



LIBERO CI

- Multi-Level PDF Indicator
- Fully user configurable



TECHNICAL SPECIFICATIONS LIBERO CI

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LIBERO CI

User Configurable PDF Indicator with Cold Chain Database in the Cloud

LIBERO CI accepts any temperature profile at the time of use with up to eight alarm levels, MKT or duration as alarm criteria. No need to keep different indicators in stock, simply apply the correct temperature profile, add shipment information and send the indicator together with your product. Decide how much information should be visible for the recipient or if a simple OK or ALARM is all the recipient should see. Follow all your shipments in the same database, both LIBERO CI Indicator and LIBERO CS and CB PDF Loggers are compatible with liberoMANAGER, ELPRO's cold chain database.

LIBERO CI PDF report with multi level alarm criteria

Additional Information
This is an example PDF report of the LIBERO CI indicator with multiple user configurable temperature profiles and alarm criteria.
Report data can be hidden in the PDF report to only show OK or ALARM status to the recipient.

Shipment Information
In report information for the recipient or shipment specific information
e.g. Temperature Number, Country, Origin, ... or any other information
which is easier to automatically analyse. Report data can be added here.

LIBERO Configuration

Type	LIBERO CI	Current State	Stopped
Device ID	7300000002	Start at	14 Sep 2012 21:51:23
Log Interval	1 min	End at	14 Sep 2012 21:51:23
Report Time Base	UTC	Time Measurement	LIBERO 1007.000.250
Configured by	ELPRO - Partner, 14 Sep 2012 07:43:17		

Alarm Zone

Alarm Zone	Alarm Time	Total Time	No. of Exceedances	Longest Excl.	Status
MS over 40.0 °C	0 s	0 s	0 / unlimited	0 s	OK
MS over 35.0 °C	0 s	0 s	1 / unlimited	0 s	OK
MS over 30.0 °C	20.0 s	0 s	2 / unlimited	0 s	OK
MS over 25.0 °C	unlimited	20.0 s	0 / unlimited	0 s	OK
MS below 15.0 °C	20.0 s	11 s	4 / unlimited	7.5 s	OK
MS below 10.0 °C	0 s	0 s	0 / unlimited	0 s	OK

MKT Limits and Maximum Duration

MKT Limits and Maximum Duration	Alarm Conditions
Duration	10.0 s
MKT	10.0 °C

Logging Results

Logging Results	Stop at	Stop at
Highest Temperature	15.0 °C	14 Sep 2012 04:51:23
Lowest Temperature	10.0 °C	14 Sep 2012 04:51:23
Average Temperature	10.0 °C	14 Sep 2012 04:51:23

LIBERO CI PDF Indicator

LIBERO CI PDF Report

OK and ALARM indicator

Shipment information

Multi-level alarm statistics

MKT and duration

LIBERO CI PDF Report

USB Interface

Any configuration on one device

Secure Start/Stop button

Auto expiry date management

we prove it.



- Simple and safe, no equipment, no software
- Quick implementation, also by 3rd parties
- Compatible with liberoMANAGER cold chain database
- 100 % calibrated sensors and electronics
- Fully compliant with industry guidelines

Technical Specifications LIBERO CI

Version 2019

Type	PDF Indicator with multiple alarm levels	
Application area	Cold Chain Monitoring – applications without need for temperature graph or tabular data	
Recording option	Single use	
Operating range	-30 °C..+70 °C	
Measurement accuracy	The LIBERO CI is the most accurate indicator amongst its peers and features a guaranteed accuracy of ± 0.4 °C in the core range of 0.0 °C to 25.0 °C. The typical accuracy (95 % of all LIBEROs) is even better with ± 0.3 °C in the core range.	
	Accuracy over full temperature range: ± 0.4 °C from 0.0 °C to +25.0 °C ± 0.5 °C from -10.0 °C to -0.1 °C as well as +25.1 °C to +50.0 °C ± 1.0 °C from -30.0 °C to -10.1 °C as well as +50.1 °C to +70.0 °C	
Resolution	0.1 °	
Measurement interval	1 to 60 minutes, user programmable	
Expiry date and battery life	- Indicator can be started any time during shelf life - Started data logger runs until logger is stopped (max. expiry date +30 days) - Auto expiry date management: After expiry, display changes status and indicator cannot be started anymore - Use below 0 °C and above +40 °C for prolonged times can limit battery life	
Battery type	Button cell contained in equipment, UN3091, exempt from DGR declaration	
Certificate	Ilac/NIST/ISO 17025 traceable production calibration certificate	
Programmable alarms	- 8 temperature alarm levels with single or cumulative delays - Alarm on MKT - 2 temperature thresholds with alarm delay - Alarm on duration/run time	
Start-up delay	0 minutes to 24 h	
Display	Multifunction LCD, size: 23.5 × 23.5 mm, with large OK and ALARM indicator	
Display functionality	- Status: Conf, Start, Run, Stop - Current temperature measurement - OK, ALARM or blank - Configuration profile identification	
Report	Built-in PDF file generator automatically establishes an evaluation report with embedded 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.) - Statistics (min/max, average, alarm) and detailed indicator information (ID, configuration, etc.)	
Traceability	ID number (traceable to component level)	
Case dimension weight	ABS plastic material 96 × 37 × 11 mm (3.8 × 1.5 × 0.5 inch) 38 g (1.34 oz)	
Certifications	CE EN12830 EMC RTCA DO-160 RoHS WHO-PQS Safe Transport of Chemical Goods	
Indicator configuration and analysis software	liberoCONFIG and SmartStart software to create, store and manage individual settings in a settings profile. liberoMANAGER database as cloud service to store shipment reports and results, analyze shipments, manage release status and trigger customer specific workflows in cold chain processes.	