TAGMATIKS™

TAG-S-2

TEMPERATURE + HUMIDITY

Dual Frequency RAIN/NFC Data Logger Tag

Overview

TagMatiks (TAG-S-2) is a low cost, semi-passive NFC/RAIN RFID temperature and humidity logger that allows to monitor temperature and humidity sensitive products. The combination of the high resolution sensor, the large memory size and the standard NFC/RAIN RFID interfaces permit to realize effective track and trace solutions for the cold-chain.

The RAIN RFID interface is ideal for reading temperature data or alarms from distance allowing automated check-points on conveyors or through dock doors. The NFC interface permits a very easy interaction with any NFC enabled smartphone allowing the consumer to check the good condition at home.

TagMatiks (TAG-S-2) can be configured to store temperature and humidity samples in intervals from 5 second to 18 hours in the internal memory that can contain up to 4,096 samples. The user can define up to 16 temperature ranges with independent threshold alarms for a very accurate control of the temperature excursions.

The rugged enclosure and the compact size permit to use the logger in various applications and the passive radiofrequency behavior does not prevent air shipments.

TagMatiks (TAG-S-2) RFID logger can be used for multiple shipments thanks to the long battery life and the reset function allowing to reduce the total cost of a single monitored shipment and anticipate the ROI of the solution.

Features

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) interface

- NFC ISO 14443 Type A interface

- High temperature and time accuracy

- Fast samples download

- Configurable alarms

- Configurable sampling interval

- Long monitoring time span

Applications

- Fresh food

- Seafood

- Meat and poultry

- Milk based products

- Frozen food

- Pharmaceuticals

- Special chemical products

- Clinical trials

Technical Specifications

Frequency Range
-NFC/HF: 13.56 MHz
-RAIN/UHF: 860-930 MHz

RFID Protocols
-NFC/RFID ISO 14443 Type A Interface
-RAIN : EPC Class 1 Gen 2 - ISO18000-63

Tag Type
Semipassive

Data Points
Up to 4096 samples

Temperature Operating Range
-30 °C to +70 °C

Temperature Accuracy
±0.5 °C

Humidity Range
0 to 100% relative humidity range

Humidity Accuracy
± 3.5% rH, 20 to +80% rH

Monitoring Time Span
Up to 5 years

Time Accuracy
<0.02% error (typical))

Read Range
- NFC/HF: up to 5 cm.
- RAIN/UHF: up to 5 mt. In free air @ 2W ERP

Available Memory
Up to 160 bits in EPC memory bank and up to 448 bits available for user

Battery Life
1 year typical (depending on usage and operating temperature)

Battery Type
Li/MnO2 Model Renata CR2430SN

Monitoring Delay Option
Up to 18 hours

Enclosure Material
ABS

IP rating
IP68

Weight
35 g.

Features
- Multiple configurable sampling interval

- Temperature histogram function

- Configuration and start accessible both from NFC and RAIN interface

- Samples download accessible both from NFC and RAIN interface

- User accessible memory shared between NFC and RAIN

Dimensions
- (W)92 x (L)63 x (H)6.5 mm 3 max.
- 3.62 x 2.48 x 0.25 inches

Alarms
- Multiple configurable high and low temperature thresholds

- Estimated Time of Arrival

- Battery Level

TAGMATIKS™

NEED HELP WITH YOUR SOLUTION OR MORE DETAILS? CONTACT US!

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