



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