



TempTale® Ultra

Humidity Monitor

Introducing the TempTale® Ultra Humidity monitor—a sleekly designed, USB humidity and temperature datalogger that can measure ambient temperatures from -30°C to +70°C and humidity from 10% RH to 90% RH.

This compact device automatically generates a secure PDF and encrypted raw data file without the need for additional software. These files can subsequently be downloaded, viewed and archived in Sensitech's TempTale® Manager Desktop (TTMD) software or ColdStream® Cold Chain Manager private cloud database application, built to comply with FDA 21 CFR Part 11 and EC Annex 11.

The integrated USB connector provides fast and easy download of data, and automatically generates a secure PDF report and encrypted data file when connected to the USB port of a PC. The large, easy to read LCD display provides instant visibility into key trip statistics, current humidity and temperature readings, and clear indication of Alarm and operating status.

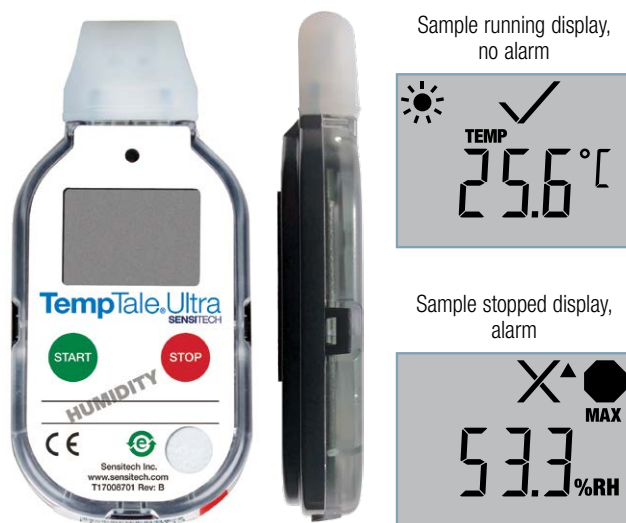
The TempTale Ultra Humidity monitor meets IATA's 2018 Dangerous Goods Regulations 59th Edition and thus requires no additional shipment labeling.

TempTale Ultra Humidity Features

- 32,000 readings (16,000 temperature/16,000 humidity)
- Thin 15.2mm housing design
- 3-Point NIST traceable Certificate of Calibration accessible in TTMD or ColdStream software
- Large LCD screen with clear indication of alarm status and trip statistics
- Single Use, Single Use Overwrite, and Multi Use recording options
- Download directly to PC via integrated USB connector
- Configurable PDF options such as, time zone, language and PDF/A file format
- Add shipment information prior to shipping to display on PDF report and in software when monitor is downloaded
- Write-protected flash drive for virus protection

TempTale Manager® Desktop Software

TempTale Manager® Desktop (TTMD) is a robust, multi-lingual, Windows-based software application that is used for configuring, downloading, and archiving time and temperature data collected from TempTale temperature monitors. The power of TTMD software lies in its intuitive user interface that allows users to effortlessly analyze trip data in order to make high-quality shipment disposition decisions, and ensure that Standard Operating Procedures (SOPs) are delivering acceptable results.



ColdStream® Cold Chain Manager

ColdStream® Cold Chain Manager (CCM) is a validated, hosted and secure relational database application that is easily accessible via the Internet for query, reporting and analysis of stored data. ColdStream CCM provides centralized storage for time and temperature records in a secure, 21 CFR Part 11 compliance repository. The hosted database application enables robust cold chain data analysis, reporting, and potential opportunities for process improvement.

TempTale® Ultra Humidity Specifications	
Monitoring Recording Options	Single Use, Single Use Overwrite, Multi Use
Temperature Measurement Range	-30°C to +70°C (-22°F to +158°F)
Temperature Accuracy Range	±0.5°C from -10°C to +45°C (±0.9°F from +14°F to +113°F) ±1.0°C from -30°C to -10°C (±1.8°F from -22°F to +14°F) ±1.0°C from +45°C to +70°C (±1.8°F from +113°F to +158°F)
Temperature Resolution	0.1°C/F over full temperature measurement range
Humidity Measurement Range	10% - 90% RH, non-condensing
Humidity Accuracy Range	±3.0% RH from 20% RH - 80% RH ±5.0% RH from 80% RH - 90% RH ±5.0% RH from 10% RH - 20% RH
Relative Humidity Resolution	0.1% RH
Data Storage Capacity	32,000 data points (16,000 temperature /16,000 humidity)
Operating Life / Battery Type	12 months operating life / 3.6v coin cell lithium battery – non-replaceable
Data Sampling Interval	Programmable from 30 seconds up to a maximum of 120 minutes in 30 second increments
Start Up Delay	0 minutes to 24 hours in 30 second increments
Programmable Alarms	• High and Low Temperature alarms • High and Low Humidity alarms
Alarm Delay Time Thresholds	Single event (continuous), cumulative
LCD Indicators	• Status: Started, Start-up Delay, Running, Stopped • Alarm status: OK (✓), Alarmed (✗) • Trip summary data (average, minimum, maximum) • Current temperature and humidity readings
Start Up Options	Manual push button or automatic launch option
Dimensions	108mm L x 50.2mm W x 15.2mm H
Weight	Approximately 60 g (2.1 oz)
PDF Languages	English, German, French, Spanish, Chinese
PDF File Formats	PDF or PDF/A
IP Rating	IP54 (with silicon cap on)
Time Accuracy	± 2 minutes per month on average at temperatures (0°C to +50°C)
Data Analysis Software	TempTale® Manager Desktop 8.3 or higher ColdStream® Cold Chain Manager 1.8B or higher
Minimum System Requirements	Windows PC w/ Windows 7 or higher; Adobe Reader 9.0 or higher
Computer Interface	USB 2.0, A-type plug
Quality Assurance Certifications	• CE, RTCA – D0160G compliant, RoHS compliant, Response time tested to U.S. Pharmacopeia (USP) <1118> and EN 12830 standards • 3-point NIST® Traceable Certificate of Calibration • Validation Manual
Ship Air in Accordance With	2018 IATA Dangerous Goods Regulations 59th Edition

Sensitech has performed all necessary testing and can provide documentation supporting our compliance at your request.

Sensitech Inc. is a global leader in delivering supply chain visibility solutions. Our innovative monitoring products and services help to maintain the quality and integrity of our customers' valuable products at every step in their journey, all around the world. For 30 years, leading companies in the food, pharmaceutical, industrial, consumer goods and other industries have relied on Sensitech to help protect their products—and

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