

Bluetooth® wireless, waterproof and robust probe temperature sensor

The BLUE PUCK T-PROBE, a Bluetooth temperature sensor meets the challenges of cold chain traceability. This external probe sensor is ideal for extreme industrial environments, such as monitoring the temperature of pharmaceutical products. This temperature logger offers an extra-wide measurement range from -80°C to $+200^{\circ}\text{C}$, and is perfectly suited to the transport and storage of heat-sensitive goods.

To ensure optimum sensor performance, the housing containing the electronic PCB must be installed outside and at a sufficient distance from the cooling unit.

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

Settings and configuration: Interface/protocol : NFC (Type 2)

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

Sensors performance: Range: -80 to $+200^{\circ}\text{C}$. Resolution : 0.1°C .

Accuracy: $\pm 0.5^{\circ}\text{C}$ typical (-30°C to $+60^{\circ}\text{C}$), $\pm 1^{\circ}\text{C}$ typical (-40°C to $+150^{\circ}\text{C}$), $\pm 2^{\circ}\text{C}$ typical (-80°C to $+200^{\circ}\text{C}$).

Calibration: Configurable 3-points calibration coefficients

Calibration in Factory: COFRAC accredited calibration as an option

Battery

Power supply: 3 VDC – Internal lithium battery

Battery life: Up to 14 years*

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

* Refer to the battery life curves for more information

Certifications

Europe: CCE / EN 301 489 & EN 55032 / EN 62368-1, EN12830 (temperature recorders)

UK: UKCA

RoHs/REACH: Yes

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POSTRACK WIRELESS PROBE TEMPERATURE SENSOR

- Approved EN12830 v2018
- Very high autonomy : up to 14 years
- High transmission range
- Waterproof : Casing IP65 / Probe : IP68
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period
- BAF compatible depending on configuration

Housing

Dimensions: $\varnothing$ 57 mm base. Thickness 20 mm. Probe : $\varnothing$ 3 mm – Length 28 mm – M8. Cable : 1 m.

Weight: 63g

Materials: PUCK housing : DELRIN (POM C) Compatible with food products (90/128/EEC). Probe : Stainless steel. Cable : Teflon (1m).

Waterproofness: Housing : IP65. Probe: IP68.

Operating temperature: House: -40°C to $+85^{\circ}\text{C}$.

Probe : -80°C – $+200^{\circ}\text{C}$

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