



Cree Smart City programme

Tailored Control solutions through the best performing Cree LED Streetlights

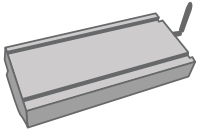
LED.Licht.Lösungen

Brenner GmbH

1230 Wien/AUT · Isoppgasse 22
T 0664 4554 227 · F (01) 3180 567

CREE 

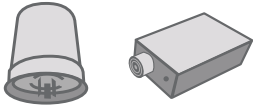
CONCENTRATOR



A high-tech device fitted on the street lighting electrical control panel. It sends data to the cloud, where they are accessible from the control centre or from any mobile device.

- Sistema Linux system
- Broadband PLC communication with the fixtures
- Cloud connection through 3G/GPRS and Ethernet
- Three-phase and single-phase energy measurement

NODE



A device which, when fitted on each of the lights, can be used both to manage the lighting itself and to control devices linked to these Nodes through wireless (or similar) systems. The Nodes are connected to the concentrator at the end of the row of lights through the electricity grid itself. That communicates by WiFi, PLC, GPRS or 3G, etc. with the control centre (server) where the user can configure and supervise the entire system. Nodes are available in both Nema socket option and Remote ones.

1-10V control	PS FD
RTC	GPS
I2C	Consumption measurement
Ethernet	

SOFTWARE



A CMS (Central Management Software) that can be accessed through the cloud or installed on customers' proprietary servers, enabling energy service companies and council technicians to intelligently manage the infrastructure in real-time from any location.

- Real-time alert management and alert history
- Street furniture inventory
- GIS geolocation with maps
- Unlimited licenses and different user permission levels



BENEFITS



Video surveillance via IVA
Intelligent Video Analysis



Management of ground parking
& Multi-storey Car Park



Traffic control and Access &
Support to the Traffic management



Monitoring of Public Transport
Monitoring of other vehicle fleets



Connectivity Services
Broadband Connection and Optic Fiber



City Bike
Car Sharing



Environmental control, Quality of the air
and weather alert



Implementation and Management of
Electric Vehicle Charging Network



Integration with GAS and WATER
network for Remote Reading



Implementation
Customisation

Panel Remote control

- Reports on operations and / or malfunctions by monitoring real-time consumption
- Reading of GSE consumption (White Certificates)
- Able to manage each circuit independently
- Switching ON/OFF upon delay / anticipation compared to custom sunrise / sunset of Astronomical Clock
- Able to report door opening, differential release, monitor and control remotely other contacts through actuator RS485
- Different cargo management through auxiliary relay ex.: fountains, area access bollards in LTZ, etc ...

Point by point remote control external IP Node

- Comprehensive and independent remote control of each luminaire
- Wide availability of bandwidth on the light point for SMART CITY services

Point by point remote control Nema Socket Node

- Comprehensive and independent remote control of each luminaire
- Wide availability of bandwidth on the light point for SMART CITY services

