LIBERO Ti1-S
- Multi-Level PDF Logger
- No equipment
- No software

![ELPRO]

LIBERO Ti1-S

Multi-Level PDF Logger

LIBERO Ti1-S is the most versatile PDF Logger for cold chain monitoring applications. Data logger inventory is easy to maintain, as the end user can configure the Ti1-S with up to six alarm levels and shipment- or project-specific information. Immediately release products based on the OK or ALARM status on the display and detailed alarm statistics in the PDF report. The point-by-point raw data can be extracted directly from the PDF report, which streamlines data management. Forward the PDF report to the sender or liberoMANAGER, ELPRO's cold chain database, for further analysis.

- OK and ALARM indicator
- USB interface
- Alarm status indicator
- Shipment information
- Display with battery status
- Multi-level alarm statistics
- Internal temperature sensor
- Logging results and statistics
- LIBERO PDF Logger Ti1-S
- Temperature graph with alarm limits
- LIBERO Ti1-S PDF Report

we prove it.

HIGHLIGHTS

- Simple and safe, no equipment, no software
- Used by major pharma companies and CROs worldwide
- Widest temperature measurement range of -35 °C..+70 °C
- Compatible with liberoMANAGER cold chain database
- Fully compliant with industry guidelines

🇨🇭 Swiss Engineering

Technical Specifications LIBERO Ti1-S

Type	PDF Logger with multiple alarm levels
Application area	Cold Chain Monitoring – applications with stability data or other allowed time / temperature excursions
Recording options and mode	**Single use:** start / stop mode
Type of probe	Internal NTC probe
Measurement range	-35 °C..+70 °C
Measurement accuracy	± 0.2 °C in the range of -10 °C..+25 °C ± 0.5 °C in the range of -35 °C..-10.1 °C as well as +25.1 °C..+70 °C
Resolution	0.1 °
Measurement interval	1 to 60 minutes, user programmable
Memory capacity	16'000 measurement values
Expiry date and battery life	- 14 months shelf life - 100 days logging time
Certificate	14 month validation certificate
Programmable alarms	- 6 temperature alarm levels with single or cumulative delays - 2 temperature thresholds with alarm delay
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, Logging, Stop - Current temperature measurement - Configuration profile identification - Remaining battery life in days - Statistical data (min, max, average)
Report	Built-in PDF file generator automatically establishes an evaluation report with embedded raw data upon connection to an USB port. Complies with the ISO standard 19005-1 Document Management for the long-term preservation of electronic documents (PDF/A) and FDA 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) and detailed logger information (ID, configuration, etc.) - Chart visualizing the temperature curve and alarm limits
Traceability	ID number
Case | dimension | weight	ABS plastic material | 95 x 40 x 12 mm (3.8 x 1.6 x 0.5 inch) | 38 g (1.34 oz)
Data logger configuration and additional analysis software	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 to PDF Logger. elproVIEWER software to access and export embedded data of PDF report, for data analysis and comprehensive report features. Both software products are downloadable at www.elpro.com/downloads.

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