A927ZET
Rugged
Semi-Passive RAIN RFID
Temperature Logger
with external probe

Features

- **RAIN (UHF EPC Class1 Gen2 ISO 18000-63) Interface**
- **High temperature accuracy**
- **Fast download samples**
- **Long monitoring time span**

Applications

- **Fresh Food**
- **Seafood**
- **Meat and Poultry**
- **Milk Based Products**
- **Frozen Food**
- **Chemical/Pharmaceutical Products**

General Info

CAEN RFID easy2log© A927ZET is a low cost, semi-passive RAIN RFID logger tag that allows to monitor temperature sensitive products like perishable foods and pharmaceuticals during transportation and storage. The combination of the high resolution sensor, the large memory size and the standard RFID interface permits to realize effective track and trace solutions for the cold-chain.

The A927ZET can be used with standard RAIN RFID readers available on the market without requiring any additional equipment.

The tag has both an internal and an external temperature sensor, each one can be configured to store temperature samples in intervals from 8 second to 18 hours in the internal memory that can contain up to 4,096 samples per sensor. For each sensor the user can define alarms for high and low temperature thresholds for an accurate control of the temperature excursions.

The rugged enclosure of this logger make it the perfect choice for the cold-chain monitoring in harsh environment or in presence of strong vibration while the external sensor probe allows to monitor the internal and the external temperature of a box.

The A927ZET RFID logger can be used for multiple shipments thanks to the long battery life and the reset function thus allowing to reduce the total cost of the solution and anticipate the ROI.

easy2log

- Embedded Readers
- Mobile Readers
- Integrated Readers
- Fixed Readers
- Temperature Loggers

easy2log© product line

The easy2log© product family is the ideal portfolio of RAIN RFID loggers to monitor temperature-sensitive products during shipment and storage. Especially indicated for food and pharmaceuticals, easy2log© RAIN RFID loggers are well suited also for chemical and special industrial products.

Technical Specifications Table

Tag Type	Semipassive
Standard Compliance	EPC C1G2/ISO 18000-63
Reserved Memory Size	512 bit
EPC Memory Size	512 bit
TID Memory Size	208 bit
Reserved Memory Size	512 bit
User Memory Size	17522 byte
Access Control	yes
Memory Retention	100 years
Memory Endurance	10000 cycles
Read Range	10m in air (2.5m on metal) @ 2W ERP
Frequency Range	860 MHz ÷ 928 MHz
Write Time	100 µsec
Alarms	User-configurable high temperature and low temperature alarms
Battery Life	3 years typical (depending on usage and operating temperature)
Battery Type	Li / MnO2 Model Renata CR 2450N
Operating Temperature (int)	-30°C to +70°C
Storage Temperature (int)	-40°C to +85°C
Absolute Temperature Range (int)	-40°C to +70°C
Operating Temperature (ext)	-20°C to +70°C
Storage Temperature (ext)	-40°C to +85°C
Absolute Temperature Range (int)	-20°C to +70°C
Temperature Resolution	±0.1°C
IP rating	IP67
Dimensions	(L) 130.4 x (W) 23.4 x (H) 12.7 mm³ (probe excluded)
Probe Length	50 cm
Weight	48 g

Ordering Options

Code	Description
WA927ZETAAAA	A927 - Temperature logger with external probe UHF semi-passive tag(EPC C1G2) Std