# **Technical Description**

### Introduction

This unit is a transmitter equipped with temperature Sensing ability and transmits temperature data through RF carrier in frequency of 433.92MHz. It is designed for outdoor usage and it is powered by 2 piece. 'AAA' size battery cells.

### **MCU**

MCU detects temperature data from the thermometer circuit and transmit those data by 433.92MHz RF transmitter circuit.

#### Thermometer Circuit

Thermometer circuit was using a thermistor for temperature detection. It resistance reduces when temperature increasing. The MCU detect this circuit resistance and converts to temperature data.

### RF transmitter Circuit

It is 433.92MHz AM transmit modulate. RF transistor oscillates in frequency of SAW resonator, which is 433.92MHz.

#### Red LED

When the data is being transmitted the LED would be turned ON for indication.

# °C/°F conversion switch

This switch is select degree of Celsius and degree of Fahrenheit.

#### Switch for Channel selection

This switch to tell the MCU which channel is selected.

# Low Battery Inspect Circuit

This is MCU detects low battery signal with this Circuit. The Low battery signal would also be transmitted trough RF,433.92MHz carrier.

### **Reset Circuit**

It uses reset the unit.

## Short pads for operation mode

It uses to select Test mode at the production. Customer cannot see the short pads.

