



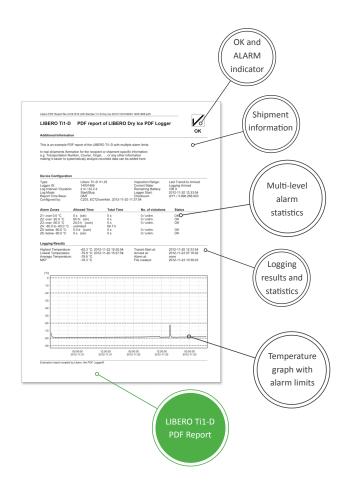
**TECHNICAL SPECIFICATIONS LIBERO TI1-D** 

## LIBERO Ti1-D

## Multi-Level PDF Logger for direct placement into dry ice

LIBERO Ti1-D is the PDF Logger that simplifies your data logging requirements for dry ice shipments. With its internal temperature sensor and the extra battery power needed to withstand the tough dry ice environment, the LIBERO Ti1-D is the perfect solution to monitor dry ice shipments. Fully configurable by the user, supporting up to six temperature levels and the possibility to add shipment-specific information allows an individual configuration of the LIBERO Ti1-D. Release products based on the OK or ALARM status on the display, download the PDF report and forward it to the sender or to liberoMANAGER, ELPRO's cold chain database, for further analysis.





we prove it.



- Internal temperature sensor for placement directly into dry ice
- Immediately creates a PDF report upon removing from dry ice
- Simple and safe, no equipment, no software
- Compatible with liberoMANAGER cold chain database
- Fully compliant with industry guidelines

## **Technical specifications LIBERO Ti1-D**

Туре	PDF Logger with multiple alarm levels	
Application area	Cold Chain Monitoring - dry ice shipments	
Recording options and mode	Single use, start/stop mode	
Type of probe	Internal NTC probe	
Measurement range	-90 °C+70 °C	
Measurement accuracy	$\pm$ 0.2 °C in the range of -10 °C+25 °C $\pm$ 0.5 °C in the range of -35 °C10.1 °C as well as +25.1 °C+70 °C $\pm$ 1.8 °C in the range of -85 °C35.1 °C	
Resolution	0.1°	
Measurement interval	1 to 60 minutes, user programmable	
Memory capacity (run time)	16'000 measuring data points	
Expiry date & battery life	- 14 months shelf-life	
	- 100 days logging time overall	
	- 20 days logging time at exposure to -80 °C	
Certificate	14 month validation certificate	
Programmable alarms	- 6 temperature alarm levels with single or cumulative delays	
	- 2 temperature thresholds with alarm dela	У
Start-up delay	0 minutes to 24 h	
Display	Multifunction LCD, size: 23.5 x 23.5 mm, with OK and ALARM indicator	
Display functionality	- Status: Conf, Start, Transit, Arrived	- Remaining battery life in days
	- OK, ALARM or blank	<ul> <li>Statistical data (min, max, average)</li> </ul>
	- Current temperature measurement	<ul> <li>Start &amp; end marking functionality with</li> </ul>
	- Configuration profile identification	TRANSIT & ARRIVED buttons
Report	Built-in PDF file generator automatically establishes an evaluation report with embedded raw data upon connection to a USB port. Complies with the ISO standard 19005-1 Document Management for the long-term preservation of electronic documents (PDF/A) and 21 CFR Part 11.  - Customizable report title and filename  - Text area for additional information (e.g. shipment information, instructions for recipient, etc.)  - Immediate release or quarantine based on alarm status  - Statistics (min/max, average, alarm) & detailed logger information (ID, configuration, etc.)  - Chart visualizing the temperature curve and alarm limits	
Traceability	ID number	
Case / dimension / weight	ABS plastic material / 110 x 62 x 20 mm (4.4 x 2.5 x 0.8 inch) / 86 g (3.03 oz)	
Data logger configuration	liberoCONFIG software to create, store and manage individual settings in a logger profile as well as SmartStart, a liberoCONFIG component allowing a safe and quick application of profiles and shipment information to PDF Loggers is downloadable free of charge.	



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