

LR HOME



Multi sensor LoRa tag

EU Version 868MHz : ref. IDF320004B

US Version 915MHz : ref. IDF320008

AU Version 915 MHz: ref IDF320012-beta

BENEFITS

- LoRaWAN certified multi monitoring sensors
- Temperature, humidity, lightness & magnetic sensor
- Battery life : up to 20 years
- Compact and industrial casing – IP65 waterproof
- Integrated NFC chipset



TECHNICAL SPECIFICATIONS

OPERATING MODE

Frequency	868 MHz –LoRaWAN protocol 915 MHz – LoRAWAN protocol
Output power	Up to +14 dBm (configurable)
Range	Up to 5000 m depending on the DR mode used
Transmission period	300 seconds to 24 hours (adjustable value)
Radio frame format	30 bytes frame format including tag name (8 bytes), voltage in mV (2 bytes), temperature sensor data (2 bytes), humidity data (1 byte), lightness data (4 bytes) and the state of the magnetic sensor (2 bytes) * <i>*Refer to the frame specifications for more information.</i>

Sensor characteristics

	Temperature	Humidity	Lightness
Range	-40 to +85 °C	0% to 100%	0.01 lux to 83 k lux
Resolution	0.01 °C	0.01 %	0.01 lux
Accuracy	±0,4 °C maximum	±2,5 % max (0% to 90%) ±3,5 % max (90% to 100%)	10% maximum error

Parameters & configuration

Remotely configurable parameters

Interface/protocol : NFC (Type 2)

LED activation, LORA class, DR mode, transmitted power, standard transmission frequency and motion, reset magnetic detection counter

LoRaWAN Network

OTAA activation

BATTERY

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

CERTIFICATIONS

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

HOUSING

Dimensions	119 x 51 mm – height : 24 mm – 2 fixing holes type M4
Weight	125g
Materials	DELIRIN (POM C)
Waterproofness	IP 65
Operating temperature	-40°C to +85°C

ACCESSORIES

Tag support	Ultra-strong double-sided adhesive: LORA STICKER (ACIOM202)
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MECANICAL DRAWINGS

