Features of the AXIS Remote Management System

The Axis Remote Management System allows a technical, efficient and integrated management in indoor installations, through remote and centralized monitoring and control in real time.

Monitoring the installation's operating status allows us to take immediate action in the event of anomalies.

Benefits for your building

- Energy savings
- Maintenance cost reduction
- Building remote management
- Wireless platform for Smart Buildings
- Efficient and sustainable management
- Unique and intuitive front end interface

Smart Buildings

Main applications

Industrial spaces
Warehouses
Trading
Offices

Public spaces
Schools
Museums
City Hall

Sports spaces
Pavilions
Gymnasiums

Circulation spaces
Passageway
Courtyard
Terrace
Balcony

by Globaltronic
spreading technology

Functionalities

The System provides an API that allows the integration of data from third-party management platforms. It consists on the gateway, communication aggregator, and the individual lighting control units.

Key features

Lighting management
Allows a lighting management, being compatible with LED lighting, sodium vapor and solar energy.

Energy monitoring and measurement
Axis provides automatic analysis and evaluation of infrastructure data.

Lighting and energy reports
Allows the generation of alarm reports, thus allowing updated information to the user. They can be exported in PDF format.

Real-time data
Allows real-time monitoring, measuring the consumption, the voltage, the accumulated power consumed, the percentage of dimming, the value of luminosity and the temperature of the system.

Temperature monitoring
Allows the monitoring of the ambient temperature.

Emergency service
Allows access to the emergency service. Whenever this service is active, the lighting belonging to the area / customer will be 100% until the opposite order exists, thus resuming its normal operation.

Map-Based Visualization
Allows the implementation of the building blueprint and the location of the luminaires, also the implementation of the exterior blueprint surrounding the building.

Macros
Allows the reading of analog and digital inputs, thus promoting actions either for lighting, to send information via email and/or to activate relay outputs.

Other features

- Allows power regulation in steps of 1%.
- Allows requesting the status of each luminaire, through a telemetry request.
- Allows to operate with 3 communication protocols: DALI / 0-10V / PWM.
- Possibility of connecting PIR motion sensors.
- Allows the programming of the PIR operation time via radio.
- Allows setting the brightness setpoint to turn the luminaire on and off.
- Allows the configuration of 5 time profiles to maximize savings and adjust lighting.
- Allows to ramp the dimming whenever the PIR time ends.
- Allows to ramp in the passage between the various time profiles.
- Allows configuration by luminaire and/or group of luminaires.
- Allows integration into the existing electrical installation without having to change/modify it.
- Allows the implementation of new installation zones by the customer, without the intervention of the supplier being necessary (it allows a progressive integration).

Gateway

- The gateway combines network infrastructure, software and dedicated services to enable a range of applications in lighting management. This equipment provides bidirectional RF communication.
- The embedded platform can be exploited through a device (PC, tablet or Smartphone). To access the platform, it can be done by ETH cable, with internet connection (3G / 4G card) or via Wi-Fi.
- To access the platform it is only possible using your own credentials (username and password). It also allows creating a specific access to view or modify the parameters.
- The radio frequency used is located in a sub-GHz band, 868MHz, in order to avoid further interference from other more common commercial frequencies, creating a mesh network.
- It is possible to use two radio units, thus having the possibility of redundancy and/or the possibility of using several peripherals.
- It allows the use of channel selection and encryption key to ensure that the communication system is used in perfect security.
- Enables remote access and software updates.

Other equipments

- Allows the installation of emergency buttons, which communicate via radio.
- Allows the installation of ON/OFF and/or Push-Dimming buttons to be able to control the luminaires locally, being their operation via radio.
- In case of a momentary interruption of RF communication, the control units remain operational according to the last known programming.

Other services

- Irrigation management and control for gardens up to a maximum of 16 zones.
- Connection to information panels, via RS232 / RS485 / UART by the gateway communication.
- Ambient sound management through a dedicated platform.
- Energy measurement of the luminaires and/or the general electrical supply panel.
- Management and control of solar lighting, providing information of the charge and the battery status.
- Monitoring of room temperature.

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