

# PG-4W Pager

The PG-4W pager is designed for the wireless transmission of car alarm signals and for local area paging. Additionally, this device can be used for remote indication of other signals. The PG-4W set includes: PG-4T transmitter, PG-4R receiver, AN-02A tape antenna and a wire harness.

**The transmitter** can send two different signals (it has two signal inputs: A and B). Each transmitter has a unique transmitting digital code (factory set). This code insures that only a receiver, which was set for this code, will react to the transmitted signal. An unlimited number of receivers can be set for each transmitter.

**The pocket size receiver** can be carried or clipped on your belt. It responds with an audible and visual signal if the corresponding code is received. Different sounds distinguish between the inputs (A or B) of the triggered transmitter. This allows for a car alarm signal to be distinguished from a manual triggering signals. The receiver can enroll 3 different transmitters (see enrolment of the transmitter).

## Specification

### transmitter:

operating voltage	10 – 16 V DC
consumption	stand by - 6mA, act. 0.5 A
frequency	448.17 MHz band
radiated power	0.5 W
working distance	up to 2 km (open area)
coding	digital (1,000,000 unique codes)
transmitting time	3 sec.
operating temperatures	-40 °C to +85 °C
antenna	AN-02A, AN-03

### receiver:

power	1.5V, AAA battery
consumption	typ. 0.9 mA
battery life	typ. 1 month
indication	acoustic & visual
operating temperatures	-10 °C to +50 °C
antenna	built-in frame antenna

*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 300 683, EN 60650/1997

Hereby, Jablotron Ltd., declares that this PG-4W 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 transmitter should be installed in the passenger compartment of a car. Avoid locating it close to any other electronic device.

**Antenna** - the AN-02A adhesive tape antenna should be fixed to a window. It should be located vertically at least 5 cm away from the edge of the window. Do not install the antenna on a window with a built-in defroster. Do not cut the antenna cable nor try to increase its length. If you do not need the whole cable, bind the unused part and fix it to the wire harness. Do not install the antenna if outside temperature is lower than 10 degrees.

### Wiring:

The wire-harness is equipped with a connector, making installation easy. If you do not use some wires in the harness, you can release the wires from the connector (press the connector tab inside the housing with a narrow screwdriver).

### Wires:

**Red** = positive +12 V power supply. It should be connected directly to the positive terminal of the battery cable. Connect this wire only after you finish the installation. After switching on the power supply, the transmitter will send the signal of the triggering of input A. (This feature can be used for a simple two-wire connection to a car alarm output.)

**Black** = GND Supply. Connect this wire to the original GND in the car.

**Blue** = trigger input A (receiver will react with the sound — — —)

**Green** = trigger input B (receiver will react with the sound ... ..)

Both inputs are triggered whenever they are connected or disconnected with the GND. A red LED indicator confirms transmitter activation.

**White** = when transmitting the 5V signal is present on this output. An external LED can be connected to indicate the transmission (1 kOhm serial resistor is enclosed to the PG-4T).

**Pink** = data input for connection to Jablotron CA-320 Accent or CA-10 Rex car alarms. If you connect this input to AUX data pin of the Accent or Rex car alarm, you do not need to connect the blue and green wires. Car alarm signal will trigger input A and a simultaneous pressing of both remote control buttons will trigger input B. The wire is not installed in the wire harness. You have to insert it to position No.6.

*The remaining pins on the connector are not used. They are for future applications. Do not connect them.*

LED indicator on the transmitter indicates:

- **transmitting** – it is on during transmission
- **low battery** – two quick flashes
- **failure** – three quick flashes

**Examples of installations** with Jablotron's car alarms are shown in the diagrams.

The pager can also be connected to the alarm outputs of other car alarms. Functioning is then based on the alarm features and cannot be guaranteed by Jablotron.

The trigger inputs can also be connected to any sensor (e.g. door contacts) directly. Sensor activation will then trigger the transmitter and will be indicated by the receiver.

## Operation

### Preparing the receiver

Insert a AAA size battery in to the PG-4R receiver. The receiver will sound a short beep. Once the battery is installed, the receiver is ready. You can check the readiness anytime by pressing the receiver button – a short beep will confirm operation.

### Switching ON and OFF

**To switch the receiver OFF** press the button on it 3 times rapidly. Turning OFF is confirmed with a fading sound.

**To switch ON**, press and hold the button for 3 seconds. Turning ON is confirmed with a short beep. If a long beep sounds, the battery is low.

