

W-62 Transmitter / Receiver Operational Description

The W-62 Transmitter and Receiver is a remote control device for a ceiling fan with lamp. The remote works as follows. When a button is depressed on the remote a change of voltage occurs on the encoder chip inside the transmitter. This input causes the encoder to send a series of long and short pulses indicating the desired function (dim lamp, reverse fan direction, etc) and identify the ID code defined by 4 DIP switches in the remote. This series of pulses is then modulated at a 304 MHz transmit frequency (factory fixed) and transmitted via the internal, non-detachable antenna.

The pulse duration and periods is further defined in the W-62 Transmitter Test Report.

The receiver receives the 304 MHz encoded signal via a tuned receive circuit. Then the pulse durations are timed and, if matched to a valid function and ID code, operates the lamp dimmer circuit and fan off/low/high and forward/reverse settings.