Thermokon®

HOME OF SENSOR TECHNOLOGY

MADE IN GERMANY

BATTERY LESS

enocean®

EasySens®

THE SELF-POWERED INTELLIGENT WIRELESS SYSTEM

» Realisation of flexible and individual building automation for new buildings and retrofit projects

EasySens®

The Self-Powered, Intelligent Wireless System

ADVANTAGES.

BATTERY LESS

» Cost savings due to Energy Harvesting:
  Producing energy from the sensor environment

» Flexibility with sensor location – quick and easy
  mounting and commissioning

» Reduction of fire load – no need for wires

» Easy integration into existing buildings – no wiring

» High-end designs and direct mounting to all surfaces

» Compatibility to other manufacturers:
  International Standard (IEC 14543-3-10)

» Discover *EasySens*® online!
www.thermokon.com/highlights/easysens

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SYSTEM OVERVIEW

TRANSMITTERS

RECEIVERS
(GATEWAYS AND ACTUATORS)

TOOLBOX

airConfig   airScan

INTEROPERABLE
SYSTEM INTEGRATION

BACnet   digitalSTROM   ETHERNET

KNX®   LON
LOCAL OPERATING NETWORK   Modbus

EasySens®

The Self-Powered, Intelligent Wireless System

EnOcean ALLIANCE   enocean alliance Member

In spring 2008, leading companies of the building technology industry formed the EnOcean Alliance.

As a founder member, Thermokon is able to keep up with the latest trends and developments with battery-less RF technology and to develop new and innovative products.

SELF-POWERED.

Thanks to the Energy Harvesting technology EasySens® enables a self-powered operation of products.

The necessary energy is harvested from the sensor environment by:

» Integrated solar cells
» Kinetic energy

INTELLIGENT.

EasySens® transmitters and receivers communicate autonomously.

» Device status can be synchronised periodically or through parameter configuration

» Bidirectional communication of self-powered devices using SmartACKNOWLEDGE   »))«Smart**ACK**

WIRELESS SYSTEM.

Thanks to EasySens® variable room layouts, reconstructions during running hotel operation or renovations in heritage-protected buildings are no challenges any more.

» No time-consuming installation – no wiring

» Low material costs enabling cost-effective system solutions

ROOM OPERATING UNITS
For temperature/humidity detection and integrated operation of HVAC, lighting and blinds.

AIR QUALITY
For measuring room CO_2 levels. Available with traffic light indication and LCD.

HUMIDITY
For measurement of rel. humidity in rooms, ducts and outdoor areas. Also available with a combined temperature sensor.

TEMPERATURE
Temperature sensors for various applications in buildings (e.g. in rooms or heating, refrigeration and air conditioning systems).

LIGHT & MOTION
For detection of light and motion in rooms (ceiling or wall mounting) or in outdoor areas.
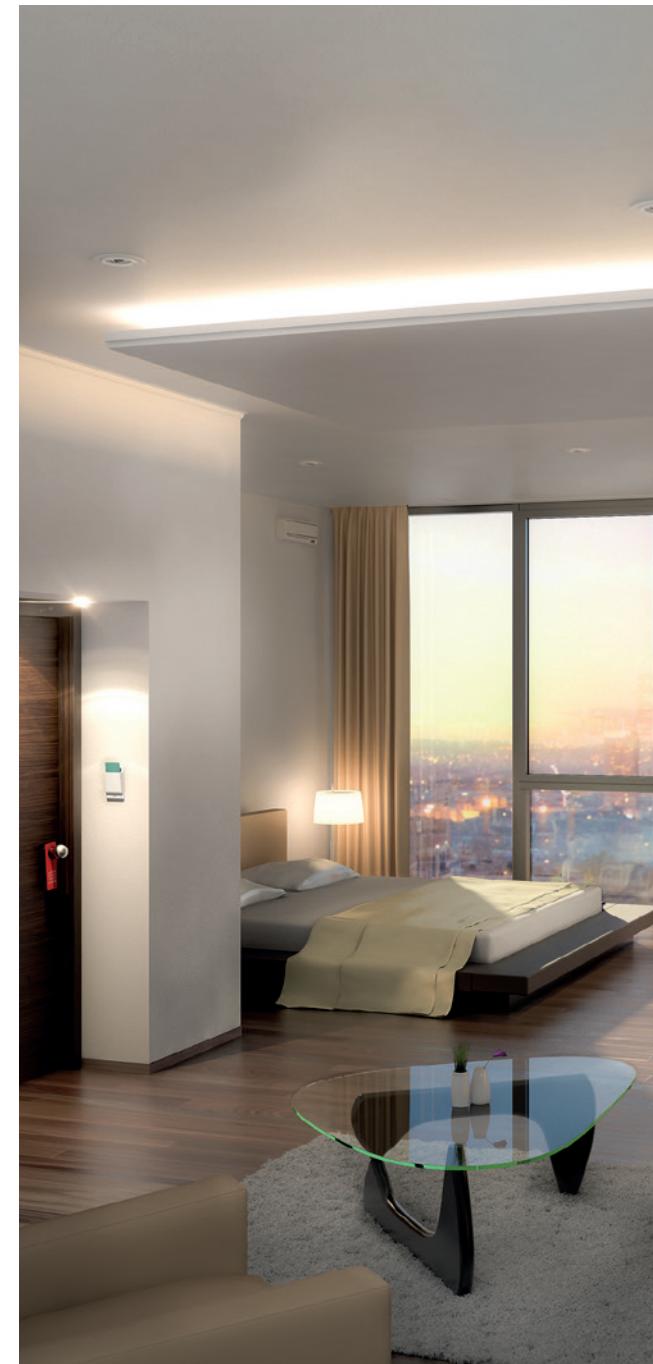
SWITCHES
For control of lights and blinds Available in switch programmes of different manufacturers.

