TMDL20 Single Use USB Dry Ice Datalogger (-112°F/-80°C)

Designed for monitoring temperature subject to quality control requirements in transportation and storage

Key Features

High-Precision Internal Sensor
Equipped with an internal PT1000 temperature sensor for accurate and reliable monitoring in extreme cold conditions.

Large Data Storage Capacity
Logs up to 8,192 data points for extended recording sessions.

Convenient PDF Data Reports
Download recorded temperature data in ready-to-use PDF format for fast documentation and analysis.

Customizable Sampling Intervals
Adjustable logging interval from 30 seconds to 120 minutes to match monitoring requirements.

Programmable Start & Alarm Delays
Configure start delays and alarm notifications to suit your specific application needs.

Configurable Visual Alarms
Visual high/low temperature alarms with single occurrence, cumulative alerts, or disabled modes for flexible alerting.

Secure Access with Password Protection
16-character alphanumeric password option for secure device access and settings protection.

Event Marking Capability
Mark up to 8 user-defined events during recording for easier data interpretation.

Durable Waterproof Design
IP67-rated housing for use in harsh environments.

Regulatory Compliance
Meets EN12830:2018 for temperature recorders in the transport of food and RTCA DO-160G for airborne equipment.

Includes
One pre-configured, single-use USB Dry Ice Datalogger.

Users

- Pharmaceutical & Biotechnology Companies
- Clinical & Medical Laboratories
- Cold Chain Logistics Providers
- Research Institutions & Universities
- Food Industry
- Aerospace & Defense

2 LIMITED PRODUCT WARRANTY YEARS IP67 RoHS COMPLIANT CE

Applications

Vaccine and Pharmaceutical Distribution
Monitoring ultra-low temperatures during storage and shipment of vaccines (e.g., mRNA COVID-19 vaccines), biologics, and cell/gene therapies.

Biotech & Research Storage
Long-term storage of sensitive reagents, enzymes, or cell lines in ultra-low temperature environments (e.g., dry ice freezers).

Cold Chain Logistics
Use in refrigerated trucks, air cargo, or last-mile delivery involving dry ice-packed goods.

Food & Beverage Shipping
Transport of high-value frozen foods, gourmet meal kits, cryogenically preserved items, or dry ice-shipped perishables.

Quality Assurance and Regulatory Compliance
Auditable recordkeeping for temperature-sensitive goods across manufacturing and logistics processes.

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A single-use, ultra-low temperature monitoring device designed for dry ice shipments and cold chain applications. It features a precise internal PT1000 sensor, stores up to 8,192 data points, and offers customizable settings including sampling intervals, start delays, and alarm thresholds. Visual indicators show recording status, battery level, and alarm conditions, while built-in USB connectivity allows automatic PDF data reports without special software. With IP67 waterproof protection, password security, event marking, and compliance with EN12830:2018 and RTCA DO-160G, it's a reliable, easy-to-use solution for monitoring temperature-sensitive goods.

Specifications

Sensor Type	Internal PT1000
Temperature Range	-112 to 158°F (-80 to 70°C)
Accuracy	±0.9°F/0.5°C)
Resolution	0.1°F/°C
High/Low Alarm Range	-112 to 158°F (-80 to 70°C)
Alarm Delay	30s, 5, 10, 30, 45, 60, 90, 120min, 24hr
Alarm Type	single, cumulative, disable
Datalogging	8192 points
Sampling Rate	30s, 5, 10, 30, 45, 60, 90, 120min
Waterproof	IP67
Directives	EN12830:2018, RTCA DO-160G
Power	Built-in 3.6V Lithium battery
Dimensions / Weight	4 x 1.1 x 0.4" (104 x 28.8 x 10.5mm) / 0.7oz (20g)

Ordering Information:

TMDL20 Single-Use USB Dry Ice Datalogger

What's in the Box?

(1) Single-Use USB Dry Ice Datalogger