Blue PUCK RHT

Bluetooth Low Energy Humidity & Temperature sensor

BENEFITS

- Very high autonomy : up to 18 years
- High transmission range
- Waterproof (IP65)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period
- BAF compatible depending on configuration

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 RHT (15 bytes identifier + 2 bytes Temperature (in 0.01°C)+1 byte Relative Humidity (%))
	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 data) Battery level command

Sensors performance

	Temperature	Humidity (non-condensing)
Range	-40 to 85 ℃	0% to 100%
Resolution	0.01 ℃	0.01 %
Accuracy	±0,4 ℃ maximum	±5 % max

BATTERY

Power supply	3 VDC - Internal lithium battery
Battery life	**Up to 18 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 / EN 301 489 & EN 55032 / EN 62368-1
UK	UKCA
USA	FCC : FCC 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 65 (non-condensing)
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
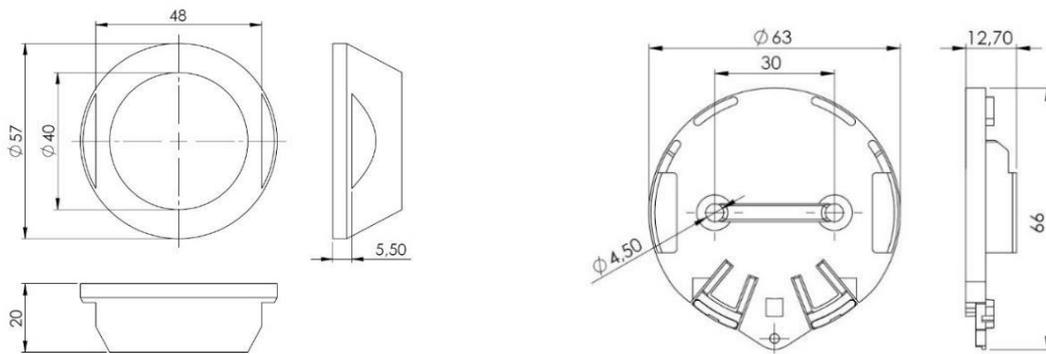
BLUE PUCK RHT   *PUCK HOLDER*

AVAILABLE REFERENCES

Ref	Description
IDF25242-01A	Blue Puck RHT Bluetooth advanced features ready version & IP65