

Technical Description

The equipment under test (EUT) is a weather sensor operating at 433.95MHz. The EUT is powered by 3.0VDC (2X 1.5V "AA" batteries). The EUT will transmit RF signal to the corresponding receiver and the receiver will display the humidity and temperature on the screen of receiver.

Antenna Type: Integral, Internal (PCB Trace)
Nominal field strength is 86.3dB μ V/m @ 3m
Production Tolerance of field strength is +/-3dB
Antenna gain is 0dBi

The functions of main ICs are mentioned below.

1. GE13-810 (IC2) contains the MCU
32.768kHz crystal (Y4) acts as clock for the MCU core
Provide main control function and it is responsible to transmit the data from temperature sensor (RT) and humidity sensor (RH) to Tx module.
2. Tx module provide 433.95MHz signal transmitter
Filter Network: C5, C15, C7, C13, C14, L7, L6
Amplifier and Modulator: Q1, Q2, X1