



LoRa HOME
Ref. IDF320004



The industrial multisensor LoRa tag

- 👁️ Compatibility with public **LoRaWAN** network or **private LoRa network**
- 👁️ Battery life cycle: up to **20 years**
- 👁️ Sturdy industrial casing – **IP65 waterproof**
- 👁️ Integrated **NFC** chip

TECHNICAL SPECIFICATIONS

Voltage supply	3.6 VDC – 2 LS14500 lithium battery replaceable by the user
Frequency	868MHz
Operating mode	<ul style="list-style-type: none"> • «Periodic wake-up» mode: Periodic data transmission on LORA network on a customizable frequency • «Acquisition» mode: data transmission based on changes in magnetic sensors state 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	20 years: one transmission a day at +14dBm 17 years: one transmission every 6 hours at +14dBm
Sensors	<ul style="list-style-type: none"> • Measurement range: <ul style="list-style-type: none"> ▪ Humidity: 0-100% ▪ Temperature: -40°C to +85°C ▪ MAG: 2cm ▪ LUX: 0.01lux to 83k lux • Resolution: <ul style="list-style-type: none"> ▪ Temperature on 16 bits signed / 0,01°C step. ▪ Humidity on 8 non-signed bit / 1 % RH step ▪ MAG: state change counter on 15MSB (non-signed). Current state in the LSB. ▪ LUX: Luminosity on 32 non-signed bits / 0,01 Lux step
Radio frame format	20 bytes frame format, with humidity sensor state (1 byte), temperature sensor state (2 bytes), magnetic sensor state (2 bytes), luminosity sensor state (4 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 65 • 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