



TempTale® GEO Ultra

TempTale® GEO Ultra Extended

Real-time Visibility with Validated Temperature Monitoring

The TempTale® GEO Ultra Extended is a global, real-time IoT device that delivers end-to-end real-time shipment location with validated temperature monitoring, key to logistics and quality departments. This flight compliant device is designed for longer, extended trips for ocean, air and multimodal shipments. Sensitech is helping Life Sciences customers digitize their supply chain, prevent the loss of shipments with in-transit visibility and alerts, automate and increase compliance, and speed up product release.

The TempTale® GEO Ultra Extended provides an early warning signal enabling action in the event of a temperature spike, with visibility into delays, proximity, and rerouting; and alerting of a trailer door or container being opened. cGXP data for the entire shipment automatically flows to the system-of-record, easing the burden of receivers and increasing compliance.

Key Features and Benefits

- Real-time location and validated temperature visibility -30°C to +55°C
- Provides real-time temperature, humidity, light and location notifications via secure, web-based software application, to prevent and manage risks due to temperature excursions, delays, rerouting, and more
- Validated cGXP time and temperature data flows automatically to ColdStream® Select for product release decisions, designed to meet Life Sciences FDA 21 CFR Part 11 and EC Annex 11 regulatory requirements
- LTE Cat-M1 (4G) with 2G fallback cellular coverage provides communication globally
- Lithium Metal battery to extend shipment operating life (see product specifications for IATA requirements)
- Arrives fully charged with simple push-button start for easy deployment
- Flexible configurations optimized for battery efficiency and expanded trip lengths; for shorter trips see TempTale® GEO Ultra—alkaline powered products

- Up to six software alarm configurations, using any combination of alarm types: High/Low temperature limits; Single or Cumulative
- Each individual device is 3-point NIST® calibrated, providing a Certificate of Calibration
- Secondary download via wireless NFC TempTale Mobile App supports iOS and Android

Sensitech's sustainable single use model is simple and easy. Sensitech's Take-back Program encourages recycling and restoration by returning devices to Sensitech. Sensitech provides on-demand ordering, eliminating the need for customers to be constrained to their pool of device inventory.



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The SensiWatch® Platform provides end-to-end visibility and alerts from the cloud. Take advantage of real-time shipment data and notifications such as:

- Delays and rerouting
- Proximity of arrival
- Trailer door or container opened
- Early warnings that temperature is trending in the wrong direction

Automatic upload of time and temperature records to ColdStream® Select provides full traceability and system-of-record for quality to speed product release. Solution dashboards, analytics and mobile app help manage to KPIs and drive continuous supply chain improvements.

TempTale® GEO Ultra Extended Specifications	
Monitor Recording Option	Sustainable Single Use Only; Sensitech manages restoration requirements
Certified Modes of Transport	Air, Road, Rail, Ocean
Sensor Types	Temperature, light
Temperature Range for Storage	-30°C to +55°C
Temperature Measurement Range	-30°C to +55°C (For colder temperatures see our probed -95°C products)
Temperature Accuracy Range	±0.5°C from -30°C to +45°C ±1.0°C from +45°C to +55°C
Software-based Alarms	<ul style="list-style-type: none"> • Software up to 6 multi-alarms → alarm is triggered when temperature exceeds set limits • Single-Event (Continuous) or Cumulative
Temperature Accuracy Certification	3-point NIST® Traceable Certificate of Calibration
Temperature Sensor Sample Interval	Programmable 15 minutes to 2 hours
Humidity Measurement Range	10% – 90% RH, non-condensing
Humidity Accuracy Range	±3.0% RH from 10% RH - 90% RH
Relative Humidity Resolution	0.1% RH
Temperature Measurement Responsiveness	Meets the requirements of <USP> 1118 and EN12830
Light Sensor	0-100%
Cellular	LTE Cat-M1 (4G) \ 2G; Cellular triangulation
Memory	5,000 data points per sensor
Battery Type / Shelf Life	Lithium Metal battery (non-replaceable), IATA Dangerous Goods Declaration and Class 9 lithium battery label required. IATA DG UN3091 label required if > 2 devices per consignment. Up to 180 days shelf life.
Operating Life	Up to 120 days, with communication reporting interval from 15 minutes to 360 minutes; Configurable based on total days for shipment.
Dimensions and Weight	121.5mm x 115.5mm x 25.5mm; 241 grams
Environmental Rating	IP64
Regulatory Certifications	FCC; CE; UKCA; MIC; NOM; Anatel; RoHS; WEEE; RTCA/DO-160
Display Indicators	LED lights indicate Start, Stop, Status
Secondary Download	Near Field Communication with TempTale® Mobile App (iOS and Android)
Software	SensiWatch® Platform; Email or SMS Notifications; ColdStream® Select 2.1+; TempTale® Mobile App
Cold Chain PDF Report	Software generated PDF report
Minimum System Requirements	Browsers: Chrome, Internet Explorer 11+ (Win 7+), Microsoft Edge, Firefox, Safari (OSX10.12+, iOS 13+), and Android 7+; Adobe® Reader 9.0 or higher

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 their bottom lines. All trademarks and service marks are property of their respective owners. Visit www.sensitech.com for additional information. ©2024 Carrier. All Rights Reserved.

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