WINDOW/DOOR CONTACTS
For status monitoring of windows and doors.

GATEWAYS
E.g. bidirectional gateways with various protocol interfaces (BACnet, KNX, LON, RS485 Modbus...)

ACTUATORS
Flush-mounted actuators for different applications.

VALVE ACTUATORS
Heating valve actuators for bidirectional communication.

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airConfig

COMMISSIONING MADE EASY!

» Discover **airConfig** online!
www.thermokon.com/highlights/airconfig

airConfig

airConfig uses EnOcean based RF telegrams to configure devices using special remote commissioning commands.

The airScan USB transceivers and the airConfig software tool allow communication and integration to other devices and networks.

ADVANTAGES.

» Seamless learning-in and easy configuration (via RF)

» Saving of all configuration parameters

» Selectable configuration parameters such as telegram wake-up cycles, operating measuring ranges or control of inputs/outputs

» Clearly structured and centralised system information a one glance

» User-friendly maintenance and support

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airConfig

airConfig – Installation and Configuration

» Configuration of transmitted measured variables
   (EEP) and sensor parameters

» Learning-in of sensors by Drag & Drop via RF
   (Remote Management)

» Time saving (copy & paste configuration)

» Remote access to product and project information

» Selectable operating measuring ranges and
   individual naming of sensors

» Identification function via visual and acoustic
   feedback of selected sensors

» Possibility of parameterisation
   (timer, intervals, telegram repetition)

airConfig – Flexibility and Safety

» Change of product functions, ideal for inaccessible
   product installations

» Products using the device IDs

» On-site specification changes (changes of parameters)
   or via remote configuration

» Password protected configuration
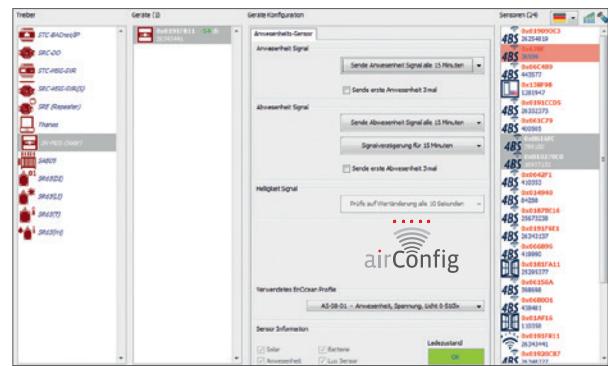
Parameterisation of devices via Remote Commissioning

