

Technial description of THR228N

THR228N is a Remote outdoor thermo sensor. The temperature is measured by the MCU and encoded to transmit to the main receiver unit through 433.92 Mhz RF signal by Analog Modulation ON/OFF keying.

It composes a controller part and a transmitter part. The transmitter is basically a Colippttis oscillator, where XT1 are used to determinate the resonant frequency that is 433.92MHz.

Transistor Q1 whose f_T is greater than 6GHz, provides a good frequency response to the (C20, C26, C27) circuit. There is a LC filtering circuitry used to suppress harmonics of the oscillator. Typical (R1-3) inductor and capacitor matching circuit is employed to match the impedance of the antenna.