

RUT230 in Public Lighting

[Main Page](#) > [RUT Routers](#) > [RUT230](#) > [RUT230 Usage Scenarios](#) > [RUT230 Success Stories](#) > **RUT230 in Public Lighting**

The project is the control and supervision of public lighting. The scope of the project is 280 cabinets equipped with PLC, electrical network analyser, contactors, UPSs, fuses with auxiliary contacts etc., controlled by a SCADA application from the head office.



Contents

- [1 Summary](#)
- [2 Customer profile](#)
- [3 Challenge](#)
- [4 Solution & Benefits](#)
- [5 Attachments](#)
- [6 External links](#)

Summary

RUT230 units used in automated city lighting project.

Customer profile

NS Koncept is a Serbian company that deals in automation of industrial and thermal processes. They constantly monitor the latest trends and technology, so they can offer customers high quality service, while preserving the environment.

Challenge

On the field, the PLC calculates the time for turning lights ON or OFF (sunset and sunrise) based on GPS coordinates and a real-time clock. In the head office there is a server with SCADA software which collects data, alarms, makes SMS alarm reporting and other tasks. Each cabinet can be controlled from SCADA, so the challenge is finding a way to communicate between the SCADA application and the PLCs.

Solution & Benefits

The best solution is to use RUT230 routers as gateways between SCADA and the PLCs, making effective use of the Modbus TCP protocol for control and an L2TP VPN tunnel for remote access.

Some of the cabinets are located in poor signal condition areas. Since RUT230 are compatible with many external antennas, the client easily solves the issue by attaching antennas with longer cables and placing them at better positions. Furthermore, the communication does not generate that much network traffic, which eliminates the need for 4G and provides the possibility to reduce costs by using a 3G router.

Attachments

Topology and setup



Monitoring software



External links

- [NS Koncept homepage](#)
- [RUT230 homepage](#)