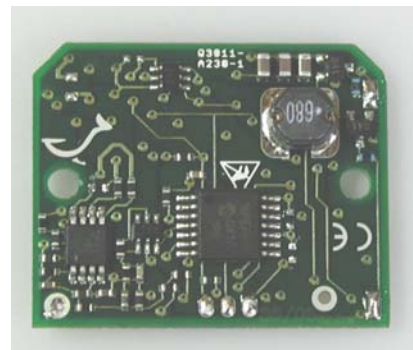


PTM 230 radio transmitter module for battery less switches



The radio transmitter module PTM 230 from EnOcean enables the implementation of batteryless radio switches for applications in e.g. building technology or industrial automation. Power is provided by an external electrodynamic power generator such as ECO 100 or a short energy pulse.



Functional principle:

When a short energy pulse is supplied to the PTM 230 module an RF telegram is transmitted including a 32-bit module ID and the polarity of the supply voltage. In addition the information of 2 inputs is transmitted. With these 2 inputs one rocker of a PTM 200 can be simulated.

Features Overview

- Energy input:** EnOcean energy converter ECO 50 or ECO 100 or equivalent energy pulse
 $E_{\text{Pulse}} > 0.45\text{mWs}$
 $2.5\text{V} \leq U_{\text{max,Pulse}} \leq 5.5\text{V}$
 $0,001\text{ms} \leq T_{\text{Pulse}} \leq 11\text{ms}$
(required pulse width depends on voltage, pulse shape and source impedance)
- Antenna:**no antenna installed, $\lambda/4$ -whip antenna mountable
- Frequency / Transmit power / Modulation:**868.3 MHz / max. 10 mW EIRP / ASK
- Data rate / Channel bandwidth:** 125 kbps / 280 kHz
- Number of digital inputs:**2
- Telegram type:** RPS Typ 2, 32 bit ID, 3 telegrams within 25 ms
- Minimum time between activations:** 45 ms
- Transmission Range:** ca. 300m free field, range strongly dependent on surrounding material
 and position relative to energy harvester or other metal surfaces
- PCB dimensions:** approx. 20 x 25 x 6 mm
- Operating temperature:** -25 to +65°C
- Storage temperature:** -40 to +85°C
- Humidity:** 0-93% r.h. non-condensing, IP 00

Type	Ordering Code
PTM 230	S3011-A230