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## Zebra Temperature Monitoring and Sensing Solutions — Monitoring Devices and Integrated Solutions for Medication Shipments, Storage, and Pharmacy Facilities

Providing the devices and information to accurately monitor temperature sensitive medications, indicating if they have been exposed to temperature events that could impact their effectiveness in treating patients.

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### Company Background

Zebra empowers organizations to thrive in the on-demand economy by making every front-line worker and asset at the edge visible, connected and fully optimized. With an ecosystem of more than 10,000 partners across more than 100 countries, Zebra serves customers of all sizes — including 94% of the Fortune 100 — with an award-winning portfolio of hardware, software, services, and solutions that digitize and automate workflows. Supply chains are more dynamic, customers and patients are better served, and workers are more engaged when they utilize Zebra innovations that help them sense, analyze, and act in real time. In 2021, Zebra expanded its industrial automation portfolio with its Fetch Robotics acquisition and increased its machine vision and AI software capabilities with the acquisitions of Adaptive Vision and antuit.ai.

### Product Overview

Zebra's portfolio of solutions includes: specialty printing and supplies, barcode scanning, mobile computing and rugged tablets, RFID and real-time location systems (RTLS), intelligent workforce management and execution solutions, data services and prescriptive analytics, support, managed and professional services, intelligent automation systems, and temperature monitoring and sensing solutions. Our comprehensive temperature monitoring and sensing portfolio, manufactured by Temptime, meets the cold chain needs of specialty pharmacies and their patients. This portfolio includes:

- Visual, low-cost, chemically-based heat and freeze indicators for blood products, vaccines, biologics, and other medication during storage.
- Heat and freeze indicators for monitoring medication during shipment.
- Sophisticated electronic, wireless temperature and humidity monitoring systems with cloud-based data storage and sharing.

Zebra is striving to improve supply chain efficiency, global health, and patient care through the effective deployment of devices and solutions that identify temperature excursions and provide information so that action can be taken.

### Product Specifications

#### ■ Wireless Monitoring Systems

The family of wireless Bluetooth®-enabled sensors monitor and record temperature data 24 hours a day, seven days a week.

The W-200 is designed for facilities and warehouses, monitoring both temperature and humidity in medication storage areas to help with accreditation compliance and regulatory requirements. Data can be accessed remotely using a web-based application and customized alerts notify users instantly if any areas have exceeded temperature limits.

The M-300 and S-400 programmable dataloggers are ideal for monitoring temperatures during transport or storage, letting users:

- View and share temperature data with a free mobile app.
- Customize alarm limits, datalogging intervals, startup options, and more.
- Store unlimited data on the cloud and generate reports with a complementary web app.

#### ■ Package Performance Qualification Testing

For specialty pharmacies, package performance qualification (PPQ) testing ensures that the shipment packaging is able to provide the necessary temperature range for the required period of time during transport of critical and often lifesaving medications to patients. More than that, PPQ testing is also required for certain pharmacy accreditations, such as URAC.

These wireless monitoring devices help specialty pharmacies simplify PPQ testing while providing data and information to optimize pack-outs. Customized third-party PPQ testing services also help meet the requirements of pharmacy networks that make third-party validation testing a condition of participation.

#### ■ TransTracker® Shipment Indicators

TransTracker® visual temperature indicators monitor medication heat and freeze events during shipment. They are simple to read and understand, so patients can tell at a glance if medication has been handled within the appropriate temperature range. These devices instill a higher level of patient confidence so that unnecessary, costly reshipments due to suspected temperature damage can be reduced or eliminated. These cost-effective, single-use indicators also help specialty pharmacies comply with state regulations.



### Testimonial

*97% of medication recipients said they prefer a specialty pharmacy that uses the TransTracker® indicator in its shipments.\**

\* Based on "Experience of Specialty Pharmacies in TransTracker Product-in-Use Patient Research" with over 8,000 patient responses.