

All-in-One Identify and Monitor Thermal Printable Solution

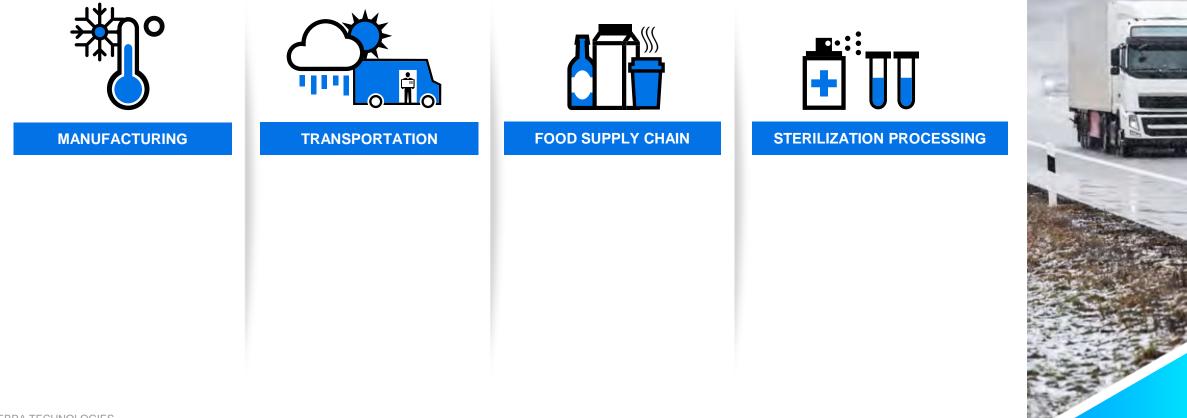
ZEBRA

Meet the Indicator that makes a label tell more



Zebra_ZeOn-Demand-Indicators-CFP-UMD.001

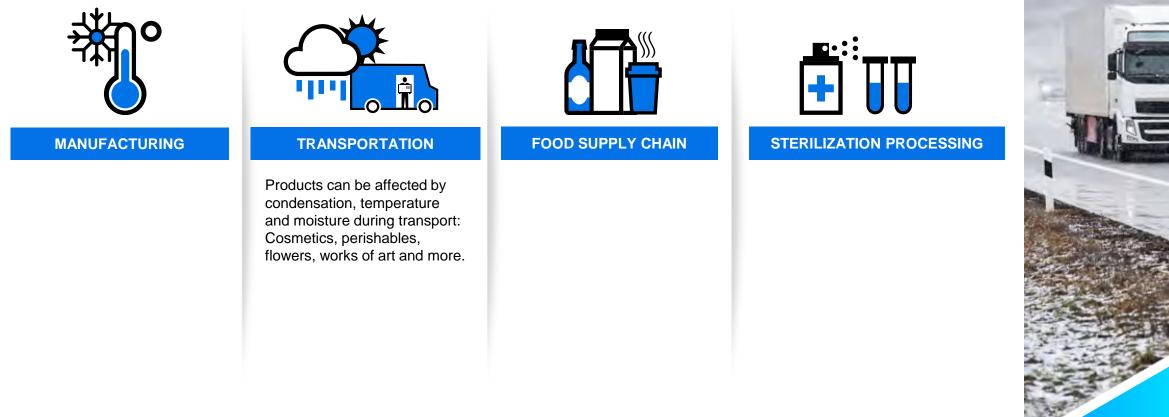
How unchecked environmental conditions can raise havoc in the supply chain



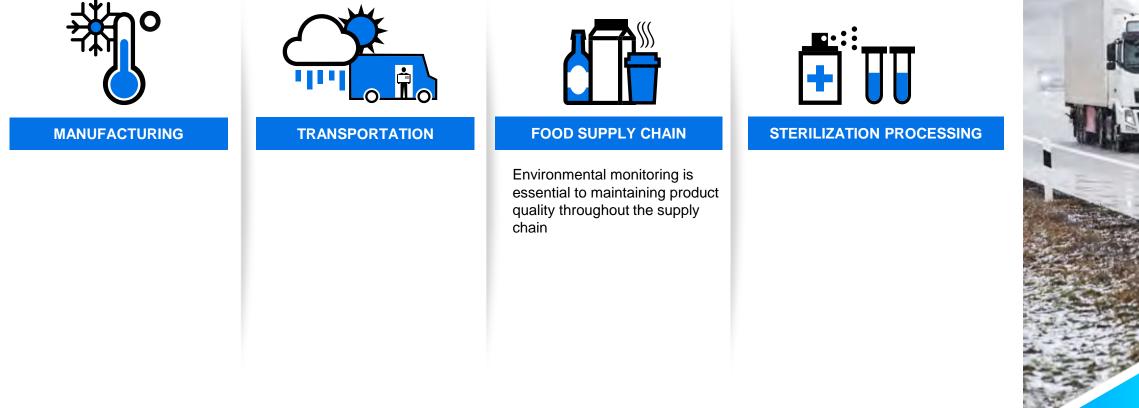
How unchecked environmental conditions can raise havoc in the supply chain



