

## PTM 230 Radio transmitter module

The radio transmitter module PTM 230 from EnOcean enables the implementation of battery-less radio switches for applications in e.g. building technology or industrial automation. Power is provided by an external electro-dynamic 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.



Type PTM230

S3011-A230

## **Features overview**

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

PTM230 is CE certified and conforms to the R&TTE EU directive on radio equipment.