

This UHF semi-passive temperature logger tag allows for monitoring temperature sensitive products during transportation or storage.

This temperature logging is an ideal tracking solution for recording temperatures of sensitive food products and chemical/pharmaceutical products during transportation and storage. This UHF RFID tag is compliant to the EPC Class1 Gen 2/ISO18000-6C standards and can be used with most Gen 2 UHF RFID readers. The logger provides a large memory capacity of up to 8000 temperature samples with programmable sampling times. Once programmed, the tag will monitor the temperature sensitive products and trigger an alert if the temperature falls outside of the set boundaries.



Key Features

- ✓ EPC C1G2 (ISO18000-6C) Compliant
- ✓ Frequency range: 860 MHz to 928 MHz
- ✓ Read range: approx. 10 m in air (2.5 m on metal) @ 2 W ERP
- ✓ Unique ID plus long EPC code (512 bit)
- ✓ Memory capacity: 8000 samples (16 kB)
- ✓ Programmable sampling interval
- ✓ Programmable temperature thresholds
- ✓ Battery life: 3 to 5 years
- ✓ No calibration required
- ✓ Battery charge measurement through RF
- ✓ ± 0.1 °C Accuracy (typical)

Technical Specifications

Tag type	Semi-passive
Frequency	860 MHz to 930 MHz
Read range	10 m
Write range	10 m
Write time	100 µsec
Accuracy	±0.1 °C (type); ±0.75 °C (max)
Logging memory size	8192 samples
Temperature sensor resolution	16 bit
Environment rating	IP65
Memory endurance	10000 cycles
Memory retention	100 years
User memory size	17484 byte
Reserved memory size	512 bit
TID memory size	208 bit
EPC memory size	512 bit
Access control	yes
Dimensions	130.4 mm x 23.4 mm x 12.7 mm
Operating temperature	-20 °C to 70 °C
Storage temperature	-20 °C to 70 °C



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