device which hold the data for more then 10 years without any power and Password protected.
Display	: 16 character and two lines LCD display with backlight.
Contacts	: 3 Potential free contacts for normal and staggering
Redundancy	: Operates up to single phase 170 V Ac
By pass	: Provision to by pass by way of Auto / manual switch
Operating Temperature	: 2 to 55' centigrade and humidity 90 % non-condensing
Installation	: Indoor type can be installed in existing pole Box.
Dimension	: 310 X 190 X 100 mm Approx.
Weight	: 5 Kg
Material of construction	: M S industrial powder coated.

Energy Conserved is Energy Produced