DLR-TLOO1

DATALOGIC



RFID TEMPERATURE LOGGER

The DLR-TL001 logger is a low cost, semi-passive UHF logger tag used 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 of the temperature logger allows perishable items to be effectively tracked and traced during transportation and delivery.

Because of its compatibility with the EPC Global Class 1 Gen 2 and ISO18000-6C standards, the DLR-TL001 logger can be used with standard UHF RFID readers without requiring any additional equipment.

CONTROLLABLE CONFIGURATION

The tag can be configured to store temperature samples in intervals from 1 second to 18 hours in the internal memory, which can contain up to 3,958 samples. The user can define up to 16 temperature ranges with independent threshold alarms for very accurate control of the temperature excursions. The tag can be controlled either by using a button or via standard RFID commands.

The tag is also able to calculate the Mean Kinetic Temperature and the user configurable remaining shelf life time as well as generate alarms in case the parameters exceed user defined thresholds.

The DLR-TL001 logger can be used for multiple shipments because of its long battery life and the reset function, thus allowing the user to reduce the total cost of the solution.





FEATURES

- High temperature accuracy
- Fast download of samples
- Button and LED for fast inspection
- Long monitoring time spanEPC Class 1 Gen 2 RFID interface

INDUSTRY-APPLICATIONS

- Fresh food
- Seafood
- Meat and poultry
- Milk-based products
- Frozen food
- Chemical/pharmaceutical products

DLR-TLOO1

OIDOJATACO

CORDLESS COMMUNICATIONS		PHYSICAL CHARACTERISTICS	
FREQUENCY RANGE	860 MHz - 928 MHz	DIMENSIONS WEIGHT	10.7 x 10.7 x 0.87 cm ³ / 4.2 x 4.2 x 0.3 in ³ 31.0 g / 1.0 oz
RFID DECODING CAPABILITY		ENCLOSURE MATERIAL	85.0 g / 3.0 oz PVC Tecnovil
STANDARDS SUPPORTED	EPC Global C1G2 and ISO 18000-6C Compliant	TAG TYPE	Semi-passive
ELECTRICAL		READING PERFORMANCE	
BATTERY TYPE BATTERY LIFE	Li / MnO2 Model Renata CR 2450N 1 year (typical - depending on usage and	MEMORY CAPACITY AVAILABLE MEMORY	4,000 samples (8 KB) Up to 512 bits in EPC bank, up to 512 bits in Use
	operating temperature)	MONITORING DELAY OPTION	Memory bank Up to 18 hours
ENVIRONMENTAL			
ESD PROTECTION	16 kV	READING RANGES	
PARTICULATE AND WATER SEALING TEMPERATURE	IP67 Operating Range: -20 to 70 °C / 14 to 131 °F	READING RANGE	Approximately 8.0 m / 26.2 ft in air @ 2W ERP
SHELF LIFE PREDICTION	Accuracy: +/- 0.5 °C / 32 °F typical Calculations based on Arrhenius kinetic model	SAFETY & REGULATORY	
SHELF LIFE MONITORING	with customer designation of time/temperature dependency Provides Remaining Shelf Life information at check points with RFID readers or manual interface	MONITORING TIME SPAN TIME ACCURACY ALARMS	Up to 5 years <0.01% error Multiple user-configurable High Temperature and Low Temperature alarms; ETA alarm; MKT alarm; Shelf Life alarm; Low Battery alarn
INTERFACES		UTILITIES	
RFID INTERFACE	UHF EPC Class 1 Gen2/ISO; 18000-6C compatible	DL RFID SOFTWARE TOOL	RFID configurations tools are available for download
		WARRANTY	

WARRANTY

3-Month Factory Warranty

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