

AGL Operating Performance and Safety:

Do you have real-time, long term control of your airfield lights?

Light fixtures on an airfield cannot afford to perform at sub-optimal levels. ICAO defines precise serviceability levels for CAT operations, based on the maximum tolerable number of failed lights in the different circuits. Pre-emptive and efficient monitoring of airfield lights to ensure safe and reliable airport performance is thus a necessity and helping airports achieve this is the Individual Light Control and Monitoring System (ILCMS).

No matter what the size of your operations, the ILCMS is an integral part of every airport's airfield ground lighting portfolio, whether it is:

- A major hub that has implemented state-of-the-art processes such as Follow the Greens or an Advanced Surface Ground Monitoring System (A-SGMS)
- A medium-sized airport that finds it difficult to conduct regular maintenance checks of its lights owing to a busy flight schedule
- A smaller airport that is looking to increase or upgrade its existing infrastructure

ILCMS based on Power Line Communication (PLC) technology uses existing power cables to send data/communicate with a central monitoring system. In this manner, it controls the 'on' 'off' of airfield lights - individually or in a group and maintains a real-time check on their operating performance, increasing overall safety and reliability.

Introducing OCER's Individual Lamp Control Monitoring System (ILCMS)

OCER's ILCMS is designed to increase the operating performance and safety of airfield lights. The key benefits of the solution:

Easy to install and handle

It comprises:

Addressable units (MCC), each monitoring one or two lamps

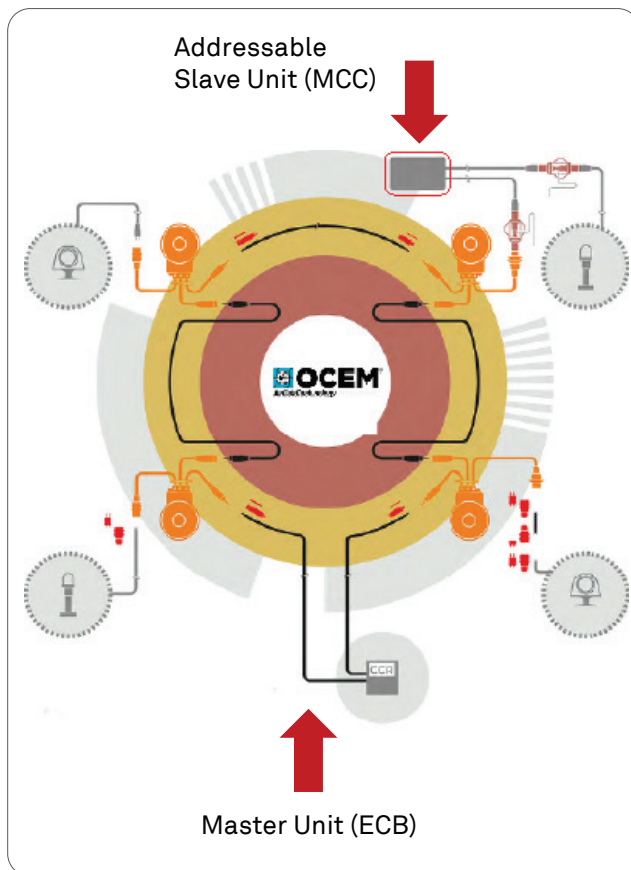


Central Units (ECB), each monitoring and controlling all the lamps belonging to a series circuit supplied by a constant current regulator (CCR)



Comprehensive control and monitoring

- Executes the switching-on/off commands and sends status information back to the ECB
- Monitors the status of the lamp and sends status change information to the ECB
- Short-circuits the isolation transformer when a lamp fails
- Provides the activation of safety procedures
- Performs self-diagnostic checks to detect malfunctions in the MCC device itself



Intuitive GUI

Performance status of each single lamp is easy to monitor through dedicated pop-up windows that show specific runway/taxiway zones and provide an accurate lamp layout.

Open Standards

OCEM's ILCMS is not integrated into the light and follows an open approach. It guarantees full compatibility with all the lights by implementing an FAA compliant fail open monitoring. This means unlike other proprietary ILCMS in the market, airports face no risk of lock in.

OCEM's vision for the ILCMS

The ILCMS is emerging into much more than just a monitoring device. Clubbed with the Airport Lighting Control and Monitoring System (ALCMS), these Smart Lights are the foundation of OCEM's Connected Airport vision as they:

- Enable interconnectivity for an easy Follow the Greens integration
- Offer increased flexibility in overall routing and guidance
- Provide a real-time status of the airfield availability
- Integrate the separate worlds of ATC and airfield

OCEM's ILCMS offers a foolproof runway incursion detection system at Tallinn Airport



Estonia's biggest international airport, Tallinn Airport (IATA: TLL) turned to OCEM when it decided to upgrade to CAT II lighting and migrate to a 100% LED lighting system. More than 3 million passengers flew via the airport in 2019 and more than 20 airlines have regular flights from Tallinn to the rest of Europe, so it is fitting that Tallinn was the continent's first full LED airport and that OCEM was pivotal in its transformation.

OCEM supplied all the LED lights - inset and elevated, constant current regulators, signs and power cabling. OCEM also replaced the ILCMS and ALCMS and installed new stopbar systems. Stopbars and lead-on lights are managed through the new ILCMS, enabling smooth passage of aircrafts and preventing runway incursions. Stopbar systems can also be fitted with sensors to automatically detect the position of the aircrafts and precisely synchronize with the ILCMS controls.

Contact us for a detailed product data sheet:

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