

A new era in smart street lighting

The end-to-end Smart City solution provider Nordic Automation Systems has released the first Zhaga book 18 compliant LoRaWAN™* luminaire controller. The LoRaWAN™ controller offers greater interoperability and presents a more affordable solution to increase the growth of intelligent street lighting systems.

Growing electricity prices, increasing environmental requirements and expanding urban growth are driving the worldwide lighting market to high-efficient LED light sources. LEDs provide longer lifetime, lower energy consumption as well as reduced maintenance costs while lighting will last 2-3 times longer than any other conventional light.

The Zhaga 18 Luminaire Controller developed by Nordic Automation Systems is the first **Zhaga book 18 compliant** controller based on LoRaWAN™ communication. The modernized controller allows easier integration to luminaires due to its simple push-and-twist lock feature to activate smart wireless street lighting without complicated internal wiring.

Thus far, the cost of investment has been restraining the expansion of the smart lighting market. The new Zhaga 18 Luminaire Controller is up to 6 times more affordable than already existing solutions on the market. With its 40 x 19 mm dimensions, the controller is easily adaptable to new LED light sources equipped with compatible receptacle socket.



Demonstrating the new era in the intelligent lighting industry, the newly developed controller offers an opportunity for cities to start integrating smart street lighting system without major installation investments. “With the a arise of new street lighting models, the small dimensions of the controller are an excellent feature to fit with various designs in street luminaires,” says Viljo Veesaar, the CEO of Nordic Automation Systems.

The Zhaga 18 controller has the following key features and benefits:

- DALI interface
- customisable dimming profiles
- configurable ON/OFF switching
- real-time data analytics
- reduced energy consumption and more

The product is designed to work with **DALI-2** systems. Controlling through DALI-2 interface (or with an option to be controlled with a DALI bridge as well) enables to add more addresses on a single DALI network as well as allows better flexibility.

Zhaga Book 18 defines a standardized interface between a receptacle on the exterior of the LED luminaire and a sensing and communication module that fits into the receptacle. The standardized interface means that the module can be easily replaced in the field, allowing the luminaire to be upgraded via the addition of new smart capabilities. Also, the luminaire can be shipped with a blank cap in the receptacle, allowing a module to be field-installed at a later date if required.

Nordic Automation Systems is a participating member of the **Zhaga Consortium** and Digital Illumination Interface Alliance (DiiA). The purpose of Zhaga Consortium is to unite companies throughout the global lighting industry. Companies are cooperating in the development of global specifications for interchangeable LED light sources. Zhaga specifications bring stability and choice to LED industry and they are open to everyone.

The Digital Illumination Interface Alliance (DiiA) is an open, global consortium of lighting companies. Its main aim is to grow the market for lighting-control solutions based on IEC 62386, the international standard for digital addressable lighting interface (DALI) technology.

For product inquiries or pre-orders please contact sales@nasys.no

About Nordic Automation Systems

NAS is an industrial automation company, specialising in end-to-end Smart City & remote metering solutions. Our company's smart gas, water and heat metering solutions include full vertical LoRaWAN™ infrastructure and offerings to include end-nodes, gateways, IoT Hub cloud platform and API accessibility. With in-house R&D and production services, NAS provides a complete range of sensors and meters for Utilities – from retrofit universal to white label branded mechanical and ultrasonic meters. Visit NAS website at www.nasys.no.

**other LPWAN technologies available soon*

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