



RF TS01EP semi passive UHF Tag Temperature Logger (2 sensors 1 ext. Probe)



DATASHEET

Product name	RF TS01EP
Product Description	Semi Passive UHF Temperatur Logger TS 01 EP
<p>This product family is the ideal portfolio of RFID enabled loggers for temperature-sensitive products that may be damaged when exposed to improper temperature ranges during shipment and storage. Especially indicated for food and pharmaceuticals, the RFID loggers are well suited also for chemicals and special industrial products. The TS01 EP has 2 sensors !</p> <p>Temperature loggers enable a new era of Cold Chain Management Solutions. Track & Trace solutions based on EPCGlobal UHF RFID standards can be combined with environmental monitoring and shelf life prediction capabilities. tags can be read and configured using a standard EPCGlobal compliant RFID reader without the needs of special commands or devices.</p>	
Electrical Characteristics	
Device type	Class 1 Generation 2 passive UHF RFID transponder
Air interface protocol	EPCGlobal Class1 Gen2 ISO 18000-6C
Operating Frequency	860 MHz - 930 MHz
Data points	up to 4096
Sensing interval	8 seconds to 18 hours, programmable
Memory Size	Up to 512 bits in EPC bank, up to 512 bits in User Memory bank
Alarms	User-configurable high temperature and low temperature alarms
Thermal & Environmental Characteristics	
Temperature accuracy	±0.1°C typical, ±0.75°C maximum
Operating Temperature	-20°C up to +70°C (normal range) -40°C up to +85°C (extended range)
IP classification	IP67
RoHs Compliance	YES
Physical Characteristics	
Available Shape	135x23x11 mm (probe excluded)
Probe length	50 cm
Read range	approx. 4 m in air @ 2W ERP
Battery life	Up to 3 years normal version Up to 5 years extended version
Weight	48gr
Article no:	RF TS01EP
Typical Applications	
Warehouse temperature monitoring	Industrial machines monitoring
Monitor vacant commercial property	Heat remediation of bed bugs (extermination)
Summer/winter (vacation) property monitoring	Freezer and cooler temperature monitoring
HVAC system monitoring	Server room temperature monitoring
Cadaver storage cooler temperature monitoring	Greenhouse temperature monitoring



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