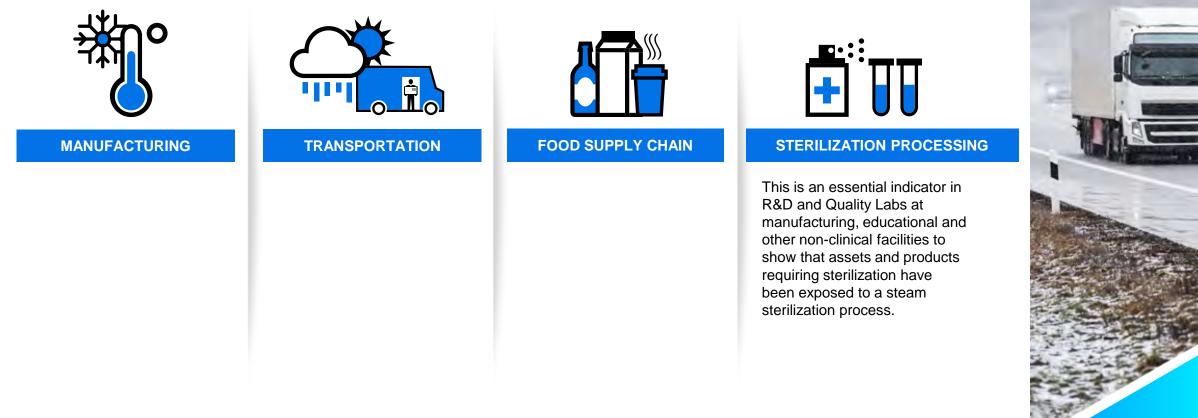
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Challenges and Concerns Along the Chain Industries need to consider many variables and overcome many challenges to get their products from point of origin to destination



Introducing ZeOn-demand Printable Indicators

Environmental Exposure Revealed with a Simple Visual An all-in-one solution that delivers more insights into sensitive assets, their quality processes and their workflows

Temperature	Humidity/Moisture	Sterilization
Viscous CEBRA Viscous CEBRA Permanent High Temperature Indicator Viscous CEBRA Viscous CEBRA Manufacture Date: YYYY/MM/DD	Humidity Indicator: When "Exercises Hen" is charafy shareyed above, charaf like Sectored Data VYVV449421	ZEBRA Sterilization Date: YYYY/MM/DD
View area view to filled with Permanent High Temperature Indicator Week area view to filled with magnetic dride, while they with great to be a set of the set of	Humidity Indicator: When "Examine there" is clearly abserved above, check item SCOREBRA SSO	PROCESSED ZEBRA

Printable Environmental Sensors The single solution that does it all

Permanent High Humidity/Moisture Sensor

Permanent High Temperature/Irreversible Sensor







Environmental Sensing Ink on Zebra Thermal Transfer Media Media Customization using Zebra Printer Media Sensing High Humidity/Water Exposure Environmental Sensing Ink on Zebra Thermal Transfer Media

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Media Customization using Zebra Printer



Media Sensing High Temperature Exposure



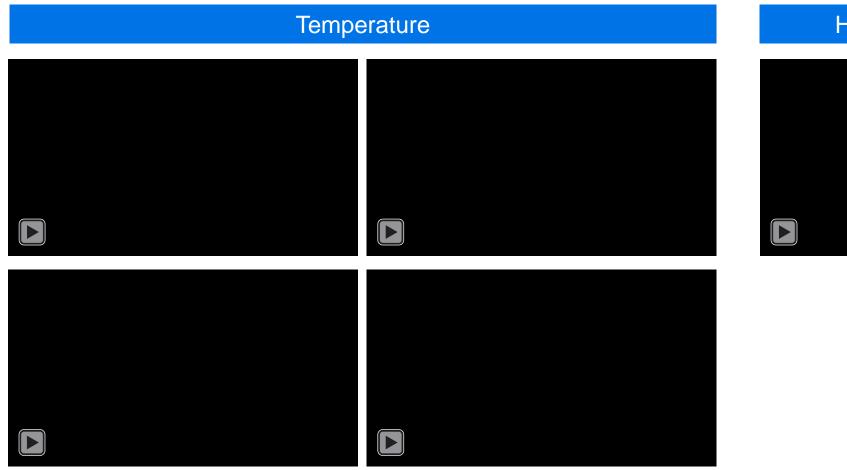
Sensor Functionality in Action

These short animations offer a preview of the new capabilities Zebra has developed

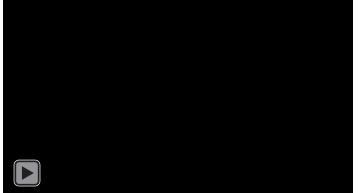


Sensor Functionality in Action

These short prototype sample videos offer a preview of the new capabilities Zebra has developed



Humidity/Moisture



How to Customize a Solution

Potential combinations of printable indicators

Type of indicator profile: Reversible or irreversible

Indicator color: It will vary slightly depending on the thermal media it is combined with

Indicator reaction time: Time it takes for indicator to reach end point

Acceptable deviation from temperature or humidity spec



Environmental condition to be monitored: Temperature, humidity, sterilization process, etc.

