

application ideas

WHY BUILDING INSIGHTS MATTER: EMERGENCY LIGHTING

PRODUCTS

centralized emergency solution

- ▶ **SEAMLESS POWER TRANSITION**
- ▶ **ANY POE FIXTURE CAN BE EMERGENCY MAINTAINED**
- ▶ **EASY INSTALLATION AND CONFIGURATION**
- ▶ **FAILSAFE OPERATION**

poe emergency light node assembly

- ▶ **EASY INSTALLATION & INTEGRATION**
- ▶ **AUTOMATED REQUIRED MONTHLY & ANNUAL TESTING**
- ▶ **REAL TIME BATTERY HEALTH MONITORING**
- ▶ **AUTO DISCOVERY & CONTROL**



Providing emergency egress and exit lighting is a critical part of every building lighting package. Lighting designers are careful to ensure proper pathway lighting and clear signage to direct people in an emergency. Traditionally, there are multiple approaches to providing the necessary lighting; through individually battery-powered devices, centralized inverters, and on-premise power generation facilities. These methods and or combinations are still relevant with PoE lighting systems but with the added benefit of intelligent monitoring and controls to automate testing and ensure the readiness of the emergency lighting facilities.

Many are familiar with the typical exit sign spotlight combination with an onboard battery. Battery backup can also be added to traditional fixtures to create a 'maintained' fixture for egress lighting. Platformatics offers an integrated solution to provide PoE and battery backup in a consolidated driver for use with both exit sign spotlight type combos and maintained fixtures. Platformatics patented technology provides continuous monitoring and automated reporting of required monthly and annual testing of all battery-powered fixtures, minimizing system maintenance.

Similar to traditional emergency systems, PoE lighting may be powered through a centralized inverter, on-premise generator, or a combination thereof. In these scenarios, designated PoE switches are powered by emergency circuits such that PoE power is either maintained or rapidly restored to the PoE lighting devices. Additionally, the lighting system automatically detects the loss of primary power and instantly activates all egress lighting regardless of its prior state. Again, the operational state of all emergency devices is monitored both under normal power and during periods of emergency power to ensure all lighting facilities are operating properly.

Finally in certain scenarios, it is desirable to have emergency lighting powered directly from traditional AC power sources but seamlessly controlled by PoE lighting controls. This setup is made possible by deploying a Platformatics AC interface module which enables the functioning of the maintained fixtures under normal operating conditions. The emergency power source overrides this module during emergency operation.

All of these scenarios can be monitored, logged, and reported through Platformatics Advise software, giving building operators timely information on the emergency lighting system performance.



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