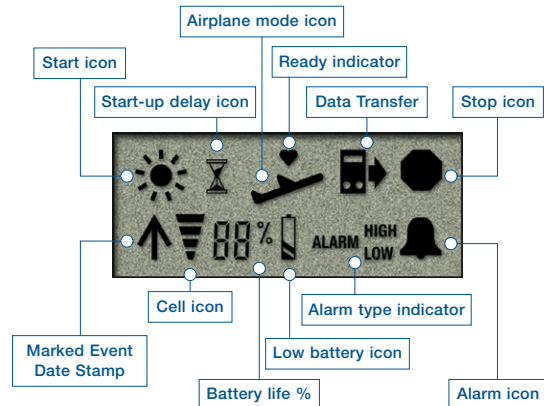# TempTale®GEO

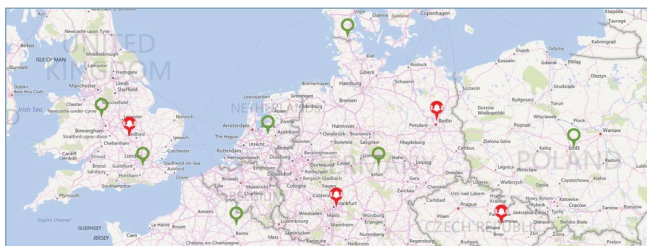## Real-Time Visibility for Temperature & Location

Visibility is a key component for logistics efficiency and quality assurance. The ability to monitor condition, geolocation, and light in real time delivers visibility and is a competitive advantage in today's complex supply chains. Regardless of where you sit—manufacturer, distributor or transportation provider—visibility is now a "must have." Sensitech's TempTale® GEO monitor—the industry's only validated real-time temperature datalogger—improves logistics and supply chain performance by increasing visibility through chain-of-custody insight, as well as risk mitigation to correct temperature excursions during the transport of life sciences shipments.

TempTale® GEO Features and Benefits

- Provides real-time visibility for temperature and location to support both logistics and quality.

- Reduces risk by enabling active intervention to address correctable temperature excursions, based on customer-defined tolerance levels, before product quality is impacted.

- Gives advance indication to all supply chain partners of product location and arrival time, improving agility and responsiveness.

- Allows data to be viewed in real time through self-serve user interface—SensiWatch™ Tracks.

- Manages data in the same private cloud-hosted environment as other TempTale® units, which facilitates a view of the life sciences supply chain to drive continuous improvements and meet regulatory compliance standards.

- Provides PDF reports and allows alternate data download into a system-of-record database—ColdStream®—via USB.

- Ensures that no data gaps occur when the device travels through areas with no cellular coverage.

Intuitive LCD and LED indicators provide device status and alarm notification

SENSITECH
United Technologies
SUPPLY CHAIN VISIBILITY

TempTale.GEO

TempTale® Geo Specifications	
Sensor Types	Temperature, Light
Temperature Range for Storage	-20°C to 55°C
Temperature Measurement Range	-15°C to 55°C
Environmental Rating	IP64
Temperature Accuracy Range	3 point NIST® traceable **Range** / **Accuracy** -15°C to -10°C / ±1°C -10°C to 45°C / ±0.5°C 45°C to 55°C / ±1°C
Temperature Resolution	0.1°C/F over full temperature measurement range
Light Sensor	1-400 lux
Temperature Measurement Responsiveness	Meets the requirements of USP 1118 and EN12830
Cellular Communications	Global Quad-band GSM (850, 900, 1800, 1900 MHz), GPRS data
Location Method	Cellular-based location
Data Logger Memory Type	8k data points, Non-volatile EEPROM
Programmable Data Logger Alarms	Maximum of 6 alarms using any combination of 4 alarm types
Data logger Alarm Types	High/low temperature limit; Single Temperature range; Dual Temperature range; Time-only
Cold Chain PDF report	Internally generated and stored PDF report; can be downloaded/printed using USB port
Battery Life/Type	High Capacity Internal Lithium Battery • Shelf Life: 67 days; Operating: Minimum 7 days (15 minute reporting interval) • Shelf Life: 67 days; Operating: Minimum 14 days (30 minute reporting interval) • Longer intervals allow greater operating life up to 60 days
Temperature Sensor Sampling Interval	15 minutes to 2 hours, factory configurable
Data Reporting Interval	15 minutes to 8 hours, factory configurable
Operating Modes	Standard Run mode; Delayed Start Run mode; Airplane mode; Ocean Container mode
Housing	UL 94-V0 flame retardant plastic, IP64
Mechanical, Shock & Vibration	3000 lb (1360 kg) crush resistant
Dimensions	3.25 in. x 6.25 in. x 1 in. (82 mm x 165 mm x 25 mm)
Weight	0.75 lb (0.34 kg)
Certifications	FCC, CE, RoHS, PTCRB, WEEE, DO160G, EN61000-4-2 Level 4, IEC62133, UN-38.3, EN61000-6-3, EN61000-6-1, EN60950-1; Incidental food contact per U.S. FDA 21 CFR Part 181.32
Validation	Designed and manufactured to comply with 21 CFR part 11, EU GDP, and EC Annex 11
Device Interface	Status LEDs; LCD; Push buttons; Accepts USB Micro-B connector
Real-Time Software Interface	SensiWatch™ Tracks Real-Time web-based application • Shipment creation • Trip Information including departure and arrival times, origin and destination locations, carrier, PO, product type • Temperature alarms • Email or TXT (SMS) temperature alarm and light notifications • Temperature statistics and history graph • Location information and history • Reports
Compatible Software	TempTale Manager® Desktop (TTMD) 7.4 and higher; ColdStream® Cold Chain Manager 1.8 and higher

