

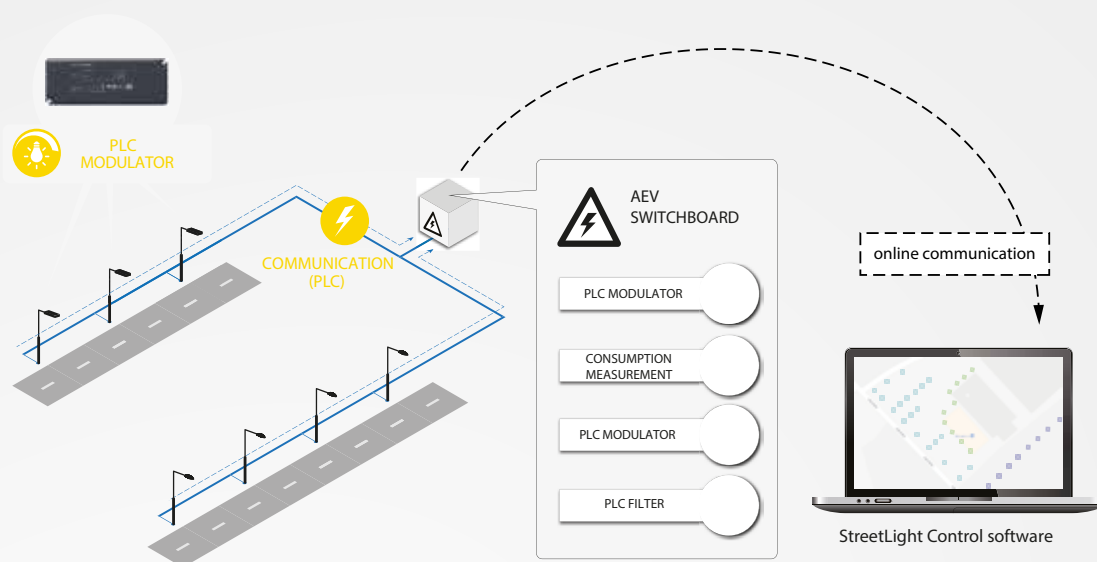


# STREET LIGHTING

AEV spol. s r.o. KROMĚŘÍŽ  
ELECTRONIC DEVICES FOR AIRPLANES AND CARS

## STREET LIGHTING

Intelligent control via PLC communication which is made through electricity distribution when the modem is connected to the distribution network by it's input. Then the output is controlled by connected source of lights LED module.



### LAMP CONTROL

The system can be controlled via PLC, communication is directly with the lamp. Because of using of the PLC system can be more lamps (which support control via DALI) connected to the control system. The Cloud solution allows you to control and monitor every light point in the city including detailed feedback, automatic error reporting and online setting of light point.



### COMMUNICATION VIA PLC MODULE

Communication is made via the Power Line Communication protocol. The system includes advanced mechanism for data repetition to increase the functional territory and work regardless to the wide of the lighting infrastructure.



### SWITCHBOARD

One router in the switchboard allows to connect individual branches of the distribution to the system through the modulator. It is not necessary to have a separate router for each branch of the distribution. The router also collects all information about the status and the setting of the lamp and brings it back to the control center. The router ensures all functionality even in the event of a power failure.



### ONLINE COMMUNICATION

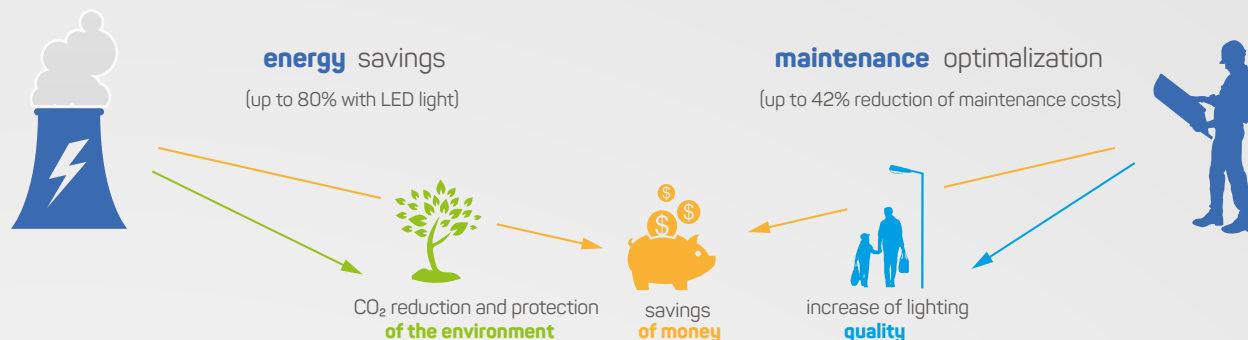
Connection via routers and central software is made by a communication based on IP protocol, Ethernet or HSUPA / GPRS. Connection via VPN is used to provide the connection so it can be also used as load balancing systems to ensure their security and continuity.



### THE USER INTERFACE

The user interface allows a complete remote control of public lighting. Multilevel access ensures individual rights for every user.

# ADVANTAGES OF LIGHTING



## A CLEANER ENVIRONMENT

By reducing of energy consumption, we can influence the amount of CO<sub>2</sub> released, which reduces the negative impact on the environment while meeting high demands of environmental standards. A professional installation guarantees a reduction of the amount of light pollution that affects migrating birds and wild animals.



## REMOTE CONTROL

Using of LED technology immediately reduces energy costs. The combination with the management, control and diagnostic system will increase this saving even more. Energy costs are reduced by using of intelligent on / off, targeted progressive dimming and effective energy management. Based on the reports generated by the management system, we reduce operating costs because of the possibility of planning maintenance operations.



## INCREASE THE QUALITY OF THE LIGHTING SERVICE

Implementation of a street lighting system reduces the risk of accidents caused by lighting failures. The most of lighting problems are detected and solved before citizens even have the opportunity to notice them. Improving of the life quality in cities. Increased safety, especially at risk areas (crosswalks, crossroads, blind places).

# SYSTEM ELEMENTS



## LAMP

- High variability of light output
- Our own design (power supply, PLC...)
- Top components used: Osram + LEDiL
- Smart control option (PLC or SSDM)
- Made in Czech Republic



## PLC MODULATOR

- High efficiency and reliability
- Power line communication
- Scalability
- Stable company service and online support
- Made in Czech Republic



## ROUTER

- Completely developed in AEV spol. s r.o.
- High security
- Possibility of connection other systems
- Stable company service and online support
- Made in Czech Republic

