TLACS-A

Smart Lighting Control Solution for Secure External Areas

Seaports • Airports • Detention Centers • Parks / Campus • Rest Areas
Power Plants • Military Facilities • Refineries

Benefits:

- **Enhances a higher level of safety and security**
- **Reduces remote hacking threat**
- **Offers energy savings**
- **Reduces carbon footprint**

- Automatic lighting control based on the external luminosity, schedules and activity zones
- Ideal for environments with **wave-blocking materials**
- Remote access via the intuitive customized **EOS** user interface
- Turnkey integrated lighting control solution
- Scalability, modularity and flexibility for any size of project
- Simple installation for both retrofit and new projects
- Complies with **ANSI/IES & CIE** lighting recommendations

NYX HEMERA Technologies inc.
Adaptive Power Line Lighting Control

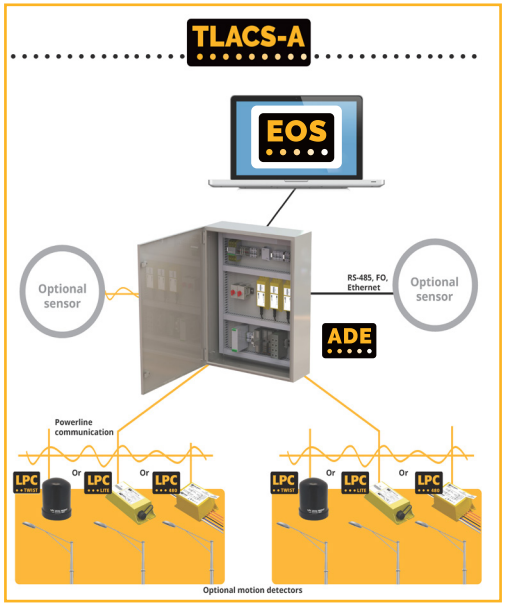
TLACS-A

LIGHTING CONTROL SOLUTION FOR SECURE EXTERNAL AREAS

TLACS-A is a power line lighting control solution designed for outdoor areas requiring enhanced **safety, security, energy saving, and reliable communication** in environments with concrete, steel, or other materials blocking wireless signals. The **TLACS-A** is designed for sites such as detention centers, seaports, airports, power plants, refineries, military facilities or other remote areas where wireless networks are not efficient, recommended or accessible.

Thanks to power line communication, **TLACS-A** offers **enhanced security,** reducing the risk of **remote hacking.**

Easy to install and operate, it requires no trenching or additional control wiring. Any electrical contractor can set it up quickly thanks to its plug-and-play design.



TLACS-A adjusts the lighting based on luminance sensors, motion detection, time schedules, and other parameters.

ADE

The Area Dimming Enclosure (ADE) is the main controller that collects the information from the sensors and sends a signal to the LPC to adjust the lighting.

LPC

The Local Product Controller (LPC) regulates lighting levels. Installed inside the pole or on a 7-pin socket. It adjusts brightness and reports the luminaires' electrical parameters for monitoring and maintenance.

EOS

The intuitive, customisable EOS user interface provides seamless control and monitoring on site or remotely.

The **TLACS-A** solution adapts to the specific lighting requirements of external areas. It uses the same cables that power the luminaires to enable two-way communication for easy remote diagnostics. The system automatically controls the lighting based on configuration rules such as time-based activity schedules of the infrastructure, motion detection, and outdoor luminance detection sensing.
In manual mode, operation is managed through **commands from designated operational stations.**

Key Features:

- Firmware upgrades through the communication network
- Configurable failsafe switching modes (On / Off / Dim)
- No limitation on the number of luminaires per system
- Communication range up to 1 km between injection point and a first luminaire
- Communication failure detection
- Automatic compensation for **Light Loss Factors (LLF)**
- Compatible with 120–480 VAC power line networks
- Luminaire-type agnostic, compatible with any type/ model of luminaire
- Simple installation for both retrofit and new lighting projects
- Control and monitoring of the electrical parameters for every luminaire

AIRPORTS | DETENTION CENTERS | PARKS/CAMPUS | SEAPORTS | REST AREAS | POWER PLANTS | MILITARY FACILITIES | REFINERIES

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Nyx Hemera Technologies

Nyx Hemera Technologies develops and installs smart lighting control systems for infrastructures where energy savings, reduced operating costs, improved safety, optimized operations, and sustainability are essential. The TLACS smart lighting control system has been installed in more than 200 infrastructures around the world over the past 20 years. It is agnostic, making it compatible with any type of luminaire. The company offers a turnkey service ranging from feasibility analysis to after-sales service.

TLACS-A-BRO-EN-2025