



IDT Technology Limited

萬威科技有限公司

Thermo Sensor

IDT model no. THR128

## Technical Description

### Introduction

This unit is a simple thermo sensor. It can transmit 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.

### Main MCU (U1)

MCU is a simple thermo detector and display temperature reading. MCU transmit data by 433.92MHz RF transmitter Circuit. This MCU detect battery by low battery inspect circuit. Current temperature reading will show in LCD display.

### RF transmitter Circuit (Q2, X1)

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

### Low Battery Inspect Circuit

This is MCU detects low battery signal with this Circuit.

### Reset Circuit

It uses reset the unit.

### Function option for operation mode

It uses to select functional option at the production. Customer cannot see the short pads.