

# PG-4M Pager Receiver

The PG-4M pager receiver is designed for reception of signals from PG-4T pager transmitter. The receiver indicates the reception optically and acoustically and built-in relays can trigger another devices too. Up to 4 transmitters PG-4T can be enrolled to one PG-4M.

## Technical Specification

Power supply 10 - 16 V =  
 Current consumption stand-by 10 mA, max. 50 mA  
 Working frequency 448.17 MHz  
 Working distance form transmitter max. 2 km (open area)  
 Operating temperatures -10 °C to +50 °C  
 Indication acoustic and optical  
 Relay outputs NO, 60 V / 1A =  
 In Norway and Belgium can be operated according to ERC REC 70-03  
 as e SRD, in another countries it has to be licenced.



### Complies with:

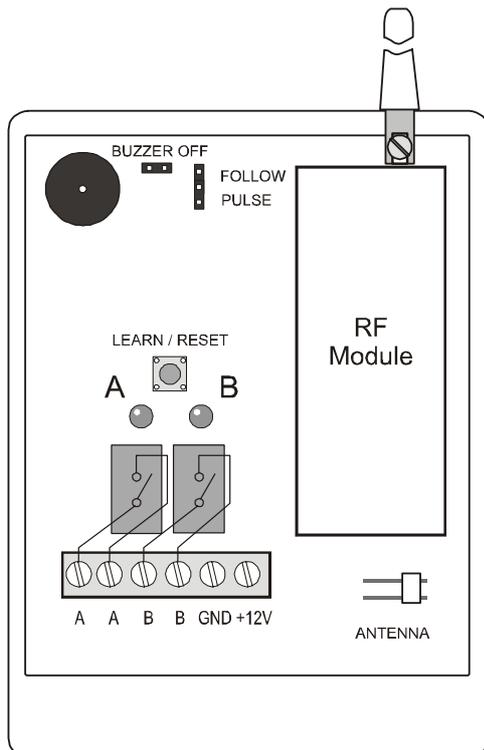
ETSI EN 300 220/2000, ETS 300683/1998, EN 60650/1997

Hereby, Jablotron Ltd., declares that this PG-4M is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Original of the conformity assessment can be found at the web page [www.jablotron.cz](http://www.jablotron.cz), section Technical support.

**Note:** Although this product does not contain any harmful materials we suggest you to return the product to the dealer or directly to the producer after usage.

## Installation

- The receiver is designed for indoor use. It should be installed with the antenna in a vertical position. Do not install the receiver close to metal surfaces, which could reduce the radio communication.
- Open the cover of the unit by pressing in the internal tab on the top (small flat screw-driver is appropriate). You can remove the PCB after you loosen the central screw.
- Route wires through the hole in the bottom of the rear housing. Attach the housing to the desired place.
- Connect wires to terminals. Replace the cover.
- Connect the power supply. You can use a DC adapter or preferable a backup power supply (e.g. BP-12).
- In order to increase the working distance, you can use an external antenna AN-01A or AN-02A. The external antenna should be connected to the ANTENNA connector. When using an external antenna, remove the internal rod one (loosen its screw). This way the working distance can be increased.
- If the PG-4M is used as a part of a security system, it should be placed in a tamper-protected box. If the box is made of metal then an external antenna should be used.



## Enrolling a transmitter to the receiver

Press and hold the LEARN / RESET button until the **A** LED blinks. This indicates entering the enrolling mode.

When any input of PG-4T is triggered, the transmitted channel is enrolled to the PG-4M. Successful enrollment is confirmed by lighting up of LEDs.

The receiver is ready to receive signals from enrolled transmitter now.

## Operating mode

Select one of the operating modes setting the „Follow / Pulse“ jumper:

### FOLLOW mode

In the “Follow” mode the output relays copy the status of the PG-4T inputs.

LED **A** & relay **A** is ON when input **A** of the PG-4T is connected to GND.

LED **B** & relay **B** is ON when input **B** of the PG-4T is connected to GND.

**Note:** The PG-4M receivers in the FOLLOW mode doesn't react on the transmitter's signal that was triggered by powering the transmitter when both **A** and **B** inputs are disconnected from GND (except the enrolling mode). If any input is connected with GND when the transmitter is powered, then the corresponding output relay of PG-4M will be switched on. But it will remain switched even after deactivating the transmitter!

*It is not recommended to use multiple transmitters in this mode.*

### PULSE mode

If the jumper is in the „Pulse“ mode, output relays switches for 5 sec after the corresponding triggering input is switched on or off.

LED **A** & relay **A** indicate connecting or disconnecting of transmitter's input **A** to GND.

LED **B** & relay **B** indicate connecting or disconnecting of transmitter's input **B** to GND.

**Note:** In the PULSE mode the receiver will indicate alarm on the **B** channel if the transmitter is connected to the power supply.

If more transmitters are enrolled, then the receiver will trigger **A** alarm if any **A** input is triggered and **B** alarm if any **B** input is triggered.

## Optical indication

Status	LED	Indicates
ON	A or B	Channel triggered in FOLLOW mode
Blinks slowly	A or B	Channel triggered in PULSE mode. Blinks additional 15 minutes after the relay resets (alarm memory)
Blinks	A	Enrolling mode
Blinks 3 times	A alt. B	Reset

**Note:** The channel **A** LED blinks after the power supply is switched on. The number of flashes corresponds to the number of enrolled transmitters.

## Acoustic indication

If any relay is triggered, the built-in buzzer beeps for 15 sec. Different sounds are generated in order to distinguish the channel **A** (--- --- ---) or **B** (... ...).

**Note:** The sound corresponds to the latest received signal. You can switch the buzzer off if you disconnect the BUZZER OFF jumper.

## Reset

You can delete all enrolled transmitters and reset the relays if you press and hold the LEARN / RESET button too a long time. It is confirmed by LEDs alternating blinking and a short beep.

If you press the LEARN / RESET button shortly, the relays and the buzzer will reset.