

## ShockWatch® TrekView® Wireless Temperature Recorder for Pharmaceutical / Biopharmaceutical Market



*A revolutionary system that puts cold chain visibility at your fingertips*

TrekView is a breakthrough in cold chain risk mitigation. Without violating the integrity of your product's packaging, you can now measure, analyze, document and confirm that the temperature was within acceptable tolerances throughout transit and storage.

## INTRODUCING TREKVIEW

Now you can ship your temperature-sensitive product with maximum confidence that unacceptable temperature conditions will be recorded allowing informed decisions to be made regarding potential product quality issues.

### Protect Your Bottom Line

TrekView is an innovative, cost-effective cold chain monitoring device that records exposure to unacceptable temperatures which could negatively affect product quality. With the TrekView, you have the information you need to make changes to your storage, transport or handling processes which can result in reduced product loss and an improved bottom line.

#### Cost effective and smaller than a credit card

Common temperature recorders are fragile and bulky. Not TrekView. Simply place the durable 5.8 cm<sup>2</sup> recorder alongside your product. TrekView is designed to easily slide into your existing temperature control packaging. Data can be accessed without the need to open the shipment to retrieve the temperature data, eliminating the need for repackaging or working around the recorder for you package design. And you can use the TrekView repeatedly for up to three years.

#### Maintain the integrity of validate packaging

You went to the effort of using validated packaging so why compromise packaging effectiveness by opening the container to make temperature measurements. TrekView offers an optional ribbon cable for monitoring product temperatures inside validated packaging. The packaging remains intact throughout the journey but valuable temperature data can be verified at any point in the cold chain.

#### Increase your cold chain visibility

TrekView has up to eight temperature thresholds and records those temperatures every 60 seconds for up to three years. Data is easily downloaded using the built-in RF antenna or a USB connection. Windows-based reporting

and analysis software provides a record of the device state and configuration, time/temperature profile, temperature distribution, and tag excursions to support cold chain validation from the first mile to last.

#### Customize TrekView to meet your specifications

TrekView software allows users to program logging intervals and up to eight temperature thresholds to meet your specific requirements. Set out of tolerance temperature conditions based on a single event or cumulative exposure. See the end of journey report in the format that best serves your purpose – a one-page summary, easy to interpret charts and graphs, and full logged data reports.

#### Rely on the highest quality and dependability

ShockWatch is an ISO 9001-2008 company and as a global leader in supply chain damage prevention programs, ShockWatch submits its systems to an ISO/IEC 17025 accredited organization for testing and inspection on equipment that is calibrated to NIST standards. This process ensures that TrekView and other ShockWatch cold chain systems meet compliance standards set by the pharmaceutical industry.

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## Custom Solutions to Cold Chain Challenges

In cold chain risk mitigation, one size does not fit all. If you need to optimize the performance of your cold chain to reduce shipping costs, improve customer satisfaction, and protect your bottom line from product losses, ShockWatch can provide a custom solution.

### Lane mapping, warehouse mapping and risk mitigation

A shared concern from customers relates to product loss during cold chain transit, but data provided by current monitoring tools may be insufficient to isolate the problem. Through partnership with your company, ShockWatch can set up a test program with your logistics and QA teams to custom design a TrekView program that quickly and precisely identifies where the costly problems are occurring, enabling you to assign accountability via “chain of custody” and fix the problem.

### Reduce packaging and shipping costs

Every minute of delay from opening packaging and measuring temperature results costs you money. Package redesign to accommodate large, bulky data recorders adds to costs and shipping weight that eat away at your bottom line. Protect your margins by using the rugged, reliable and compact TrekView wireless temperature monitoring system to capture data without having to redesign your product’s existing packaging material, open the packaging to take data readings or worry about excess weight that may add to shipping costs.

### Complete visibility from the first mile to the last

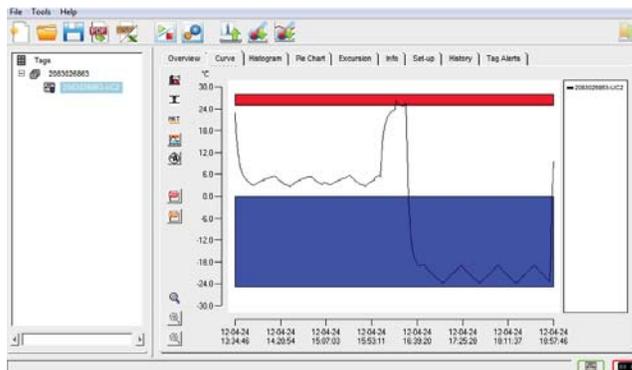
While your objective may be obvious (reduce loss, test your packaging or evaluate your shipping lanes), the solution may not be. Solving your problem may be a matter of redesigned packaging, but it also may be as obvious as deterring mishandling by employees and shippers through assigning accountability. And, while any combination of these methods may be effective, they may also be overwhelming and not cost effective. The question is where to start? Knowing how and when temperature excursions occur allows you to correct the problem, minimize the risks, and even assign accountability to the incident via the “Chain of Custody”. TrekView allows you to have visibility throughout your entire supply chain to give you the information you need to make the right decision.

