

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



TECHNICAL SPECIFICATIONS

OPERATING MODE

period

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

Output power Up to +4 dBm (configurable)

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

Transmission 3s by default, configurable by user between 0,1s to 10s.

> With BAF (Bluetooth Advanced Feature) option: 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

With BAF option: other frame format available on request. Refer to the frame specifications for

more information

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 °C	0% to 100%
Resolution	0.01 °C	0.01 %
Accuracy	±0,4 °C	5% <rh> 90% measurement error is -2% to +2% if T°<70°C 5% <rh> 90% measurement error is -3% to +3% if T°>70°C Note: the relative humidity accuracy hasn't be assessed for a humidity level lower than 5% or higher than 90%</rh></rh>

Response Time (90% of a step change): 4 minutes



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 / UK CA : EN 300 328/ EN 301 489 & EN 55032 / EN 62368-1

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 -40°C to +85°C

temperature ACCESSORIES

Tag support Holder + double-sided adhesive:

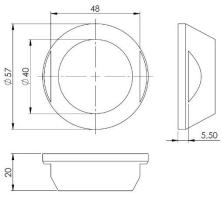
PUCK HOLDER STICKER (ACIOM118B)

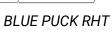
Holder only:

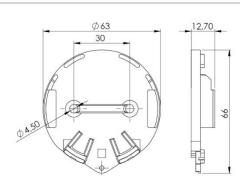
PUCK HOLDER (ACIOM117B) **Double-sided adhesive only:**PUCK STICKER (ACIOM188)

3M PT1100 - Ø 55mm - Thickness: 1,1mm

MECHANICAL DRAWINGS







PUCK HOLDER