### When alarm signal is received

- the receiver reacts with audible and visual signals
- By the type of sound, you can distinguish whether input A (— — —) or B (... ..) has been activated
- You can stop the signals (confirm reception) by briefly pressing the button
- If the button is not pressed within 15 seconds, the information will be automatically stored into the memory. The receiver will then beep every 30 seconds. When pressing the button you will hear the original signal corresponding to the input A or B triggering and the memory signal will stop.

### Transmitter enrollment

The receiver included in the set has already been taught the transmitter's signal in the factory. If you install a new receiver to the transmitter, perform following:

- Press and hold pressed the button on the receiver when installing the battery. After about 5 seconds you will hear an acoustic signal and the indicator will start to flash (learning mode).
- Trigger transmitter's input (A or B), the receiver will enroll the transmitter code (and corresponding alarm signal will sound).
- Up to 3 different transmitters can be enrolled to the receiver.
- To erase all transmitters from the receiver, open learning mode and then press and hold pressed the receiver's button for 2 seconds. Repeated short beeps will confirm the reset.

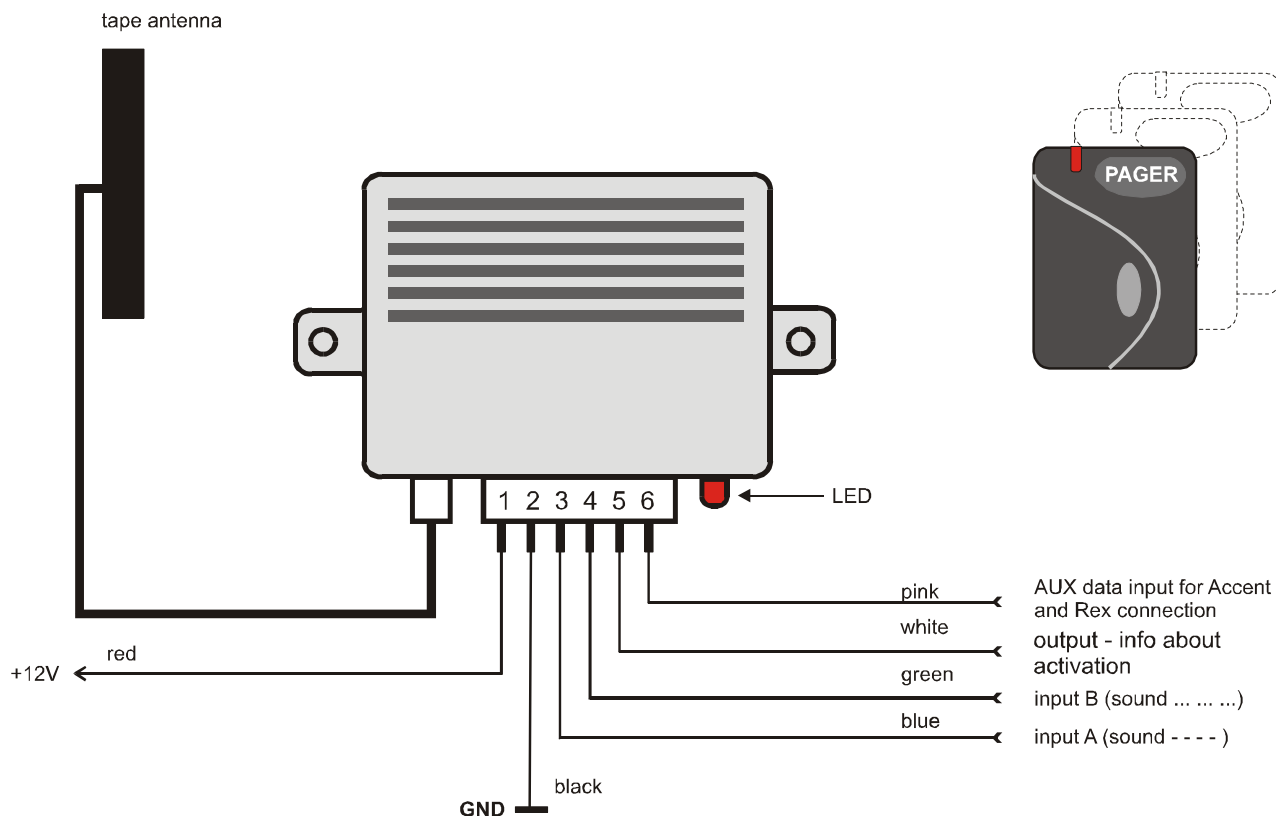
### Battery check

The receiver performs an automatic battery check. If the battery is low, the receiver will beep continuously for 10 seconds. After this signal the receiver will remain ready for some time and 3 short beeps will sound every 15 minutes. If you press the button, three beeps will sound (low battery warning). Replace the battery as soon as possible.

