PowerTMP Temperature Sensing Tags

Practical Cold Chain Monitoring

PowerTMP tag enables near real time cold chain monitoring at the pallet or container level at low cost

PowerTMP Temperature Sensing Tags - Operating Concept

PowerTMP temperature sensor tag revolutionizes cold chain visibility. Cold chain managers can now monitor perishables in near real time, at the pallet or container level at low cost. PowerTMP complies with the ISO 18000-6C standard, enabling supply chain managers to make use of existing EPCglobal Class 1, Generation 2 and ISO 18000-6C infrastructure.

A PowerTMP tag is consisted of a RFID chip, battery, antenna and temperature sensor at low cost. When in actual use, PowerTMP analyses the temperature and time and generates a warning sign when the temperature is out of range. This sign is then reflected to the RFID reader with the EPC code of the tag. And the out-of-range temperature values and time records are stored in nonvolatile memory for further analysis.

PowerTMP series include two configurations for different needs: PowerTMP SL and PowerTMP ML. PowerTMP SL provides one out-of-range event record and PowerTMP ML provides over 500 out-of-range event records. Users can select according to their actual needs and budgets.

Compatible with existing systems, PowerTMP complies with the 18000-6C protocol as well as simple sensor rules, which allows companies to use existing systems that are compliant with EPCglobal Class 1 Gen 2 without additional hardware costs.

PowerTMP provides the following benefits:

- Low-cost PowerTMP Supported by existing infrastructure: PowerTMP conforms with the ISO 18000-6C standard, allowing companies to make use of EPCglobal Class 1, Gen. 2 infrastructure.

- Simplicity: PowerTMP stores exception events according to pre-defined temperature values and can alert cold chain managers in near real time.

- Near real time monitoring: Cold chain managers can access information on out-of-range events as their goods move through the supply chain, allowing them to make decisions rapidly.

- High read ranges and reliability: A battery on board the PowerTMP label powers the sensor and enables high read ranges and reliability in challenging cold chain environments.

DilinxRFID

Connecting the Internet-of-Things

About DilinxRFID

With the exclusive partnership with PowerID and Power Paper, DilinxRFID
incorporates the world-leading Battery-Assisted Passive ("BAP") and Printed Battery Passive ("PAP") technologies into a new generation of RFID tags. Our target applications include: Personnel Tracking, Container Tracking, Cold Chain for food and medicines, and general logistics in challenging environments.

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