



## EnOcean Launches Complete Wireless LED Control System

The comprehensive LED control portfolio is based on the widely adopted energy harvesting wireless standard including transceiver module, LED relay zone controller, accessories and commissioning tool

### **Salt Lake City, UT – February 17, 2015**

LED lighting is one of the most promising and fast-growing technologies of today. EnOcean now enables OEMs to unlock the full potential of LEDs with simple, easy to install, industry standard tools that offer personal control, energy conservation and compliance with increasingly stringent building standards. EnOcean, the leading provider of energy harvesting wireless solutions, announces a comprehensive LED control system for the North American market based upon innovative self-powered sensors and switches, combined with LED fixture controllers and commissioning tools to simplify installation and setup. The building blocks include:

- LED controller family: the transceiver module (TCM 330U) for integration into drivers and modules as well as LED Fixture/Zone Controllers with relay and 0-10V output (LEDR), and without relay (LEDD).
- Comprehensive application firmware enabling dimming, occupancy, daylighting and Title 24-compliant controls right out of the box.
- Navigan, an easy-to-use commissioning tool to link devices and setup parameters over the air from a graphical user interface (GUI)
- EnOcean's established line of white label self-powered wireless switches, occupancy and light level sensors

EnOcean introduces the LED control portfolio at Strategies in Light show (February 24-26, 2015, Sands Expo & Convention Center, Las Vegas) at booth 732. It will be available on the market in March 2015.

### **Faster time to LED market**

With this offering, EnOcean's OEM customers benefit from significantly shorter development timelines, reduced investment, enabling them to focus on the quickly evolving LED market opportunities. Employing EnOcean modules, OEMs can develop products on their own leveraging established LED control applications. Those OEMs seeking a ready-to-use solution can employ finished products to speed time-to-market and reduce development effort.

"LEDs represent a significant advancement in lighting, and are ideally complemented by controls to leverage further energy savings, enable personal control, and meet regulatory requirements. There is a strong need for controls, but the market still lacks comprehensive, standards-based solutions," says Jim O'Callaghan, President of EnOcean Inc. "That's where the EnOcean energy harvesting wireless standard comes into play. It is one of the most established wireless building automation standards, which can flexibly connect local and network controls to a LED system at significant reduced installation effort and cost. With our new LED control portfolio, we offer our OEMs a comprehensive approach consisting of controller, accessories and an easy-to-use commissioning tool. This is a significant business advantage for LED fixture and driver companies in this highly competitive market."

## Wireless control and daylight harvesting

The new LEDR/LEDD controllers use wireless technology to communicate at 902 MHz with other self-powered EnOcean-based products. It provides a simple solution for dimming control of a single fixture or a zone of multiple daisy-chained LED fixtures. In addition, it supports daylight harvesting scenarios, occupancy control and manual dimming processing data from EnOcean-based self-powered wireless occupancy sensors, light level sensors, and switches. The compact size enables flexible installation inside of or next to electrical boxes and fixtures so it can be easily wired out of sight using standard wiring practices.

Users can connect the LEDR/LEDD controller to a central controller or a gateway to integrate lighting control into building automation systems. Alternatively, the TCM 330U transceiver module can be implemented into existing controllers. It already includes the firmware to get immediately started with wireless control.

## Easy setup and remote configuration

LEDR/LEDD provides a very simple manual user interface for configuration and linking of devices. With only two buttons, the user can link and unlink sensors and switches, to dim up and down manually, and to set the minimum dimming value.

For the LED lighting configuration of advanced settings, EnOcean offers the easy-to-use wireless Navigan remote commissioning software to link devices and set parameters (e.g. ramp speeds, dimming levels, integrated repeater etc.) from a laptop computer. Using the Navigan commissioning tool, installers can easily configure the LEDR/LEDD controller over the air in accordance with on-site requirements, define properties and settings as well as edit and store projects.

## Access to a standardized ecosystem

A unique strength of the EnOcean LED control portfolio is its compatibility with the strong EnOcean Alliance eco-system. OEMs have access to hundreds of automation products and solutions based on the leading EnOcean wireless standard and standardized application profiles. This huge range of interoperable wireless self-powered devices is already established on the market and offers LED control a consequently standardized communication. With the comprehensive EnOcean LED control portfolio, OEMs can fall back on this broad line of interoperable products to create a flexible LED control solution meeting specific customer requirements.

In addition, both LEDR and LEDD controller employ the Remote Commissioning certification recently defined by the EnOcean Alliance, which provides a common framework for over the air linking and configuration of EnOcean-based networks.

More information on the wireless LED control portfolio from EnOcean can be found at [www.enocean.com/en/enocean-the-wireless-led-controls-standard](http://www.enocean.com/en/enocean-the-wireless-led-controls-standard) and in the [white paper Daylight Harvesting with EnOcean](#).

## About EnOcean

EnOcean is the originator of patented energy harvesting wireless technology. Headquartered in Oberhaching, near Munich, the company manufactures and markets energy harvesting wireless modules for use in building, smart home and industrial applications as well as in further application fields such as the Internet of Things. EnOcean technology combines miniaturized energy converters with ultra-low-power electronics and robust RF communication. For more than 10 years, leading product manufacturers have chosen wireless modules from EnOcean to enable their system ideas. EnOcean is a promoter of the EnOcean Alliance, a consortium of companies from the world's building sector that has set itself the aim of creating innovative solutions for sustainable buildings. Self-powered wireless technology from EnOcean has been successfully deployed in several hundreds of thousands buildings worldwide. The EnOcean wireless protocol is standardized internationally as ISO/IEC 14543-3-10, which is optimized for wireless solutions with ultra-low power consumption and energy harvesting.

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