Indicator color: Choose from red, green, magenta, orange; can be colorless to color or light color to dark colors

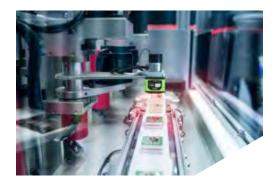
Reference color: Enables user to know when color fully developed, and it has reached its end point

Pre-test printable indicator in the target application to ensure solution meets all intended requirements.

Applications Across Many Industries

Printable indicators can be easily integrated into preexisting workflows

Unnoticed fluctuations in environmental conditions of individual products during processing and transport could translate into big, expensive problems.



Manufacturing

High-heat processing; temperature and humidity monitoring of parts and components



Food Supply Chain

Environmental monitoring is essential to maintaining product quality throughout the supply chain





Transportation and Logistics (T&L)

Temperature and humidity control transporting products from any sector

Sterilization Processing

Indicates the product has been exposed to a steam sterilization process

ZeOn-demand Printable Indicators

Gain visibility into product environmental exposure, combined with the accuracy and traceability of print on demand



Empower frontline workers

Give personnel clear visual clues when verifying asset conditions so they can take immediate action when needed

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Streamline workflows

Printable indicators enable you to gain more insight without adding steps to your processes



Lower your costs

This all-in-one solution eliminates the need for separate inventories of environmental indicators and thermal labels



Reduce waste

Effectively monitor the environmental parameters of all types of products that can be adversely affected by temperature or humidity excursions

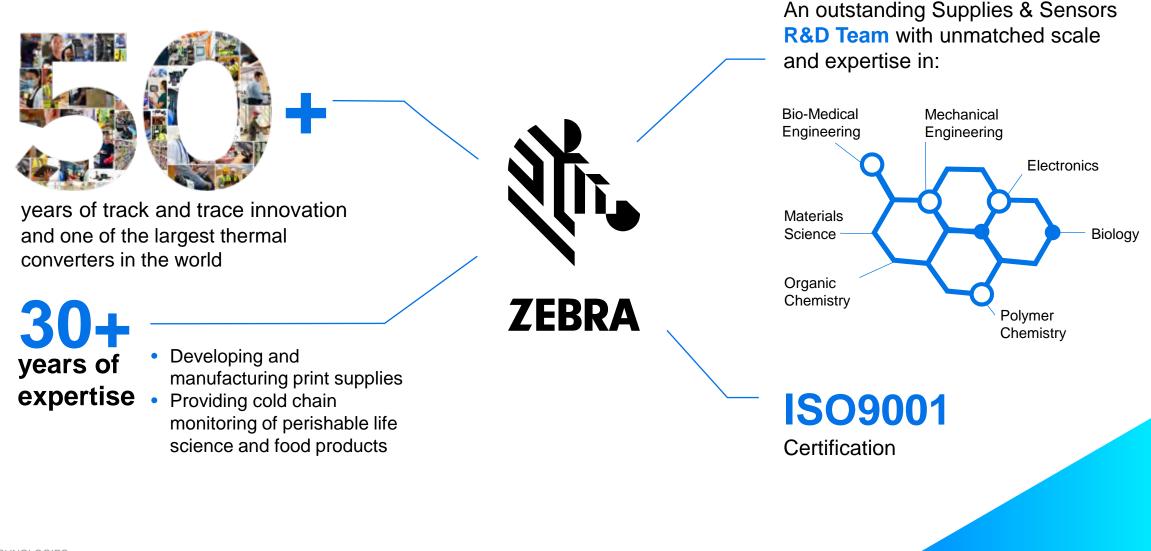


Improve quality and accuracy

Avoid parsing hard-to-read handwritten labels and maintain more accurate records with these printable indicators

Why Trust Zebra

Unparalleled industry experience



ZEBRA TECHNOLOGIES

UMD Value Add

Engineering IoT Solutions



[‡]☆ Design

Design & manufacture:

- IoT devices and interfaces
- Cables
- Modify products
- Mechanical design and assemble

Support

Through our extensive professional services in

- Engineering
- Software
- Deployment
- Support

X Source

- Data capture & ICT products and from our many agencies
- Systems Integration
- Solutions Architecture
- Systems Engineering



Encompassing

- Data Carriers (barcode, RFID, sensors)
- Edge devices and gateways
- Own and manage PCI-DSS compliant Data Center
- Middleware and Cloud Application Broker
- Software: cloud, mobile and embedded applications
- Design, deploy and managed services





Enhance Supply Chain Visibility with Zebra & UMD

Asset Identification and Environmental Insights in One Single Solution

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