

Job = et06207

Circuit Description, Model:75321A1 outdoor Thermometer

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The Outdoor thermometer is a MCU controlled transmitter working at 433.94MHz Powered by 2 pcs AAA battery. The circuit of outdoor thermometer has 2 main parts, MCU circuit and transmitter.

MCU

The MCU (MI2205) is the heart of Outdoor thermometer, The system clock is control by (32.768KHz) crystal. The MCU will decode incoming signal from RT SENSOR
It will switch on/off the transmitter hardware via pin 29.

Transmitter

The oscillator (Q30) working at 433MHz is controlled by a SAW resonator, the output is coupled to output amplifier (Q31). A band-pass filter (C39, C40, L32 and C41) is placed between the output amplifier (Q31) and the built-in antenna. The RF signal is generated when the positive (refer to ground) part of an encoded pulse. A pulse width modulation RF signal is being sent.