

## LR TEMP



### Temperature LoRa sensor

EU Version 868MHz : ref. IDF320003B

US Version 915MHz : ref. IDF320007

AU Version 915MHz: ref IDF320011

### 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

<b>Frequency</b>	868 MHz –LoRaWAN protocol 915 MHz – LoRaWAN protocol
<b>Output power</b>	Up to +14 dBm (configurable)
<b>Range</b>	Up to 5000 m depending on the DR mode used
<b>Transmission period</b>	300 seconds to 24 hours (adjustable value)
<b>Radio frame format</b>	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>
<b>Sensor characteristics</b>	<b>Resolution :</b> 0.0625°C <b>Accuracy :</b> ±0.5°C maximum (0°C to +65°C) ±1°C maximum (-40°C to 0°C and +65°C to +85°C) <b>Transmitted sensor data:</b> temperature in 0.01°C on16 bits.
<b>Parameters &amp; configuration</b>	Interface/protocol : NFC (Type 2)
<b>Remotely configurable parameters</b>	LED activation, LORA class, DR mode, transmit power, standard transmission frequency.
<b>LoRaWAN Network</b>	OTAA activation

**BATTERY**

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

**CERTIFICATIONS**

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

**HOUSING**

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

**ACCESSORIES**

<b>Tag support</b>	Ultra-strong double-sided adhesive: LORA STICKER (ACIOM202)
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**MECANICAL DRAWINGS**

