TempTale®Ultra

TempTale® Ultra Dry Ice Probe Monitor

Validated, detachable probed TempTale® Ultra for monitoring dry ice shipments

The TempTale® Ultra Dry Ice Probe monitor is an ideal solution for monitoring in-transit and storage temperatures of biological samples (i.e., tissue, blood, etc.) and temperature-sensitive biomedical/pharmacological products that require very low temperatures to maintain their stability.

Probe options include 1 meter (3.3 foot) and 3 meter (10 foot) lengths, perfect for monitoring temperature close to product inside dry ice shippers or large dry ice freezers. The TempTale Ultra Dry Ice Probe monitor allows supply-chain partners (such as customs agents, third-party logistics (3PL) providers, distributors, and hospitals) to disconnect/reconnect the probe, to assess temperature data and alarm status without opening the carton (no disruption of temperature probe as it continues on its journey). For shipping lanes involving customs agents, this is a "must have" requirement (i.e., Saudi Arabia FDA Regulations).

The detachable probe enables receivers to read the LCD status immediately, thereby expediting decisions at the dock, no longer requiring the LCD to "warm-up" and display the alarm status. The TempTale Ultra Dry Ice Probe monitor is available in both Single Use, Single Use Overwrite, and Multi Use recording options.

Features and Benefits

- External dry ice probe allows customers to record temperatures inside packaging and view key temperature indicators on the monitor's LCD outside of the package without opening the package.

- No longer will probes need to acclimate to the frozen environment each time the package is inspected or the monitor is downloaded. Temperature monitoring remains more stable now that the probe can remain next to the product inside the dry ice shipper, while the actual USB monitor remains on the outside for easy data downloading.

- Direct USB connection to PC—no proprietary reader or USB adapter needed to access data stored on monitor; PDF options are configurable: selectable time zones and languages enhance usability at international receiving sites.

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SUPPLY CHAIN VISIBILITY

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TempTale Ultra Dry Ice Probe Specifications	
Monitoring Recording Options	Single Use, Single-Use with User Programmable Overwrite, or Multiple Use
Probe Temperature Measurement Range	-90°C to + 30°C (-130°F to +86°F)
Probe Sensor Accuracy Range	±1.5°C from -90°C to +30°C (±2.7°F from -130°F to +86°F)
Monitor Operating Range	-30°C to + 70°C (-22°F to +158°F)
Temperature Resolution	0.1°C/F over full temperature measurement range
Data Memory Type	Non-volatile 16K Flash memory
Data Storage Capacity	16,000 data points (16K)
Battery Life / Type	12 months operating life / 3.6v lithium battery
Data Sampling Interval	Programmable from 30 seconds up to a maximum of 120 minutes
Water Resistant Housing	IP64 (with detachable probe connected to monitor)
Start Up Delay	0 minutes to 24 hours
Programmable Alarms	Alarm Mode Options • High/Low • Multi-Alarm (up to six) – single temperature limit, temperature range, dual temperature range, MKT, duration
Alarm Delay Time Thresholds	Single event (continuous) or cumulative
LCD Indicators	Started, start-up delay, running, stopped; Alarm status: OK (✔), Alarmed (✘); Trip summary data (average, minimum, maximum); Current temperature reading; Time remaining / time elapsed against alarm thresholds; PROBE and X flash when probe disconnects from monitor
Cable Length Options	1m and 3m
Outer diameter of cable (typical)	3.5mm
Weight (typical)	82.2 grams (2.9 oz) with 1m probe 119.0 grams (4.2 oz) with 3m probe
Quality Assurance Certifications	CE, RTCA – D016ØG 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
Minimum System Requirements	Windows® PC w/ Windows® 7 Pro (64-bit) or higher; Adobe® Reader 9.0 or higher
Data Analysis and Cold Chain Continuous Improvement Software	TempTale Manager® Desktop 8.0 or higher; ColdStream® Cold Chain Manager 1.8A or higher; ColdStream® Web 1.1
Computer Interface	USB 2.0, A-type plug