

Distributed by:



**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**

<b>Voltage supply</b>	3.6 VDC – 2 LS14500 lithium battery replaceable by the user
<b>Frequency</b>	868MHz
<b>Operating mode</b>	<ul style="list-style-type: none"> <li>• «Periodic wake-up» mode: Periodic data transmission on LORA network on a customizable frequency</li> <li>• «Acquisition» mode: data transmission based on changes in magnetic sensors state</li> </ul> Downlink: change in LoRa class (A, C)
<b>Transmission power</b>	From 4 to 14 dBm (adjustable value)
<b>Transmission period</b>	60 seconds to 24 hours (adjustable value)
<b>Battery life cycle</b>	<b>20 years:</b> one transmission a day at +14dBm <b>17 years:</b> one transmission every 6 hours at +14dBm
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• <b>Measurement range:</b> <ul style="list-style-type: none"> <li>▪ Humidity: 0-100%</li> <li>▪ Temperature: -40°C to +85°C</li> <li>▪ MAG: 2cm</li> <li>▪ LUX: 0.01lux to 83k lux</li> </ul> </li> <li>• <b>Resolution:</b> <ul style="list-style-type: none"> <li>▪ Temperature on 16 bits signed / 0,01°C step.</li> <li>▪ Humidity on 8 non-signed bit / 1 % RH step</li> <li>▪ MAG: state change counter on 15MSB (non-signed). Current state in the LSB.</li> <li>▪ LUX: Luminosity on 32 non-signed bits / 0,01 Lux step</li> </ul> </li> </ul>
<b>Radio frame format</b>	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)
<b>Configuration</b>	Interface/Protocol: NFC (type 2) - Device Manager Software
<b>Operating temperature</b>	-40°C to +85°C
<b>Casing</b>	<ul style="list-style-type: none"> <li>• 119 x 24,5 x 51 mm</li> <li>• 2 fixation holes: øM4</li> <li>• waterproofness IP 65</li> <li>• DELRIN (POM C) Compatible with agri-food products (90/128/EEC)</li> </ul>
<b>Norms</b>	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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