SensiWatch™ Tracks—Designed for Supply Chain Efficiency

Visibility begins when the shipment begins; the depth of information collected up-front about the shipment enables a real-time notification of temperature, location, and light-triggered events. This is an important fact for all partners involved—shippers, receivers, and logistics providers.

SensiWatch™ Tracks Features and Benefits

- View real-time data in multiple ways to best suit your business needs:
  - Map View showing the location of in-transit devices with mouse-over capabilities for additional detail.
  - Directory View highlighting shipment attributes with status in a tabular format.
  - Individual Trip Detail featuring shipment details, statistics, alarms and a temperature graph.
- Configurable condition status automatically triggers email or TXT (SMS) notifications for temperature, light or location events.

- Develop alarm configurations easily within SensiWatch™ Tracks: temperature sensor excursion, departure/arrival, not moving, not transmitting, predicted late arrival; support for multiple alarm definitions per trip.
- Supports hassle-free software upgrades through a hosted, browser-based interface.
- Customized reports configurable by user:
  - Filter and group by product information, shipment origin, destination, carrier, and date range.
  - View many trips in aggregate or drill down to single trip detail.
  - Compare temperature statistics among groups.
  - Rank performance by top ten key performance indicators (KPI).
  - Monitor changes in KPIs over time to spot trends.
  - Compare multiple temperature graphs.
  - Determine appropriate alarm sensitivity to avoid "alert fatigue."

Map View

Overview of all in-transit shipments and their current status for the past seven days, updated in real time as new data is collected.

- Zoom in/out for ideal viewing.
- Filter view by product, origin, destination, alarm status.
- Click on any shipment to view trip details.
- Flag trips for reference.

What to measure?

Product, origin, destination, transport type, carrier, commodity.

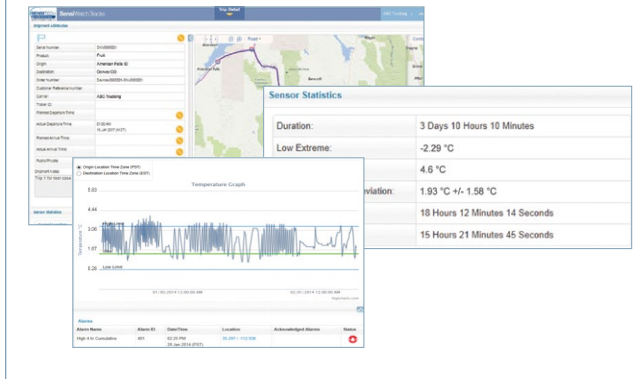Real-time visibility tells a transparent story.

Directory View

View shipment details in an easy-to-read tabular format. Filters applied in either Map View or Directory View are automatically populated to the other for consistency.
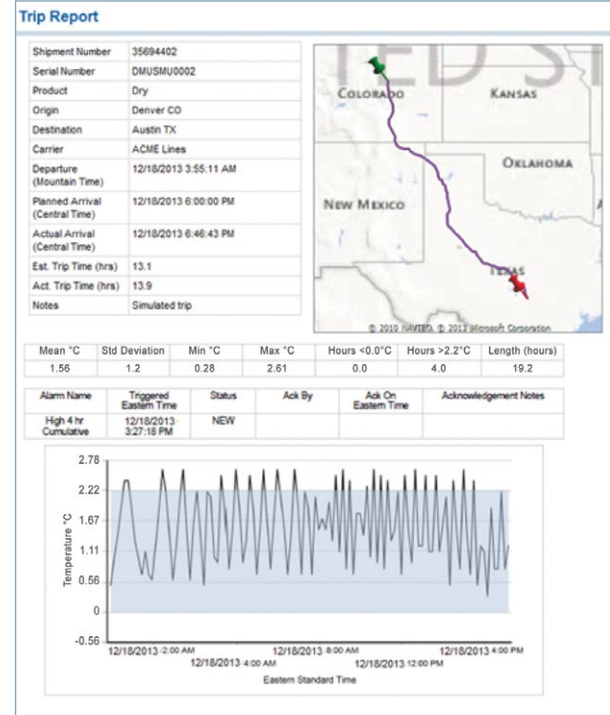
TempTale®GEO

Trip Detail Screen

Provides complete detail on shipment attributes, sensor statistics, temperature information graph, and alarm notifications.

Email Notifications

Subject line identifies shipment number and status (departed, late, sensor excursion, arrived) for quick information updates.

Email notification includes complete trip detail including shipment attributes and status information.