

BLUE PUCK AI



Bluetooth Low Energy Analog Input sensor

BENEFITS

- Integrated 12 bits 0 to 5V ADC
- Very high autonomy: up to 20 years
- High transmission range
- Waterproof (IP65)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period



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 AI (15 bytes identifier + 2 bytes measured voltage (mV))

Other frame format available on request. Refer to the frames specifications for

more informations

Parameters and configuration

Interface/protocol: NFC (Type 2)

Connected mode Datalogger transmission (record of saved sensor measures) /

Battery level

Sensors performance ADC voltage converter:

Range: 0 to 5V, Resolution: 10mV Accuracy: 5%

Input impedance: 20kOhms

BATTERY

Power supply 3 VDC - Internal lithium battery



Battery life Up to 20 years*

* 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

USA FCC: FCC PART 15

Canada ISED: RSS-247 / ICES-003

RoHs/REACH Yes

HOUSING

Dimensions Ø 57 mm base - Thickness 20 mm

Weight 50g

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

Waterproofness IP 65

Operating temperature -40°C to +85°C

ACCESSORIES

Tag support Holder + double-sided adhesive:

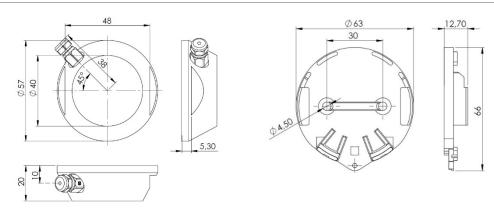
PUCK HOLDER STICKER (ACIOM118B)

Holder only:

PUCK HOLDER (ACIOM117B) **Double-sided adhesive only:**PUCK STICKER (ACIOM188)

3M PT1100 - Ø 55mm - Thickness: 1,1mm

MECHANICAL DRAWINGS



Blue PUCK AI

PUCK HOLDER