

## Operation Description

The Thermo-Hygro is powered by 2 X 1.5V battery. It operated at 433.920MHz and used for out door. It has four difference sensor for measure Rain, Temperature, Wind Speed and Wind Direction. When the encoder IC received the data form the sensor, it will transmit a radio signal to received unit.

Refer to the transmitter circuit design, the circuit description is listed as below:

- Y1, Q1 and associate circuit act as oscillator for RF.
- Y1 and associate circuit act as oscillator for transmitter IC.
- Y1 and associate circuit act as oscillator for wind sensor IC
- U1, Q3 (A1505A2Y) and associate circuit act as temperature sensor + data encoder.
- U1 and associate circuit act wind seed & direction sensor.
- Q2, Q3 and associate circuit act as rain sensor.
- Q2 (TC3356S) and associate circuit act as RF transmission.