

CONVERGENCE SYSTEMS LIMITED

CS8300 Temperature Sensor Tag



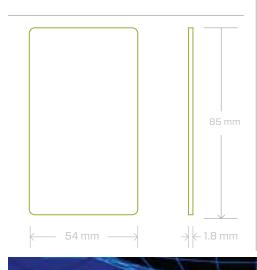
Product Features

Cold Chain temperature monitoring at the carton and item level.

Consistent and reliable read performance when being placed on products with high water content under low temperature.

Programmable temperature thresholds and sampling rates, ranging from -24C to 64°C at 0.25°C resolution.

Compliant with EPC Gen 2 readers and can be used for product identification.



The high costs of existing temperature logging tags make deployment down to the carton-level economically difficult. The CS8300 provides a low-cost solution for cold chain monitoring applications that will enable affordable options for users. In addition, the CS8300 slim profile and light weight is beneficial for cold chain tracking at the carton and item level. The CS8300 gives longer read range, longer battery life, and lower unit cost than other RFID temperature tracking tags. Moreover, CS8300 is fully EPC Class 3 Gen 2 compliant and can be read by any Gen 2 compliant reader.

Applications

Cold Chain Management Temperature Data Logging Food Inspections Cold Storage Rooms Product Authentication	Quality Control Recall Management Cold Chain Transportation Temperature Controlled Pharmaceuticals	Living Organic Materials Floral Management Industrial Composites and Chemicals Tracking	
Dimensions	85 x 54 x 1.8 mm (3.34 x	85 x 54 x 1.8 mm (3.34 x 2.12 x 0.08 in)	
Memory	352bit EPC, 48bit UID, 3	352bit EPC, 48bit UID, 3072bit User Memory	
Operating Temperature	-24°C to 64°C (-11°F to 147°F)		
Temperature Accuracy	+/- 0.5°C		
Temperature Resolution	0.25°C		
Mode of Operation	Battery–Assisted Passive (BAP) EPC Class 3 Gen 2		
Operating Frequency	860 to 960 MHz		
Battery Type	Lithium battery		
Battery Life	Based on options and us	Based on options and usage scenarios	
Sampling Interval	User configurable betwe	User configurable between 1 second to 2.5 days	
Alarm	Under Temperature, Over	Under Temperature, Over Temperature, Low Battery	
Data Retention	> 10 years @ 55°C	>10 years @ 55°C	
IP Rating	IP 68	IP 68	
Country Version		CS8300-1, optimized for 866 to 868 MHz CS8300-2, optimized for 902 to 928 MHz	

Contact us at sales@csl-rfid.com or visit our website at www.CSL-RFID.com