

Circuit description:

The 434MHz crystal oscillator drives the base of Q4 the final/buffer amplifier. The modulation provided by IC. The output of Q4 has the matching network consisting of C13, C16, C23 and L1 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground and Power Source

The antenna consists of a 2cm long Metal antenna.

There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 3 Volt ("AA" size battery x 2) primary battery

This product is operated by 3V (AA) battery.

-MCU will detect the temperature , humidity sensor and will display the temperature and humidity. At the same time , it will transmit the signal through the data pin .

The RF circuit will modulate the signal (AM modulation) and output the modulated signal by the antenna.

Operation Descriptions

The transmitter is a thermo hygro sensor operating at 434MHz band. The transmitter is powered by a 3V battery ("AA" size battery x 2) and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form pulse modulating signal on the 434MHz carrier frequency.