Sistema de Luminarias

Tecnológica - Verde - Eficiente

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¿En qué consiste el Sistema de Luminarias?

•Consiste en un control inteligente de iluminación y de ahorro (Pack de iluminación verde) logra un ahorro de energía impresionante

•Se calcula desde un ahorro de energía impresionante desde un 50% a 80% a un costo muy bajo.

•Cuenta con un sistema de seguimiento inteligente y de fácil mantenimiento.

¿De qué se compone el Sistema?

•Sistema unitario de control de luminarias

•Sistema de control de voltaje

•Lámpara fluorescente en espiral de ahorro de energía.

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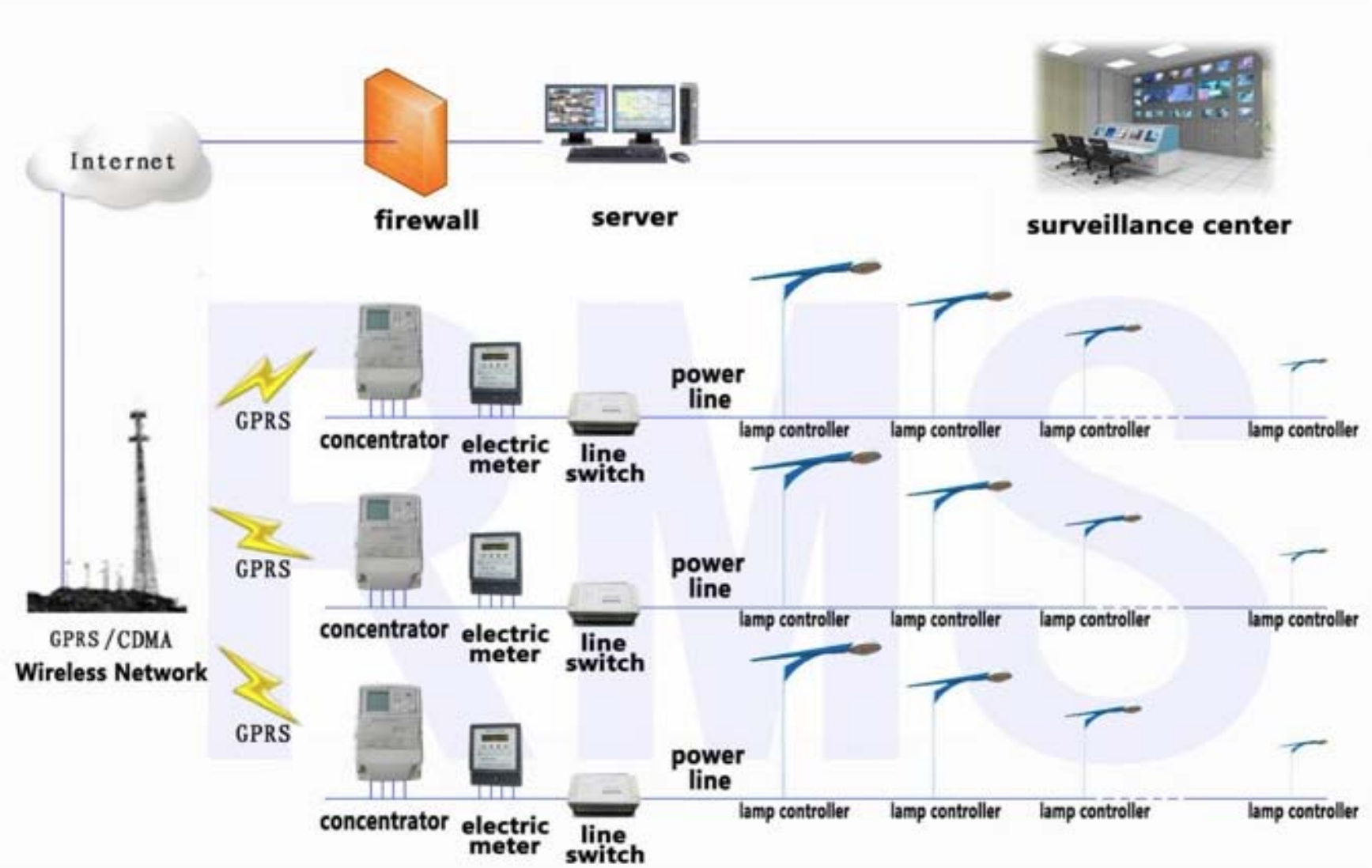
ESQUEMA DE CONTROL DEL SISTEMA DE LUMINARIAS:



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El Sistema se encuentra compuesto por los siguientes Hardwares

Concentrator

- Data collection for single lamp.
- Monitor and control for line system, data management and saving.
- Self maintenance,
- Reporting and recording, parameter setting and referring are accessible.

