



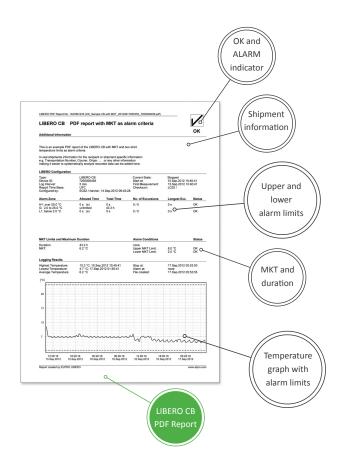
TECHNICAL SPECIFICATIONS LIBERO CB

LIBERO CB

The most cost-effective cold chain monitoring solution and database

LIBERO CB is the universal PDF Logger for almost any cold chain monitoring challenge. Wether you require strict upper and lower alarm limits, alarm on MKT or duration, LIBERO CB offers it all and allows you to individually set these limits. No need to keep different loggers in stock. Simply apply the correct configuration profile and add shipment information at the time of use and send off the logger. No equipment is required and no software needs to be installed. Read the PDF report and forward it to the sender or to liberoMANAGER, ELPRO's cold chain database, for further analysis.





we prove it.



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

Technical specifications LIBERO CB

Application area Cold Chain Monitoring — applications monitored with strict alarm limits, MKT or time Recording options and mode Type of probe Measurement range -20 °C70 °C Measurement accuracy ± 0.5 °C in the range of 0 °C425 °C ± 1.0 °C in the range of -10.0 °C0.1 °C as well as +25.1 °C450.0 °C ± 1.5 °C in the range of -20.0 °C10.1 °C as well as +50.1 °C470.0 °C Resolution 0.1 ° Measurement interval Memory capacity (run time) Expiry date & battery life - Data logger can be started any time during shelf life of 12 months - Started data logger runs until memory is full or logger is stopped - Auto expiry date management. After expiry, display changes status and logger cannot be started anymore - Long time operating ranger -10.0 °C95.0 °C for entire shelf life - Exposure to extreme conditions: 10 days at -20.0 °C and 10 days at +70.0 °C Certificate Programmable alarms Programmable alarms 2 temperature thresholds with alarm delay - Alarm on MKT - Alarm on MKT - Alarm on Microtion / Lop, size: 23.5 x 23.5 mm, with large OK and ALARM indicator Display functionality - Status: Conf, Start, Run (logging), Stop - Current temperature measurement - OK, ALARM or blank Report Report Report Report Report Report Report Report Automized a configuration 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) and detailed logger information (iD, configuration, etc.) - Chart visualizing the temperature curve and alarm limits Traceability Data logger configuration Mass plastic material / 96 x 37 x 11 mm (3.8 x 1.5 x 0.5 inch) / 38 g (1.34 oz) liberoCONFIG component level) Data logger configuration Information to PDF Loggers is downloadable free of charge.	Туре	PDF Logger with two alarm thresholds and alarm delay	
Recording options and mode Type of probe Measurement range Measurement accuracy All 1.0 °C. "C. "F.70 °C Measurement accuracy 1.0.5 °C in the range of 0 °C. "+25 °C 1.1.0 °C in the range of -10.0 °C. "-0.1 °C as well as +25.1 °C. "+50.0 °C 1.1.5 °C in the range of -20.0 °C. "-10.1 °C as well as +25.1 °C. "+50.0 °C 1.1.5 °C in the range of -20.0 °C. "-10.1 °C as well as +25.1 °C. "+70.0 °C Resolution Measurement interval 1.0 60 minutes, user programmable 8 °300 measuring data points (equals 60 days run time with 10 min interval) Expiry date & battery life - Data logger can be started any time during shelf life of 12 months - Started data logger runs until memory is full or logger is stopped - Auto expiry date management: After expiry, display changes status and logger cannot be started anymore - Long time operating range: -10.0 °C. "-50.0 °C for entire shelf life - Exposure to extreme conditions: 10 days at -20.0 °C and 10 days at +70.0 °C Certificate Programmable alarms - 2 temperature thresholds with alarm delay - Alarm on duration / logging time Start-up delay Display Multifunction LCD, size: 23.5 x 23.5 mm, with large OK and ALARM indicator - Status: Conf., Start, Run (logging), Stop - Current temperature measurement - OK, ALARM or blank - Configuration profile identification Report 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 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, (lD, configuration, etc.) - Chart visualizing the temperature curve and alarm limits Data logger configuration Basel statistics of log of x x x 11 mm			
