TempSen

ITAG™4 Dry Ice Data Loggers

Engineered for Dry Ice Shipments

Auto PDF Report

Automatically generates encrypted PDF format report which includes detailed summaries, statistics, alarm information, chart and optional tabular data, meanwhile the embedded raw data allows for further data processing via TempSen Cloud or any third-party system.

Direct-in-Box Monitoring Down to -95°C

Built for extreme cold chain environments. No external probes required, the entire data logger can be placed directly inside dry ice shipping boxes, ensuring seamless and reliable temperature monitoring even at temperatures as low as -95°C.

Extractable and verifiable raw data embedded

Raw data embedded in PDF file could be extracted and verified by any 3rd party system for central management.

21 CFR 11 Compliance

Designed for FDA 21 CFR Part 11 compliance.

(use with TempSen Express)

Software-Free Configuration

Rapid programming data logger using configuration file, no need to install dedicated software or driver to configure data loggers in Windows or Mac OS.

Qualified for Air Freight

Complies with IATA PI970 II and RTCA/DO-160G Environmental Conditions and Test Procedures for Airborne Equipment, qualified for air shipment in active status.

monitoring for Life Science

TempSen Electronics

Leading provider of cold chain data loggers

Technical Data

Sensor	Internal NTC
Usage	Single use
Specifications	
Memory Capacity	28800 readings
Measurement Range	-95°C...70°C
Accuracy	±0.5°C (-20°C...20°C) ±0.7°C (-80°C...-20.1°C / 20.1°C...70°C) ±1.5°C (-95°C...-80.1°C)
Resolution	0.1°C /°F
Start Mode	Manual / Auto start
Logging Interval	1 minute...2 hours
Battery / Life	3.6V lithium battery 30 days (-85°C and above) 10 days (-95°C to -85.1°C)
Shelf Life	2 years (1 year if power activated)
Display (LCD)	•OK(√), Alarm(x), Running status •Violation duration of each alarm zone •Statistics (max, min, avg)
Button	Start / Stop / View / Mark
Connection	USB 2.0 connector (Type A compatible)
Automatic Data File	Encrypted PDF report with embedded raw data
Software	TempSen Express (21 CFR 11 compliant)
Calibration	Factory sampling calibration (AQL 0.25)
Certifications	CE, RTCA-DO160G, IATA PI970 II, WEEE, RoHS, Manufacturer's Validation Certificate
Dimensions	93mm L x 45mm W x 16mm H
Weight	Approx. 38g
Packaging/Material	Case / Polycarbonate
Protection Class	IP65
Features	
Profile ID	●
Alarm Ranges	H3, H2, H1, L1, L2, L3

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