

Bluetooth® wireless, waterproof and robust temperature sensor

Equipped with Bluetooth Low Energy technology, the BLUE PUCK T EN12830 temperature sensor is waterproof and robust. 100% autonomous, this Bluetooth temperature sensor adapts to industrial environments to respond to cold chain traceability issues.

The BLUE PUCK T EN12830 is one of the very first temperature sensors on the market to receive the latest EN12830 certification. As this sensor is certified both in terms of its performance and its embedded software, it complies perfectly with the standards for the transport and storage of temperature-sensitive goods.

TECHNICAL SPECIFICATIONS

Operating mode

Frequency : 2,4 GHz - Bluetooth Low Energy 4.0/4.2

Output power: Up to +4 dBm (configurable)

Range: Up to 500 meters open field (+4dBm)

Transmission period: 2 advertising periods can be configured (value between 0,1 and 86400 seconds). Transition from one to another according to configurable sensor threshold.

Radio frame format: ELA ID (15 bytes identifier). ELA T (15 bytes identifier + 2 bytes Temperature (in 0.01°C). Other frame format available on request. Refer to the frames specifications for more informations

Parameters and configuration: Interface/protocol: NFC (Type 2) or Bluetooth connected mode

Connected mode: Download of 4,000 time-stamped temperature values. Battery level command.

Sensors performance: Range: -40 to +85 °C. Resolution: 0,0625 °C. Accuracy: ±0.5°C maximum (-30° to +30°C), ±1°C maximum (-40°C to -30°C & +30°C to +85°C). Calibration: Configurable 3-point calibration coefficients (Polynomial 2nd degree).

Battery

Power supply: 3.6 VDC - Internal lithium battery

Battery life: Up to 18 years* (0 dBm, 10 sec advertising period).

Up to 10 years* (0 dBm, 3 sec advertising period)

Battery level: Low battery warning in advertising frames (<15%).

Battery voltage in scan response frames (configurable).

* Refer to the battery life curves for more information

Certifications

Europe: CE / EN 301 489 & EN 55032 / EN 62368-1 / EN12830 (2018). EN13486 calibration certification on demand

UK: UKCA

RoHs/REACH: Yes

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POSTRACK WIRELESS TEMPERATURE SENSOR

- Approved EN12830 v2018 datalogger certification
- Very high autonomy : up to 18 Years
- High transmission range
- Waterproof (IP68 & IP69K)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period
- BAF compatible depending on configuration

Housing

Dimensions: Ø 57 mm base. Thickness 20 mm

Weight: 41g

Materials: DELRIN (POM C)

Compatible with food products (90/128/EEC)

Waterproofness: IP68 & IP69K

Operating temperature: -40°C to +85°C

DON'T MISS THE OPPORTUNITY

Book a meeting with a Postrack expert today, and we'll help you try Postrack risk-free.

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