Type of probe Measurement range Measurement range 20 °C+70 °C Measurement accuracy 2	••		
Measurment range Measurment accuracy ± 0.5 °C in the range of -0.0 °C+25 °C ± 1.0 °C in the range of -10.0 °C0.1 °C as well as +25.1 °C+50.0 °C ± 1.5 °C in the range of -20.0 °C10.1 °C as well as +25.1 °C+70.0 °C Resolution Measurement interval 1 to 60 minutes, user programmable Memory capacity (run time) Expiry date & battery life - Data logger can be started any time during shelf life of 12 months - Started data logger runs until memory is full or logger is stopped - Auto expiry date management: After expiry, display changes status and logger cannot be started anymore - Long time operating range: -10.0 °C450.0 °C for entire shelf life - Exposure to extreme conditions: 10 days at -20.0 °C and 10 days at +70.0 °C Certificate Programmable alarms - 2 temperature thresholds with alarm delay - Alarm on MKT - Alarm on duration / logging time Start-up delay Multifunction LCD. size: 23.5 x 23.5 mm, with large OK and ALARM indicator Display functionality - Status: Conf. Start, Run (logging), Stop - Current temperature measurement - OK, ALARM or blank - Configuration profile identification 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 1905-1 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) and detailed logger information (ID, configuration, etc.) - Chart visualizing the temperature curve and alarm limits Data logger configuration Basel satic material / 96 x 37 x 11 mm (3.8 x 1.5 x 0.5 inch) / 38 g (1.34 oz) BiberoCONFIG Software to create, store and manage individual settings in a logger profile as well as SmartStart, a liberoCONFIG component allowing a safe and quick	<u> </u>		
Measurment accuracy ± 0.5 °C in the range of 0 °C.+25 °C ± 1.0 °C in the range of -10.0 °C0.1 °C as well as +25.1 °C.+50.0 °C ± 1.5 °C in the range of -20.0 °C0.1 °C as well as +25.1 °C.+50.0 °C ± 1.5 °C in the range of -20.0 °C10.1 °C as well as +25.1 °C.+70.0 °C O.1 °C Resolution Measurement interval 1 to 60 minutes, user programmable 8'800 measuring data points (equals 60 days run time with 10 min interval) Expiry date & battery life - Data logger can be started any time during shelf life of 12 months - Started data logger runs until memory is full or logger is stopped - Auto expiry date management: After expiry, display changes status and logger cannot be started anymore - Long time operating range: -10.0 °C50.0 °C for entire shelf life - Exposure to extreme conditions: 10 days at -20.0 °C and 10 days at +70.0 °C Certificate Programmable alarms - 2 temperature thresholds with alarm delay - Alarm on MIT Alarm on MIT Alarm on MIT Alarm on duration / logging time Start-up delay Display Multifunction LCD, size: 23.5 x 23.5 mm, with large OK and ALARM indicator Display functionality - Status: Conf., Start, Run (logging), Stop - Current temperature measurement - Configuration profile identification 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 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 Di number (traceablie to component level) Data logger configuration Base plastic material / 96 x 37 x 11 mm (3.8 x 1.5 x 0.5 inch) / 38 g (1.34 oz) liberoCONFI			
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### ### ##############################	Measurment accuracy	± 0.5 °C in the range of 0 °C+25 °C	
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	Data logger configuration	liberoCONFIG software to create, store and manage individual settings in a logger profile as well as	
information to PDF Loggers is downloadable free of charge.		SmartStart, a liberoCONFIG component allowing a safe and quick application of profiles and shipment	
		information to PDF Loggers is downloadable free of o	charge.



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