

TempTale®4 USB

Dry Ice Monitor

Complete Control of Your Dry Ice Environment

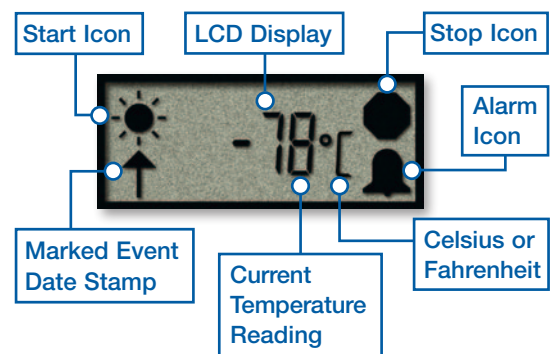
Fast, simple, efficient and secure cold chain visibility

Sensitech's TempTale®4 USB Dry Ice temperature monitor can be used to record and monitor cold chain shipment and storage processes of blood plasma, pharmaceuticals, frozen tissue and dry ice shipments where temperatures can reach as low as -80°C (-112°F). Other applications include ultra-low temperature equipment validation such as plasma and red cell freezers, ultra low temperature freezers and shipping containers. The TT4 USB Dry Ice monitor is a self-contained, battery powered electronic monitor that can be placed directly into dry ice containers and packaging, without the need for external probes or wires.

Monitoring the cold chain throughout complex supply chains is made easy with the TT4 USB Dry Ice monitor. Combining Sensitech's industry-leading temperature monitoring technology with USB 2.0 PC communications and a powerful on-board microcontroller enables access to time-and-temperature data without the need for proprietary software and hardware readers.

Plug the TT4 USB Dry Ice monitor into a PC's USB port and the monitor will automatically create a time-and-temperature information report in Adobe® PDF format. Viewable using any Adobe compatible reader program, the report provides a complete cold chain trip history, allowing for rapid on-site shipment dispositions. Through e-mail or other file sharing capability, any interested party can instantly and effortlessly review shipment information.

The TT4 USB Dry Ice monitor also creates an encrypted data file (.txx format) compatible with Sensitech's TempTale Manager Desktop (TTMD) PC software and Internet-enabled application, ColdStream® Cold Chain Manager (CCM). The .txx data file format enables secure data transfer, aggregation, analysis, and data storage in support of 21 CFR Part 11 compliance and quality assurance requirements.



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Specifications	
Temperature Measurement Range	-80°C to +30°C (-112°F to +86°F)
Temperature Accuracy Range	±1.7°C from -80°C to +30°C (±3°F from -112°F to +86°F)
Temperature Resolution	0.1°C/F over full temperature measurement range
Data Memory Type	Non-volatile 16K EEPROM
Data Storage Capacity	16,000 data points (16K)
Battery Life	1-year shelf life
Data Sampling Interval	Programmable from 10 seconds up to 15 minutes
Start-Up Delay	Minimum – 0 seconds Maximum – 10 days
LCD Display	Display temp values in °C or °F
Start Up Options	Manual push button or automatic launch option
Alarm Function	Programmable high and low limits; Alarm is triggered when temperature exceeds set limits
Typical Dimensions	3.95" L x 2.18" W x 1.26" H (10.0cm L x 5.5cm W x 3.2cm H)
Weight	4.3 oz., 121.90 grams
Maximum Recording Period	30 days
Quality Assurance Certifications	CE Mark; Calibration Traceable to NIST; [®] RoHS, WEEE
Compatible Software	TempTale Manager Desktop Software; Adobe Reader
Computer Interface	USB 2.0, A-Type plug
Monitor Recording Options	Single Use Only

Operating the monitor outside of published specifications may affect the accuracy of the data and the standard operation of the monitor.



*Adobe PDF
cold chain data
report with password
security protection*

Features and Benefits

- Designed to accurately record, monitor and archive temperature data of mission critical dry ice shipments
- Easy-to-use “plug-n-play” operation
- No proprietary software required at shipment destination
- Integrated USB connector; no hardware or interface cable required
- Automatic generation of Adobe PDF cold chain data report allows prompt on-site decision making
- Monitor can be placed directly into the dry ice environment, directly in contact with product

As the world's leading provider of cold chain visibility solutions, Sensitech enables global leaders in Food and Pharmaceuticals to track and monitor assets across the supply chain to protect the integrity of temperature-sensitive products. Sensitech is an ISO 9001:2008 company and is based in Beverly, Massachusetts, with offices in Amsterdam, Boston, Calgary, Melbourne, Mumbai, Redmond, Santiago and Shanghai as well as service and distribution offices around the world. Sensitech is a subsidiary of Farmington, Conn.-based Carrier Corp., the world's largest provider of heating, air conditioning, and refrigeration solutions with operations in 172 countries. Carrier Corp. is part of United Technologies Corp. (NYSE:UTX), a Hartford, Conn.-based provider of a broad range of high technology products and support services to the aerospace and building systems industries worldwide. For additional information, please call +1-978-927-7033 or visit www.sensitech.com. © 2010, Sensitech Inc. All Rights Reserved. Unless otherwise indicated, all trademarks and service marks are the property of Sensitech Inc. NIST is a registered trademark of The National Institute of Standards and Technology Agency of the United States Government. Adobe is a registered trademark of Adobe Systems Incorporated.

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Amsterdam Boston Calgary Melbourne Mumbai Redmond Santiago Shanghai

Sensitech Inc. • 800 Cummings Center • Suite 258X • Beverly, MA 01915-6197 • 1-800-843-8367 • +1-978-927-7033 • Fax: +1-978-921-2112 • www.sensitech.com