## Powerful Information but Easy to Use & Train

**Multiple data download methods and free software included for end-of-journey reporting**

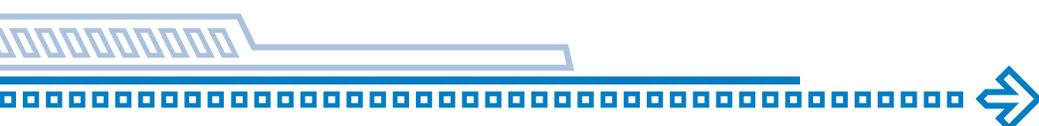
Temperature data can be downloaded using multiple methods: a desktop or handheld reader or direct connection to a computer. Once loaded onto the PC, the free TrekView Report Software provides at-a-glance interpretation of when excursions have occurred and allows you to generate summary reports, manage tag programming, view tag status, and set alerts.

The software is designed to provide a graphical display of a tag’s recorded data and time-temperature profile in multiple formats: pie chart, curve, temperature distribution histogram, and tabular views of unit excursion data. The software gives users the option to drill in or compare information from multiple tags.



### Additional functionality:

- Automatically generate a PDF report of recorded tag data.
- Validated and FDA 21 CFR Part 11 compliant reports
- Customize threshold levels, sampling rate and reporting options for individual tags and save the configuration for future use.
- Overlay up to four tags for temperature mapping
- Receive email alerts, allowing you to respond quickly to risk



## Features/Benefits

- Smaller than a credit card
- Customizable settings, data access and monitoring methods
- RFID capability allows scanning through packaging or shipping containers
- Automatic email alerts of excursions
- Designed for wet, rugged applications
- Activate tags with the handheld reader or the push of a button
- Validated and FDA 21 CFR Part 11 compliant reports
- NIST traceable units

## Ideal Applications

TrekView is ideally suited to monitor critical temperature-controlled supply chains for industries such as:

- Pharmaceutical
- Biopharmaceutical
- Bone and Tissue
- Blood and Organs
- Vaccines
- Therapeutics
- Nutraceuticals

## Key Specifications

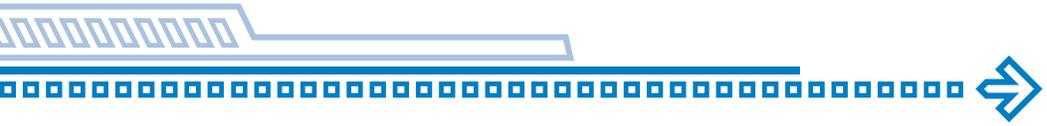
<b>Monitor Recording Options</b>	Multi-use
<b>Temperature Measurement Range</b>	-30°C to 75°C
<b>Temperature Accuracy</b>	±0.5°C across the entire measurement range
<b>Threshold Settings</b>	Eight configurable excursion thresholds
<b>Memory Capacity</b>	4000 logged data points / 16 million histogram data points
<b>Downloadable Data</b>	Available during transport / storage without stopping the recorder
<b>Data Retrieval</b>	External or Internal USB plus Wireless
<b>Wireless Technology</b>	Semi-passive RFID
<b>Packaging</b>	NEMA 4 (External USB)
<b>Battery Life</b>	Three-year run life
<b>Calibration</b>	Factory calibrated; Three point NIST certification

See TrekView data sheet for complete list of specifications.

## Learn from the Experts

ShockWatch is a global leader in the innovation and optimization of logistics and cold chain risk mitigation. In addition to providing leading-edge products and systems, ShockWatch consultants, subject matter experts, and training staff partner with customers to help them:

- Ensure proper implementation and effective long-term usage of ShockWatch solutions
- Optimize your hardware investment for an improved bottom line
- Maximize understanding of conditions that affect products during transit in storage and in operation



## A Complete Portfolio of Monitoring Devices

TrekView is part of a complete line of temperature monitoring devices available from ShockWatch. Below is a short comparison of additional products that may help you in your monitoring needs.

<b>Indicators</b> ColdMark®2 WarmMark®2	<b>Electronic Indicators</b> TempMark® 8	<b>Recorders</b> TrekView®
Single temperature threshold devices	8 temperature alarm threshold devices	
Simple go/no-go chemical indicator	Records number & longest duration of single excursion, cumulative time out of tolerance for 8 alarm conditions	Records temperature every minute for up to three (3) years  Graphing & analysis software FDA 21 CFR Part 11 Compliant reports
Single use device	Single use device	26 use device
-20°C to 38°C	-20°C to 70°C	-30°C to 75°C
Visual color change	Liquid crystal display	Red/green LED Data access: Wireless or USB

**Increasing cold chain information delivered**

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## Put the TrekView Advantage to Work for You

Learn how TrekView can optimize your cold chain by contacting us at [info@shockwatch.com](mailto:info@shockwatch.com) or learn more by visiting [www.ShockWatch.com/TrekView](http://www.ShockWatch.com/TrekView).

## About ShockWatch

As the global leader in the innovation and optimization of logistics and cold chain risk management systems, ShockWatch provides solutions that currently enable over 3000 customers and some 200 partners in 62 countries to detect mishandling that causes product damage and spoilage during transport and storage. The robust ShockWatch product portfolio includes impact, tilt, temperature, vibration, and humidity detection systems and is widely used in the energy, transportation, aerospace, defense, food, pharmaceutical, medical device, and manufacturing sectors.

Founded in 1976 and based in Dallas, Texas, ShockWatch is a subsidiary of MRI, Inc., which is also the parent of DPC and DataSpan. MRI's international client base includes two-thirds of the Fortune 100 and more than half of the Fortune 1000 companies.

For more information on ShockWatch position on RoHS, EU Directive 2002/95/EC, Amendment Commission Decision 2005/618/EC, and our certificates of compliance, please visit [www.shockwatch.com](http://www.shockwatch.com).