EV-REC1 Receiver Operational Description

The EV-REC1 RF Receiver is a low powered, receive data signal from hand held unit for remote controlling relay output or DATA bus transmission features. See the function descriptions in attached. The receiver is powered by a 12 volt power supply. It is designed to operated on a single fixed frequency at 433.92 MHz. See the attached block diagram and schematic.

This receiver decode circuit is using RF(RF1) and integrated circuit which receives the digital control signals and will modulate the carrier signal(ASK). After decoding, data will be transferred for function display (U1). The carrier signal is generated by a crystal (X1) circuit comprised of a 433.92MHz. The modulated output of the RF stage is coupled to the external antenna. The external antenna is attached on PCB around 160mm.

All tuning and verification are performed by the manufacture and there are no adjustments can be made by user.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.
(2) This device must accept any interference received: including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio of TV interference caused by unauthorized modification to this equipment. Such modification could void the user' authority to operate the equipment.