



FF-AUTOMATION



## >>FF-Automation News: Week 13 / 2010

### **AutoLog® SaveLight - Streetlight Monitoring & Control**

AutoLog SaveLight gives substantial energy savings (up to 35%) by optimising burning times and dimming at off-peak traffic hours. It gives also substantial maintenance cost savings by detecting burned lamps.

SaveLight gives web based, multi featured interface for managing street lights. Users have centralized and shared information about Street lights. Burning hours, energy consumptions, broken lights etc. can be turned into graphical reports.

System can be expanded almost unlimitedly from 1 street light control center to city wide systems controlling over half million street lights!

There's no need for expensive replacements of light bulbs, SaveLight can control existing, already installed gas discharge lamps like high pressure sodium lamp, mercury lamp, halogen lamp and leds etc.

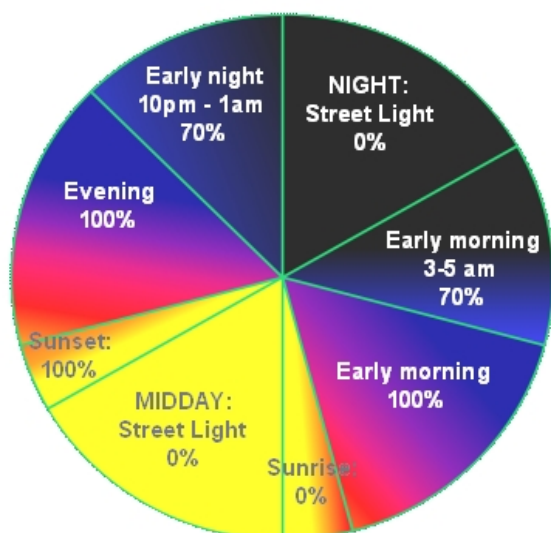
#### **BENEFITS:**

- short payback time
- low investment costs
- centralized and shared control and knowledge
- street light control centers can locate anywhere within gsm network
- expandable from 100 to 500 000+ street lights
- lower CO2 emissions



### SUBSTANTIAL SAVINGS:

- SaveLight gives substantial energy savings (up to 35%) by optimising burning times and dimming at off-peak traffic hours
- It gives substantial maintenance cost savings by detecting burned lamps.
- It allows remote street lights control so lights can be easily controlled ON/OFF on special situations.



- The street lights are now dimmed to 50-70% power at early night and early morning.
- Some of the light are kept off over the deepest night.
- Total saving in electricity costs are about 30% with the defined parameters.
- More controllable maintenance. Maintenance cost savings and better lighting quality.



### EARTH FRIENDLY

- Lowered energy consumption leads also to lowered CO2 emissions.
- Every saved kWh reduces CO2 emission by about 400g!

## Beneficial investment:

### Payback time of the street light control and monitor system investment

Number of street light control units	1000 pcs
Number of street lights / control unit	240 pcs
Total number of street lights	240000 pcs
Average annual usage hours	3832,5 h/year
Number of days, when the street lights are used	365 d/year
Average power of street lights	150 W
Price of the electricity	0,07€/kWh

**Total annual electricity costs** **9 964 900 €**

Distribution of different groupwise energy saving modes that are used at deep nights:

Dimming by lowering supply voltage	50 %
Every street light are to be swithed off	10 %
Street lights are to be kept swithed on all the time	20 %
Supply power is to be kept lowered for	6h/night
Every street light are to be swithed off for	4h/night
Energy <u>saving kWh/year</u>	<b><u>21 900 000 kWh</u></b>
<u>CO2 saving ton/year</u>	<b><u>8 800 CO2, ton.</u></b>

Total annual savings after ControlMan service costs.

Annual savings of maintenance costs achieved by automatic fault indications and more efective maintenance operations **1 850 000 €**

Total investment costs control and monitoring system with dimming facilities **2 950 000 €**

**Payback period of the investment** **1,9 years**

**Total return of the investment in ten years** **12 400 000 €**

[Click here for more information!](#)



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