

Principle of Operation

The micro-controller (U1) on the Remote Transmitter reads the resistance of the temperature sensor (TH1) every 16 second. It then converts the resistance reading into temperature reading and display the temperature on the LCD.

When the user press the on button on the Remote Transmitter, the micro-controller will send a series of on/off code words to turn on/off the RF oscillator(Q1,C7,C8,C10) which in turn will transmit an on ASK RF signal to the Remote Receiver. When the user press the off button on the Remote Transmitter, the micro-controller will send a series of on/off code words to turn on/off the RF oscillator(Q1,C7,C8,C10) which in turn will transmit an off ASK RF signal to the Remote Receiver.

All timing on the Remote Transmitter is derived from 32768 Hz Crystal-Oscillator and 4.19 MHz Ceramic Resonator Oscillator.