

Background information:

EnOcean wireless technology

RF solutions offer many benefits in installation technology: for connecting **sensors**, such as switches, buttons, motion detectors, room thermostats and **actuators**, such as lamps, indicators, drives, etc. no signal cable is required. In addition to savings in cables, ducts and mounting materials, cable slits and cable troughs are eliminated as well as the associated wall repair and painting otherwise necessary when renovating or modifying an installation. Aside from the faster and more cost-effective installation process, RF technology opens up completely new, previously unthinkable design possibilities, such as switches on glass walls.

In spite of these advantages, wireless technology has found very limited use so far in installation technology, due mainly to two factors:

- Use of the popular 433 MHz band makes undisturbed data transmission practically impossible
- The transmitters have to be powered by means of batteries - rechargeable or otherwise - or by a mains supply

Both drawbacks are eliminated by the use of EnOcean wireless components:

- Transmission is in the 868 MHz band, which is allowed only for intermittent transmissions.
More reliable transmission of the user data is assured by repeatedly sending the wireless telegrams at random intervals.
- The operating power for EnOcean sensors is obtained from the surroundings or from the observed process - in the form of
 - light (solar cells)
 - Heat
 - Kinetic energy (e.g., using piezo elements)
 - ...

This model of power supply results in completely maintenance-free and freely positionable sensors, relegating battery changes to a thing of the past...

EnOcean components

EnOcean-based components from installation and automation technology are now being offered by numerous companies. You can find an up-to-date overview of vendors with their respective products at the EnOcean Web site at www.EnOcean.com.

Sensors:

- **Digital sensors**
 - Buttons and switches for surface mount
 - Window/door contacts
 - Motion detectors
- **Analog sensors**
 - Temperature sensors
 - Gas sensors



Actuators:

- **Digital actuators**
 - Switching actuators as connecting plugs
 - Switching actuators for recessed mount
 - Switching actuators for ceiling installation
 - Switching actuators for row mounting
- **Analog actuators**
 - Dimmers for recessed mount
 - Dimmers for row mounting
 - Control valve regulators for row mounting



Visualization and control systems

The W&T EnOcean Com-Server works together with any software application for visualization and controlling which uses **OPC** as the software standard.

A less costly solution ideal for smaller applications, which we have tested together with the EnOcean Com-Servers, can be found in the "ShowIt" program developed and marketed by

Ingenieurbüro BAUER
Güntherstraße 6
D-14612 Falkensee
Phone: +49 (0) 3322 / 21 21 103
Fax: +49 (0) 3322 / 21 79 75
E-mail: info@showit.de

A free demo version of the program is available over the Internet, which is limited only by the period of use and which allows you to thoroughly test the software.



[We are available to you in person:](#)

Wiesemann & Theis GmbH
Porschestra. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

© Wiesemann & Theis GmbH, subject to mistakes and changes: Since we can make mistakes, none of our statements should be applied without verification. Please let us know of any errors or misunderstandings you find so that we can become aware of and eliminate them.

[Data Privacy](#)