airScan

MEASURING AND MONITORING

» Discover airScan online!
www.thermokon.com/highlights/airscan
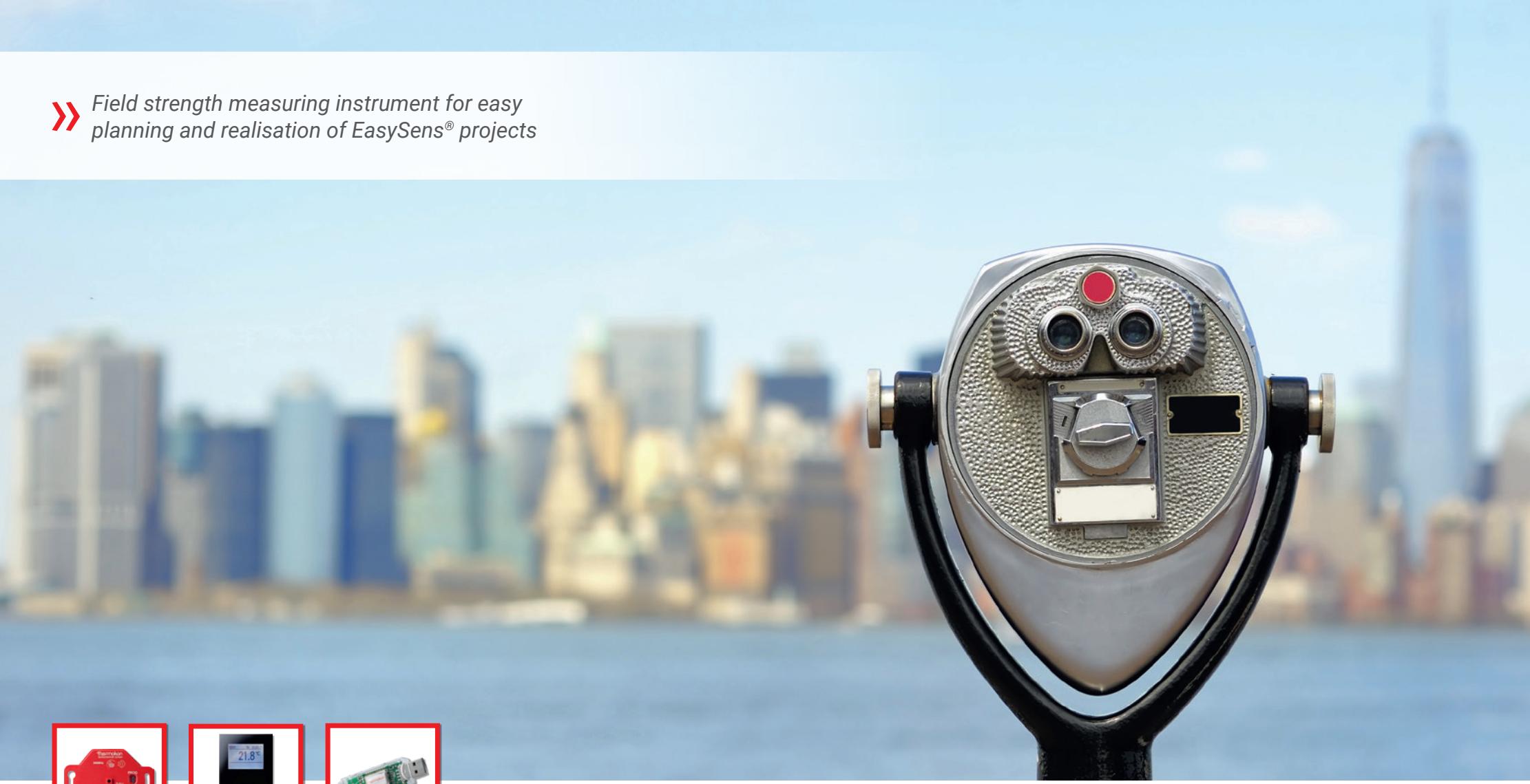
airScan

The airScan software is an EnOcean signal strength tool that helps to evaluate field strengths on site and monitors the local EnOcean radio traffic.

All telegrams transmitted (received) are clearly listed and can be easily a tributed to the transmitting products. The strength of the signal gets highlighted by a traffic light indication RSSI values are a great help to determine proper mounting positions for devices.

ADVANTAGES.

» Range planning and determination of optimal mounting position of transmitters and receivers

» Monitoring function for easy evaluation of RF telegrams

» Data export for further processing/analysis in CSV, XML or XLS data formats

» Logging, repeater function, remote control

» Generation and transmission of EnOcean telegrams

» Status survey of product ID, field strength and manufacturer of integrated products

» Support of EEP 2.6.3-Standard

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airScan – **Generation of Telegrams**

» Using the configurator the user can take all EnOcean profiles from a predefined EEP selection

