



Receiver REX 5 MPD

The receiver REX 5 MPD (Microprocessor Pulse Decoding – microprocessor decoder) is assigned to the reception of FM signals in the 27, 35, 35B, 36, 40, 41 and 72 MHz radio bands.

Due to its small size and low weight the receiver suits very well small model airplanes with wing spans up to 1500 mm and maximum weights to 1,5 kg. The receiver provides five servo sockets which can either be used for connecting up servos or the receiver voltage supply. Suitable types of servo connectors are Futaba, Graupner or Hitec.

The main advantage of this new product is the application of the so called intelligent decoder which imparts certain characteristics to the receiver showing similarity to PCM receivers.

The applied solution allows elimination of short time signal losses as well as servo buzzing and servo jitter. If signal loss intervals increase the processor generates internal servo steering pulses which are the result of an analysis of the last valid input pulses and pulses stored in the processor memory during the activation period of the receiver. This method very much resembles the Fail Safe function but is, in fact, much more efficient (minimum time delay).

Technical Data

- outside dimensions	31 x 17 x 9 mm
- weight	8 g
- sensitivity	8 μ V
- antenna length	500 mm
- number of servo outputs	5
- environment temperature	-10 to +40 °C

The choice of the HF channel is simply realized by exchange of a standard FM crystal. We strongly recommend the application of JETI model crystals. It is also feasible to use Futaba, Graupner or Hitec crystals.

***Remark:** Due to the relatively wide deviation of crystal parameters it is very difficult to grant a proper receiver function with all types of crystals. If after insertion of a crystal the receiver is not working then it is inevitable to check another crystal type. Above all this refers to Futaba crystals. In Transmitters it is essential to use original TX crystals only.*

Insert the crystal into sockets on the side of the receiver. If all five receiver servo outputs are occupied by servos it is necessary to insert into one of the servo output a V-cable for the voltage supply. The voltage supply batteries or the V-cable may be connected to any of the servo outputs. The voltage supply of the receiver may consist of four NiCd cells (4,8 V) or of the stabilized voltage 5 V (BEC) of the motor controller (electric flying models).

Installation: Wrap the receiver into soft foam and place it as far away as possible of interference generating sources (servos, electric flight motors). We recommend not to tamper in any way with the antenna. The receiver reacts sensitive to antenna placement adjacent to metal conductors (for instance parallel to bowden cables in fuselages or to servo cables of servos positioned in the tail of the model).

It is most advantageous to leave the antenna flying free behind the model. For the receiver we grant a warranty of 24 months from the purchase date, presuming that the receiver has been operated with the prescribed voltage and shows no mechanical damages. Warranty and post warranty repairs are provided by the manufacturer.

With best wishes for many pleasant flights, yours truly manufacturer:

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