

Hunter B32 Bathroom Fan & Light Remote Control Transmitter Description of Operation

Description:

The top box of the diagram below represents all of the potential keys that may be pressed for the Hunter transmitter. When pressing the On / Off Button, power on & off. Pressing light/fan/delay key generates an encoded PCM code words, which will modulate on a 350 MHz RF carrier for transmission. The encoded PCM code word is obtained from MCU U1 and is ASK modulated by the RF oscillator formed by transistor Q3. Delay-off button turns off device(s) selected in Device selector switch which enables fan, light or both for delay-off operation after the time selected by Delay-off time selector switch which turns off selected device(s) after 5, 10 or 20 minutes.

RF Transmitter Coding

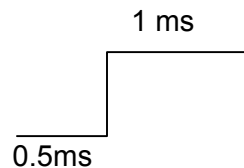
Description: The Hunter transmitter uses the following code words to modulate on a 350 MHz RF carrier by using ASK modulation.

Code words for the different commands:

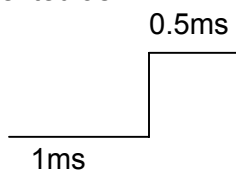
1000XXXXXXXXX
1001XXXXXXXXX
1010XXXXXXXXX
1011XXXXXXXXX

(Where "x" is the address code generated by the MCU randomly.)

Code "0" is represented as:



Code "1" is represented as:



The interval between two code words is about 12 ms.