

Wall Switch Style – Transmitter Technical Description

The Wall Switch Style Remote system is composed of 2 units. One is the remote control unit (Transmitter) and the other is the power switch unit (Receiver). Both the transmitter and receiver are controlled by microprocessing unit (MPU).

The transmitter is powered by 2 x AAA alkaline battery cell or AC24V. Modulation type used is Pulse Modulation. It consists of 3 parts, Remote Control Encoder (MPU), Modulator and RF OSC.

When a button is pressed, it is encoded by the Remote Control Encoder (MPU). Then, the encoded signal is modulated with a carrier frequency of 433.92MHz inside the Modulator.

Finally, a modulated signal is transmitted through the antenna.

The antenna used is PCB antenna, with declared gain=0dBi.