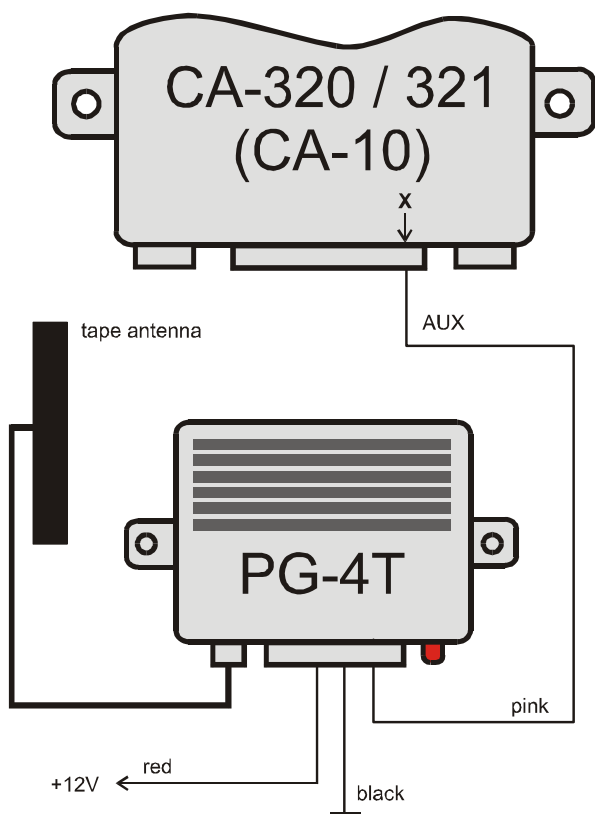
### Battery replacement

Use only new high quality alkaline AAA battery. After inserting a new battery, a short beep must be heard. If a continuous beep or no beep is heard, the battery is low or not installed correctly.

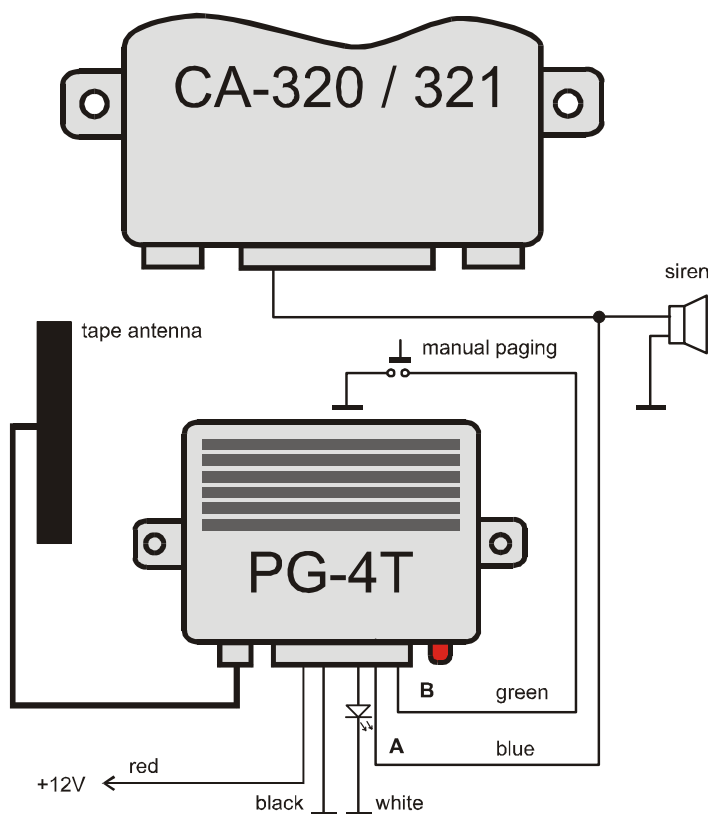
**Note:** this manual is valid only for the receiver version PG-4R v.02 (see label in the battery compartment)!!!



**Pic. 1 Transmitter connection examples:**



**Pic. 2 Example of connection with CA-320 or CA-10 (using AUX data input)**



**Pic. 2 Example of connection with CA-320 or CA-10 (using standard A and B inputs)**