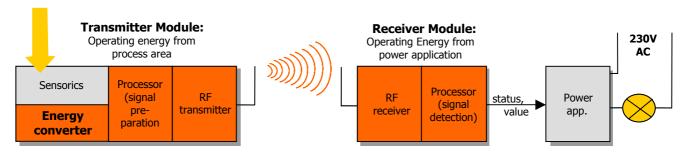
The power of unused energy enocean

RF Technology Without Batteries



Schematics of EnOcean transmitter and receiver modules

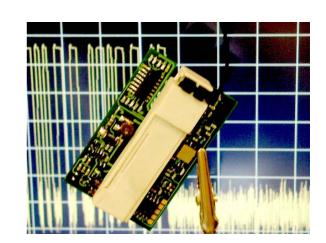
Highly innovative RF modules for controlling, monitoring and signaling systems

- Radio transmitters without batteries, maintenance free: The required operating energy is 50 μWs per action only, comparable to lifting a mass of 1 gram up a 5 mm altitude
- General-purpose transmitters and receivers, easy to integrate
- **High transmission range:** 300m free field (length of three soccer fields)
- Minimal radiation energy: One million times less a mobile phone
- Reliable signal transmission, suited for systems with hundreds of sensors (since signal transmission time is three thousandths of a second only)
- Reliable against external disturbances: Repeated RF signal transmission delayed at random, using of a regulated frequency range approved for pulsed signals only
- **Prearranged transmitter to receiver assignment:** Four billion code numbers are fixed, easy learning procedure (push receiver learn button and activate transmitters)

Operating energy is generated by pressure, vibrations, light, movements, temperature, etc.

Frequency :868.3 MHz	Frequ
Transmission power: max. 10 mW EIRP	Transı
Modulation type:ASK	Modul
Data rate:120 kHz	Data r
Channel bandwidth:280 kHz	Chann
Transmission range:300 m free field	Transı
Duty Cycle :< 1%	Duty (
Radio telegram : 53 to 130 Bit sensor type depending (32 Bit sensor ID, up to 4 Byte sensor data, checksum)	

Transmission time: approx. 30 ms for three identical radio telegrams, 0.5 ms each, delayed at random



The EnOcean products are CE certified and are conform to the R&TTE EU-Directive on radio equipment