» airScan telegrams can be easily generated and transmitted immediately
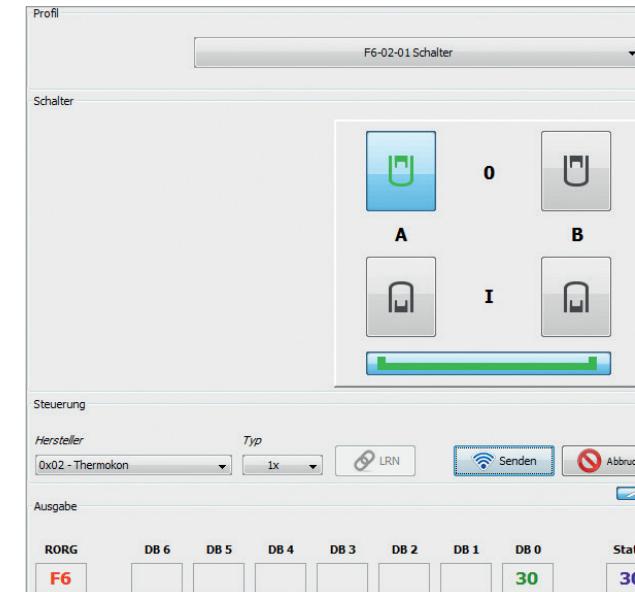
airScan – **Visual Display**

» Translation of all measured values

» Coloured symbols (traffic light system) or graphs indicate the signal quality or RSSI values of a telegram received

airScan – **Professional Evaluation**

» Telegrams can be evaluated in detail (data bytes, RSSI values, sub telegrams etc.)

» Decoding of the measured value

» airScan saves all telegrams received

» Automatic data recording to a FTP server or to an e-mail account and the possibility to export the data for evaluation

The content of a telegram can be defined via configurator
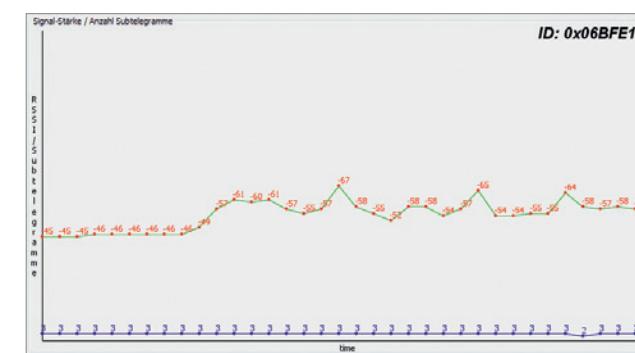
airScan shows the signal strength in chronological sequence
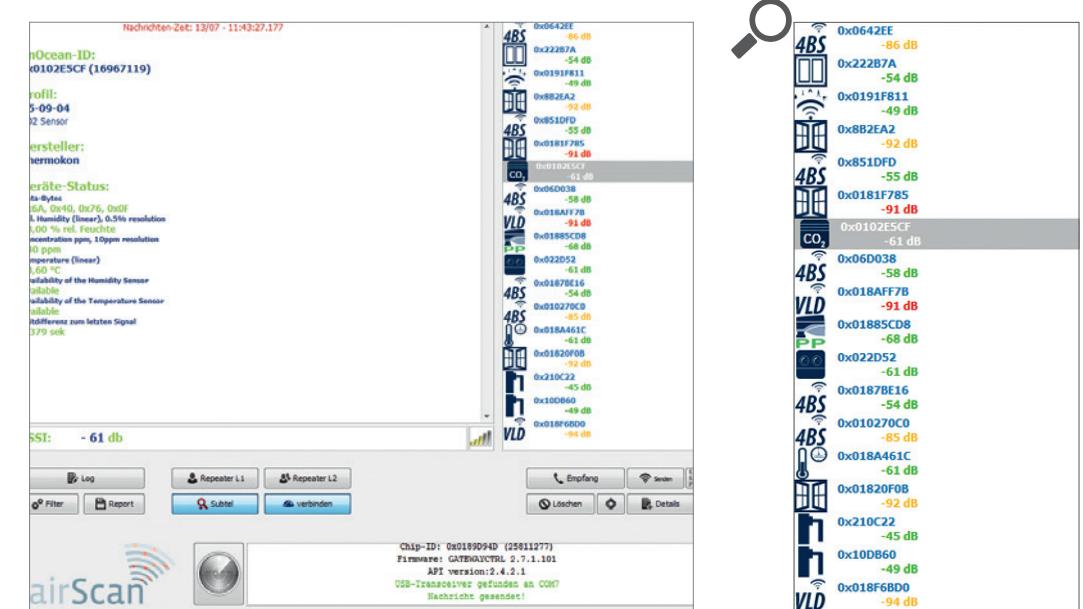
airScan illustrates signals in different presentations

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