

## **Technical description of THN801**

THN801 is a Remote Thermo Sensor. It's powered by 1pcs "AA" Battery (1.5V).

After every time of thermo measurement, THN801 will convert the data into OOK signal format and transmit via RF of 433.9MHz. It is consisted of 2 parts: Control part and transmitter part. The MCU (U1) outputs the digital data, then the data will be modulated into the Colpitts oscillator, where the SAW Y1 (433.92MHz) is used to adjust the operating frequency to 433.9MHz. The transistor Q5, with its  $f_T$  greater than 6GHz, provides a good frequency response to the oscillator circuitry. The RF signal is transferred through Pi-network attenuator (R19, R20, R21) and matching network (C21, L5, C20, C19, L4, C17, C14, C8), and radiate by 2pcs Spring Antennas.