LIBERO Ti1-L
- Multi-Level
  PDF Logger
- User configurable
- Reusable

ATTENTION:

THIS BOX INCLUDES
THE DATALOGGER
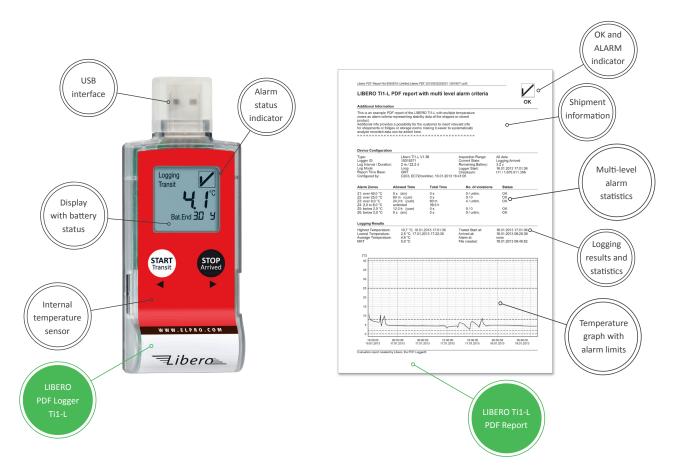
ELPRO

LIBERO Ti1-L

Reusable Multi-Level PDF Logger

With its wide temperature measurement range, an unmatched accuracy, and a battery lasting for two years, the LIBERO Ti1-L is a flexible option for various applications. End users can customize up to six alarm levels and add shipment- or project-specific information. After downloading the PDF report via any computer USB port, the LIBERO Ti1-L can be immediately reused or reprogrammed with a completely new configuration – even a different temperature range. The multi-use capability of the LIBERO Ti1-L significantly lowers cost per use, making the LIBERO Ti1-L a versatile, cost- effective choice.

USB interface

Alarm status indicator

Display with battery status

Internal temperature sensor

LIBERO PDF Logger Ti1-L

OK and ALARM indicator

Shipment information

Multi-level alarm statistics

Logging results and statistics

Temperature graph with alarm limits

LIBERO Ti1-L 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-L

Type	PDF Logger with multiple alarm levels
Application area	Cold Chain Monitoring, Site Monitoring Systems, Test & Verification Systems – applications with stability data or other allowed time / temperature excursions
Recording options and mode	**Multiple use:** start / stop or loop 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	2 to 60 minutes, user programmable
Memory capacity	16'000 measurement values
Battery life	2 years Non-replaceable battery Use below 0 °C and above +40 °C, and more frequent measuring intervals can limit battery life
Certificate	24 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 | 102 x 40 x 19 mm (4.0 x 1.6 x 0.75 inch) | 45 g (1.45 oz)
Accessories	LIBERO Simple Bracket | LIBERO Alarm Bracket
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.

HongKe 虹科

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