



# Temperature Sensor-Logger

RFID Active Tags  
SIM-RFID



Based on the architecture of the Active-Tag, the temperature sensor-logger exhibits the same reading distance and dual frequency operation: 13.56 MHz for near-field and 2.45 GHz for extra wide area coverage. The basic features of the Automatic Real-time Inventory is added with the temperature sensing with a precision of +/- 1°C over the full temperature range of the tag.

## Settings of the temperature logger:

- Sampling interval
- Storage within predetermined temperature limits with time stamp
- Storage outside of predetermined temperature limits with time stamp
- Permanent temperature monitoring



The second generation of Active Tags is based on a new ASIC designed specifically for this application. The most modern CAD tools and simulation platforms have been involved for the design and industrialization of the product. It is fitted with a unique serial number hard-coded factory programmed over 56 bits (70 quadrillion combinations).

## Features

Dimension, case	48.5 x 62.5 x 4 mm ; ABS; Color Gray or on demand
Mounting holes	diameter 3mm
Protection rating	IP53 or optional IP65
Coverage Range	Up to 125000m2 free space, Up to 3000 m2 indoor
Operating Frequency	ISM Band 13.56 MHz and/or 2.45 GHz
User Configuration	Read Only or Read-Write 128 Bytes
Battery lifetime	6 years @ 4s beacon rate, RO, over full temperature range
Operating Temperature	-20°C to +70°C
Precision	+/-0.5°C over 0°C to +50°C ; +/-1°C over -20°C to +70°C
Memory size	256 temperature logs

## Compliance

Frequency	2.400GHz ~ 2.483GHz worldwide unlicensed ISM band
Temperature	IEC 60068-2-14 (Na) - Operating -20°C~70°C; Storage -30°C ~ 85°C
Vibration	IEC 60068-2-64 – Test Fh
Free Fall	IEC 60068-2-32 part2 – Test Ed
Regulation	ETS300-440 Rx Class 3; Tx Class 8; Duty cycle Class 2
Safety	EN50364: 2001 (Limitation of human exposure to EM fields)
SAR Coeff. in 10g of human tissue	< 0.000009 W/kg

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