

## BLUE PUCK T EN12830



Bluetooth Low Energy temperature datalogger

### BENEFITS

- Approved EN12830 v2018 datalogger certification
- Very high autonomy : up to 10 Years
- High transmission range
- Waterproof (IP68)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period



## TECHNICAL SPECIFICATIONS

### OPERATING MODE

<b>Frequency</b>	2,4 GHz - Bluetooth Low Energy 4.0/4.2
<b>Output power</b>	Up to +4 dBm (configurable)
<b>Range</b>	Up to 500 meters open field (+4dBm)
<b>Transmission period</b>	2 advertising periods can be configured (value between 0,1 and 86400 seconds). Transition from one to another according to configurable sensor threshold
<b>Radio frame format</b>	<b>ELA ID</b> (15 bytes identifier) <b>ELA T</b> (15 bytes identifier + 2 bytes Temperature (in 0.01°C))  <i>Other frame format available on request. Refer to the frames specifications for more informations</i>
<b>Parameters and configuration</b>	Interface/protocol: NFC (Type 2) or Bluetooth connected mode
<b>Connected mode</b>	Download of 4,000 time-stamped temperature values LED indicator (ON/OFF) command Battery level command
<b>Sensors performance</b>	<b>Range:</b> -40 to 85 °C <b>Resolution:</b> 0,0625 °C <b>Accuracy:</b> ±0.5°C maximum (0°C to 65 °C); ±1°C maximum (-40°C to 0°C & 65°C to 85°C) <b>Calibration:</b> Configurable 3-point calibration coefficients (Polynomial 2 <sup>nd</sup> degree)

### BATTERY

<b>Power supply</b>	3 VDC - Internal lithium battery
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**Battery life** **Up to 10 years\*** (0 dBm, 3 sec advertising period, 20 sec data logging period, 1 complete (4000 values) datalog download per day)

*\* Refer to the battery life curves for more information*

**Battery level** Low battery warning in advertising frames (<15%)  
Battery voltage in scan response frames (configurable)

**CERTIFICATIONS**

**Europe** CE / UK CA : EN 300 328/ EN 301 489 & EN 55032 / EN 62368-1 EN12830 (2018)

EN13486 calibration certification on demand

**USA** FCC : FCC PART 15

**Canada** ISED : RSS-247 / ICES-003

**RoHs/REACH** Yes

**HOUSING**

**Dimensions** Ø 57 mm base - Thickness 20 mm

**Weight** 41g

**Materials** DELRIN (POM C) Compatible with food products (90/128/EEC)

**Waterproofness** IP 68

**Operating temperature** -40°C to +85°C

**ACCESSORIES**

**Tag support** **Holder + double-sided adhesive:**  
PUCK HOLDER STICKER (ACIOM118B)  
**Holder only:**  
PUCK HOLDER (ACIOM117B)  
**Double-sided adhesive only:**  
PUCK STICKER (ACIOM188)  
3M PT1100 - Ø 55mm – Thickness: 1,1mm

**MECHANICAL DRAWINGS**

