



IDT Technology Limited

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Thermo Sensor  
IDT model no. THN128

## 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. MCU transmit data by 433.92MHz RF transmitter Circuit. This MCU detect battery by low battery inspect circuit.

### 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.