



Cost saving and efficient heating & ventilation

ISH 2009: New possibilities for the heating and ventilation markets

Oberhaching near Munich, March 11, 2009

The foundation technology for EnOcean self-powered wireless sensors offers optimal energy efficiency improvements in heating and ventilation applications. From the EnOcean Alliance stand at ISH 2009, Frankfurt am Main, 10-14 March, EnOcean GmbH will present technology and products based on this theme.

Highly flexible, maintenance-free radio sensor solutions

EnOcean develops maintenance-free wireless sensor technology for use in buildings and industrial installations. EnOcean wireless components harvest tiny amounts of energy from their surrounding environment and can be installed without cables thereby completely eliminating maintenance work such as battery replacement.

Furthermore, EnOcean wireless technology offers the greatest installation flexibility. The sensors can be installed in locations for optimal use with minimal effort, without causing damage and can be removed easily, if required.

EnOcean wireless technology saves energy in heating, cooling and ventilation applications

Another major benefit of EnOcean technology is its energy-efficiency. EnOcean components can be used to realise optimal building automation solutions which simultaneously provide comfort and energy savings.

Products and systems enabled by EnOcean are easily integrated into current building automation systems through interfaces such as LON, KNX, BACnet, TCP/IP or Ethernet. In this way effortless sustainable energy management concepts can be implemented.

Whether in homes, offices, schools, museums or other buildings, EnOcean sensors provide the precise metrics necessary to regulate optimal heating and ventilation. The wireless sensors can be installed exactly where they are needed. For example, to monitor a heat pump, for example. Also, when renovating facilities, no complex rewiring is necessary.

Wide product range from global manufacturers

Over 100 manufacturers have designed products based on EnOcean modules such as the solar powered STM 110 sensor transmitter module.

The STM 110 can function with as low as 50 lx, and its powerful integrated energy storage allows unrestricted functionality for several days in darkness. The module is extremely flexible in its implementation and supplies maintenance-free, self-powered sensors for temperature, light, humidity, steam, gas, electricity, water and pressure.

EnOcean Dolphin: new possibilities for heating applications

EnOcean's new Dolphin platform enables bidirectional communication of self-powered wireless sensors and actuators creating the foundation for a wide variety of new products and applications such as heating.

After transmitting an RF signal, the sensors can remain "awake" for a short period of time to receive information from the network. Single room sensors could show if a window is open, explaining why the heating or air conditioning has been switched off.

Also new is an extremely economical timer, only requiring 100 nA of power consumption, which can be implemented in receivers. This now allows self-powered heater drives to be manufactured. The drives harvest energy from the temperature difference between the heating system and its surroundings and collect periodic control values from a control centre. In the future, advanced EnOcean wireless communication could also wirelessly control radiator valves.

EnOcean GmbH and EnOcean Alliance at ISH 2009

Hall 10.2, Stand D10

About EnOcean

EnOcean GmbH is the originator of patented self-powered wireless technology. Headquartered in Oberhaching near Munich, the company manufactures and markets maintenance-free wireless sensor solutions for use in buildings and industrial installations. EnOcean products are based on a combination of miniaturized energy converters, ultra-low-power electronic circuitry and reliable wireless. There are already over 500,000 wireless components in use in more than 10,000 buildings. EnOcean GmbH is a promoter of the EnOcean Alliance, a federation of leading companies from the world's building sector that has set itself the aim of creating innovative solutions for sustainable building. EnOcean has received a number of awards in recent years – for example "Technology Pioneer 2006" of the World Economic Forum, the "Batimat 2007 Innovation Award" in bronze and the Elektra awards 2008: "Wireless & Telecoms Design" and "Company of the Year". EnOcean currently employs more than 45 people in Germany and the USA.

For more information visit www.enocean.com.

Pressekontakt

Slavica Simunovic
PR Manager
EnOcean GmbH
Kolpingring 18a
82041 Oberhaching

T +49.89.67 34 689-653
M +49.160.97 82 85 61

slavica.simunovic@enocean.com
www.enocean.de

EnOcean and the EnOcean logo are registered trademarks of EnOcean GmbH.

© 2008 by EnOcean GmbH