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Line Switch

With the management of concentrators, through power line carrier communication,

- Line switch can control the make-and-break of lighting electric power line.
- Detect the functional mode of contacts automatically.

The followings are the functions of the line switch:

- Communication.
- Detection for internal relay and AC contactor.
- Timing
- Malfunction indication.

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Single Lamp Control Module

With the management of concentrators, through power line carrier communication, the operation condition of single lamp can be controlled directly by single lamp control module.

The followings are the functions of the module:

• Relay control.

• Condition automatic report (alarm, etc.).

• Detection (for voltage, electric current, included angle of two currents and voltage).

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Digital Non-contact Automatic Voltage Regulator

- Intelligent control.
- Non-contact.
- Quick response speed (＜0.048S).
- It can purify the grid and improve power factor.
- The fluctuation of the output voltage is less than±1%.
- It guarantees the stability and reliability of all equipments with good performances.

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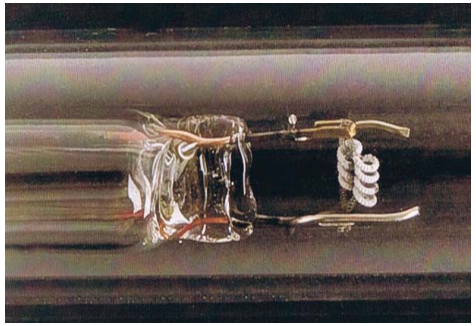
High-power spiral fluorescent energy saving lamp

High temperature performance

with stable high luminous flux output under high temperature 80~125℃.



Lamp filament uses B& T type structure

application luminous efficiency>75Lm/W.

Long life span

High energy efficiency

output power/ input power is more than 90%

Render index Ra>82

the light color is similar to sunlight.
Color temperature range: 2400K~7500K

High lumen maintenance rate

as much as 92% in 2000 hours

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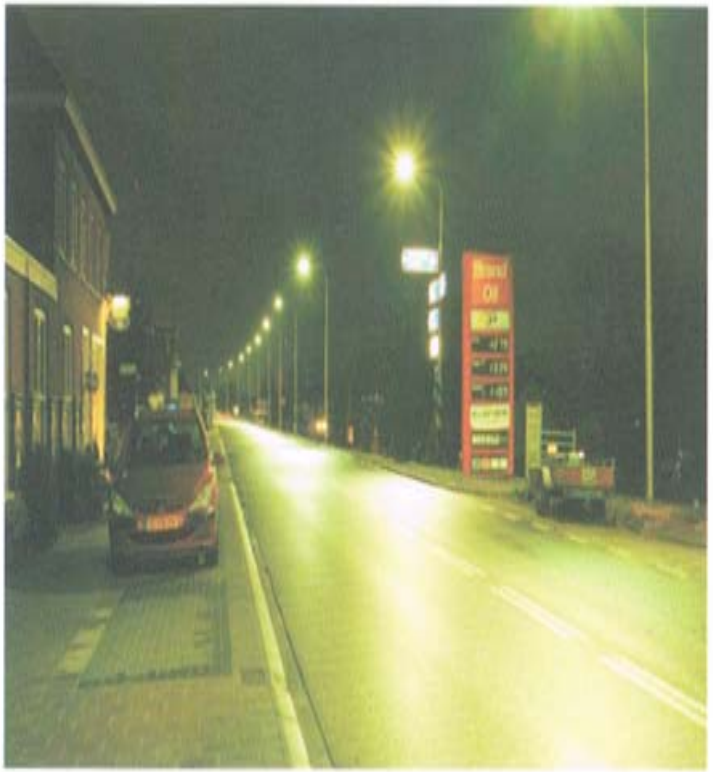
Comparación

High-power spiral fluorescent energy saving lamp 75W



High Pressure Sodium lamps 150w

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Characteristics and functions

Intellectualization of lighting system and single lamp control.

street lamps instant control, control in different period, light control,
line switch control and street lamp group control

Emergency alarm (with sound, light & SMS)

lamps malfunction (flickering, excess temperature of light bulb) line malfunction (line stolen and localization, switch malfunction, etc) low lighting rate, opening gate of distribution box and some abnormal cases

Quick and accurate malfunction location

Comprehensive lamps and line operation information

gather and analyze statistics of lamps and power lines. Daily, monthly and annual operation data of power consumption, electric current, voltage, power and power factor

Electric power saving (from 30% to 50%)

Fluorescent lamps 75w could take place of 150w high pressure sodium lamps, which save 50% energy. with a combination of alternate lighting control, it could save another 25%-30%. But in order to make sure all potential projects abroad successful and safely, still it is be good principle for us to raise up the concept of 30% to 50% energy saving, instead of 50%-80%)

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Advantage of our system

- Immediate energy saving from 30% - 50% (for sure).

- A very low cost comparing with LED energy saving system.

- A total revolution on lighting management in high efficiency

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FINAL

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