EPARKIS STREETSMART (SMART STREETLIGHTS):

A SMART, ENERGY SAVING Street-lighting System, with Astronomical Timer, Energy Metering, Fault Response Alarm with Centralized Supervisory Control and Reporting.

Optional: Security Camera System, with Night Vision, Motion Detection and Monitoring.

After many years of successful operation of its flagship product, the STREETHAWK, Saur Eparkis Pvt Ltd. (formally Synergic Systems) now introduces the STREETSMART.

STREETSMART is everything, that the STREETHAWK can deliver, and much, much more…

STREETSMART is a total Centralized Street-lighting control system with numerous features, including RF and GPRS communication.

STREETSMART is supplied with intelligent, power-saving LED lighting in 48W, 72W and 90W capacity. Higher Wattage can be supplied on request.

Each LED light is driven and controlled by SMARTHAWK, our proprietary, intelligent switching system.

SMARTHAWK switching system comes with built-in Astronomical Timer that can switch ON or OFF the light individually based on sunrise and sunset timings, or through a reconfigurable look-up table (LUT), in an alternate mode.Streetlight ON / OFF timing accuracy is maintained within 60 seconds from pre-set time under the entire range of environment conditions.

SMARTHAWK intelligent control also provides a Dimming feature that can be used to further save power, by dimming the light when full lighting is not essential. The dimming times can be configured using another Look-Up-Table (LUT).

During dimming, a built-in motion detector can be activated to turn-on the luminescence in case motion is detected. Various algorithms are provided for controlling luminescence upon motion detection.

SMARTHAWK can measure and log total electricity consumption using built-in metering support hardware and software.

Green Technology

SAUR EPARKIS PVT. LTD

Address: 7/24, UPSIDC Site-II Industrial Area, Loni Road, Sahibabad, Ghaziabad - 201007, UP.
Contact: 9350941090, 9910035374
Email: info@saureparkis.com Web: www.saureparkis.com

Along with metering, input AC is continuously monitored to protect the lamps from over-voltage, under-voltage, and overcurrent conditions.

In case the lamp is not lit for any reason, an alarm condition is generated & maintenance personnel notified.

All the above conditions like Alerts, Power consumption, Voltages and Current levels can be logged over a period of time locally, as well as transmitted to a central server on demand for monitoring purposes.

SMARTHAWKs are also provided with Radio Frequency transmission and receiving capability and can communicate with other SMARTHAWKS within its radio range thereby forming a network.

For every 100 to 250 SMARTHAWK device one GPRS enabled gateway device is installed. These GPRS Gateways communicate to a central server which can control the entire network.

STREETSMART can reduce energy consumption to within a specified limit for a given period by adjusting the on/off period of a string of streetlights as per predesigned program. This can help in effectively managing scheduled load-shedding when required.

In addition, STREETSMART can generate alerts over a GSM network to designated phones for any emergency situation such as Lamp Failure, Faults, Over/Under Voltage, Short Circuit, Power Theft etc.

STREETSMART can switch to manual override mode and permit individual control of each lamp, or cluster of lamps, or group, area-wise or as a string of lamps. Even the entire lamp system can be turned off at once in case of an emergency situation, (such as war).

In case of a network failure, the system will continue to function, since each lamp is independently controlled through SMARTHAWK intelligent controller.

A user-friendly software, called SMARTBOY, is provided on the Central Computer that enables easy interface with a human operator who can easily observe current situations and trends. Dashboard features provided in the software allows the operator to easily change configurations, and parameters.

SMARTBOY automatically sends performance reports periodically by email to designated officials for monitoring and management. Reports can also be generated on demand.

OPTIONAL SECURITY CAMERA:

STREETSMART systems can be optionally provided with a security camera at every pole and every GPRS node for security and monitoring purpose. This is exceptionally advantageous since streetlights are usually operational at nights when crimes, especially crimes against women can occur.

Coupled with motion detection, this optional system can provide enhanced security at tourist destinations and crime-prone metro cities and can be a boon to law-enforcement authorities.

Technical Specifications of Smart Lights

S.No.	Parameter	Values			
Introduction: SMARTLIGHTS is an intelligent streetlight control system that can be used to network, control and drive several street light units through a central server. SMARTLIGHTS has built in features such as Astronomical Timer, Energy Measurement, Under/Overvoltage and Overcurrent protection and Alarm condition generation. Each light has built in networking support that communicates to a central server that can control each lamp with dimming, independently and log the performance of all or a cluster of streetlights. Optional GPS can be used to pinpoint position of each lamp. I/O ports are provided to remotely configure and control auxiliary devices.					
1	Capacity	48 Watts	72 Watts	90 Watts	120 Watts
2	Input Power	1∅/230V ± 10%/ 50Hz			
3	LED LAMP Power Ratings	2Watt with secondary optics			
4	LED Lamp Luminous Flux	>140 Lumens / Watt			
5	Colour Temperature	2700 K - 6500 K (white)			
9	Colour Rendering Index (CRI)	>90			
10	Power Factor	>0.9			
11	Ingress Protection In IP	IP65			
12	Astronomical Timer	Yes			
13	Manually Settable Timer	Yes			
14	Manual On / OFF	Yes			
15	Motion Detection and Communication	Yes			
16	Auto Dimming Feature	Yes			
17	Nos. of Lights	25 Nos.	75 Nos.	100 Nos.	
18	Additional I/O Ports	4 Nos.			
19	Intermediate ON-OFF	Yes			
20	Measurement of Voltage (V), Current (I), Energy(kWh)	Yes			
21	GPRS Gateway Communication	Yes			
22	RF Networking	Yes			
23	GPS	Optional			
24	Centralised Control	Yes			
25	ON / OFF Timing Accuracy.	60 Sec			
26	Over Voltage Protection	260±5V			
27	Under Voltage Protection	160±5V			
28	Over Load Protection	Yes			
29	Short Circuit Protection	Yes			
30	System Failure Alert	Yes			
31	Guarantee 2 Years + AMC 3 Years	5 Years			