NAS Nordic Automation Systems

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Tallinn, Estonia

Smart Street Lighting system by NAS is now available online

Smart city solutions are becoming a major part of every city, providing cities with more opportunities to reduce costs and optimize operations while also increasing the quality of life and overall safety. With cities striving for more sustainable lighting solutions, it means smarter decisions to ensure that the right amount of light is provided where and when needed. All this is driving the worldwide lighting market to high-efficiency LED light sources. Together with the LoRaWAN™ controller, LEDs offer greater interoperability and present a more affordable solution to increase the growth of intelligent street lighting systems.

Nordic Automation Systems (NAS) has four different LoRa-based outdoor controllers. Waterproof LoRaWAN Luminaire Controller IP68 and LoRaWAN Luminaire Controller IP54 enable customisable dimming profiles with various configurable inputs. Controllers both reduce CO_2 emission and enable efficient maintenance cycles, while also allowing remote control of the LED and HID luminaires using 0-10V analog or DALI control signal. Additionally, the lighting controller can perform external tasks. It has secondary duplex bus for controlling other electronic devices besides DALI ballasts.

The Luminaire Controller Zhaga 18 allows easier integration to luminaires due to its simple push-and-twist lock feature to activate smart wireless street lighting without complicated internal wiring. With its 40 x 19 mm dimensions, the controller is easily adaptable to new LED light sources equipped with a compatible socket. Demonstrating the new era in the intelligent lighting industry, the newly developed controller offers an opportunity for cities to start integrating their smart street lighting system without major installation investments.

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.

For the complete solution, NAS also offers the network and cloud platform. The fully secure IoT Hub provides bi-directional full vertical encrypted communication between end nodes and a LoRaWAN™ backend, which collects and allows full cloud and network support. IoT Hub allows the users to start deploying LoRaWAN-enabled applications without the need to develop expensive backend infrastructure.

The end-user has the option to connect the data with external applications via API's to use the data in third-party systems.

NAS has teamed up with local companies to support municipalities with LoRaWAN™ intelligent street lighting solution. Within the past 6 months, we have shipped thousands of Luminaire Controllers to more than 10 cities worldwide for deployment.

For more information, please visit nasys.no or contact us at sales@nasys.no. Samples can be ordered from our online store at nasys.no

About NAS:

NAS is an Estonian-Norwegian industrial automation development company specialising in sensor technologies, data analysis and monitoring solutions. In their development, NAS is driven by three main aspects – energy consumption, productivity and effectiveness. They opened the first LoRaWANTM network in Estonia in July 2016. For further information, please visit the company's website at www.nasys.no

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The photos feature a LoRaWAN