

## Pushbutton Transmitter Module PTM 200

The radio transmitter module PTM 200 from EnOcean enables the implementation of wireless remote controls without batteries. Power is provided by a built-in electrodynamic power generator.

Key applications are wall-mounted flat rocker switches with 1 or 2 rockers (with medial position), as well as handheld remote controls with up to 4 single pushbuttons

## **Functional Principle**

A common electro-dynamic energy transducer is actuated by a bow, which can be pushed from outside the module on the left or right by an appropriate pushbutton or switch rocker. When the energy bow is pushed down, electrical energy is created and a RF telegram is transmitted including a 32-bit module ID. Releasing the energy bow generates different telegram data, so every PTM telegram contains the information that the bow was pressed or released. In addition, the radio telegram transmits the operating status of 4 contact nipples when activating the bow. This enables the identification of up to 2 appropriate switch rockers or up to 4 single pushbuttons. "Long" or "Short" pushbutton operation (the time



between pushing and releasing the pushbutton) can be easily detected by the receiver. By doing that, applications such as dimming control or jalousie control including slat action are simple to implement.

The PTM 200 module serves the 868 MHz air interface protocol of EnOcean. Together with the receiver modules RCM 110 or RCM 120, this module can be easily integrated in operation and control units for the implementation of different application-specific system solutions.

TypeOrdering CodePTM200\$3001-A200

## **Features overview**

Power supply	power generation by rocker operating (Electrodynamic Power Generator)	
Antenna		integrated
Frequency / Transmission power		868.3 MHz / max. 10 mW EIRP
Data rate / Channel bandwidth / Modulation type		120 kbps / 280 kHz / ASK
Channels	2 with 4 action states each (upper/lo	ower pushbutton is pressed/released)
Telegram type	RPS of type 2 (allows interpretation of operating two buttons simultaneously)	
Transmission range		300m free field, typ. 30m indoor
Energy bow travel/Operating force 1.8 mm / ap		/ approx. 7 N (at room temperature)
Number of operation	typ. 50.000 actuations teste	ed according to EN 60669 / VDE 0632
Module dimensions (inclusive rotation axis and energy bow)40.0 x 40.0 x 11.2 mm		
Operating temperature		- 25 up to + 65 °C

Radio signals are event controlled (pushbutton is pressed / is released) with button code and unique module identification (fix 32 bit ID). This product is CE certified and conforms to the R&TTE EU-Directive on radio equipment. The EnOcean 868 MHz technology is also FCC/IC approved for usage in the USA and in Canada.

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