



LoRa TEMP
Ref. IDF320003



The industrial LoRa tag to monitor temperature on long range distance

- 👁️ Compatibility with public **LoRaWAN** network or **private LoRa network**
- 👁️ Battery life cycle: up to **22 years**
- 👁️ Sturdy industrial casing – **IP68 waterproof**
- 👁️ Integrated **NFC** chip

TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Voltage supply | 3.6 VDC – 2 LS14500 lithium battery replaceable by the user |
| Frequency | 868MHz |
| Operating mode | T format has to be selected for NFC setting Downlink: change in LoRa class (A, C) |
| Transmission power | From 4 to 14 dBm (adjustable value) |
| Transmission period | 60 seconds to 24 hours (adjustable value) |
| Battery life cycle | 22.5 years: one transmission a day at +14dBm 20 years: one transmission every 6 hours at +14dBm |
| Sensors | <ul style="list-style-type: none"> • Temperature on 16 signed bits/ 0,01°C step • Measurement range: -40°C to + 85°C • Precision: <ul style="list-style-type: none"> ▪ ±0.1°C (+25°C) ▪ ±0.25°C (0°C to +65°C) ▪ ±0.5°C (-40°C to +85°C) |
| Radio frame format | 11 bytes frame format, with temperature sensors (2 bytes) |
| Configuration | Interface/Protocol: NFC (type 2) - Device Manager Software |
| Operating temperature | -40°C to +85°C |
| Casing | <ul style="list-style-type: none"> • 119 x 24,5 x 51 mm • 2 fixation holes: øM4 • Waterproofness IP 68 • DELRIN (POM C) Compatible with agri-food products (90/128/EEC) |
| Norms | CE, RADIO: EN 300 220 / EN 300 330 CEM: EN 301 489-3 / EN 301 489-1 Electrical security: EN 60950 / EN 62368 EMF (health): EN 62311 |

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