

LR TEMP

Temperature LoRa sensor
EU Version 868MHz : ref. IDF320003B
US Version 915MHz : ref. IDF320007



BENEFITS

- LORAWAN certified temperature sensor
- Battery life : up to 20 years
- Very long range
- Compact and industrial casing – IP68 waterproof
- Integrated NFC chipset



TECHNICAL SPECIFICATIONS

OPERATING MODE

Frequency	868 MHz – LoRaWAN protocol 915 MHz – LoRaWAN protocol
Output power	Up to +14 dBm (configurable)
Range	Up to 5000 m depending on the DR mode used
Transmission period	300 seconds to 24 hours (adjustable value)
Radio frame format	21 byte frame format including tag name (8 bytes), voltage in mV (2 bytes), temperature sensor data (2 bytes)* <i>*Refer to the frames specifications for more information.</i>
Sensor characteristics	Resolution : 0.0625°C Accuracy : ±0.5°C maximum (0°C to +65°C) ±1°C maximum (-40°C to 0°C and +65°C to +85°C) Transmitted sensor data: temperature in 0.01°C on 16 bits.
Parameters & configuration	Interface/protocol : NFC (Type 2)
Remotely configurable parameters	LED activation, LORA class, DR mode, transmit power, standard transmission frequency.
LoRaWAN Network	OTAA activation

BATTERY

Power supply	3.6 VDC – 2 LS14500 lithium battery replaceable by the user
Battery life	Up to 20 years* <i>*Refer to battery life curves for more information</i>
Battery level	Battery information included in the frame in mV

CERTIFICATIONS

Europe	CE : EN 301 489-3 / EN 301 489-1 & EN 300 220-2 / EN 300 220-1 Health : EN62311 Electric security : EN 60950-1
USA	FCC : FCC 15.247 / FCC PT 15B
Canada	ISED : RSS-247/ICES-003
RoHs	Yes

HOUSING

Dimensions	119 x 51 mm – height : 24 mm – 2 fixing holes type M4
Weight	125g
Materials	DELTRIN (POM C)
Waterproofness	IP 68
Operating temperature	-40°C to +85°C

ACCESSORIES

Tag support	Ultra-strong double-sided adhesive: LORA STICKER (ACIOM202)
--------------------	---

MECANICAL DRAWINGS

