

Cleanroom Management International Groupe TreScal



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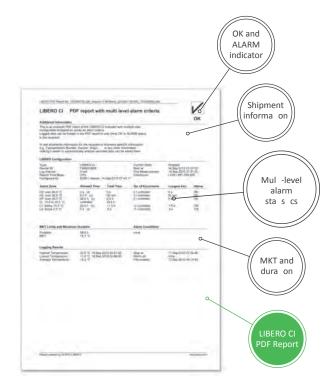
TECHNICAL SPECIFICATIONS LIBERO CI

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 crite- ria. 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.





we prove it.



- Simple and safe, no equipment, no so ware
- Quick implementa on, also by 3rd par es
- Compa ble with liberoMANAGER cold chain database
- 100% calibrated sensors and electronics
- Fully compliant with industry guidelines

Technical Speci ca ons LIBERO CI

Version 2019

Туре	PDF Indicator with mul ple alarm levels
Applicati n area	Cold Chain Monitoring – applica ons without need for temperature graph or tabular data
Recording opti n	Single use
Operati g 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 be er 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
Resoluti n	0.1°
Measurement interval	1 to 60 minutes, user programmable
Expiry date and ba ery life	 - Indicator can be started any me during shelf life - Started data logger runs un logger is stopped (max. expiry date +30 days) - Auto expiry date management: A er expiry, display changes status and indicator cannot be started anymor - Use below 0 °C and above +40 °C for prolonged mes can limit ba ery life
Ba ery type	Bu on cell contained in equipment, UN3091, exempt from DGR declara on
Certi ate	Ilac/NIST/ISO 17025 traceable produc on calibra on cer fi ate
Programmable alarms	 - 8 temperature alarm levels with single or cumula ve delays - Alarm on MKT - 2 temperature thresholds with alarm delay - Alarm on dura on/run me
Start-up delay	0 minutes to 24 h
Display	Mul func on LCD, size: 23.5 × 23.5 mm, with large OK and ALARM indicator
Display functi nality	- Status: Conf, Start, Run, Stop - Current temperature measurement - OK, ALARM or blank - Config ra on profile iden fi a on
Report	 Built-in PDF file generator automa cally establishes an evalua on report with embedded data upon connec on to an USB port. Complies with the ISO standard 19005-1 Document Management for the long-term preserva on of electronic documents (PDF/A) and FDA 21 CFR Part 11. Customizable report tle and file ame Text area for addi onal informa on (e.g. shipment informa on, instruc ons for recipient, etc.) Sta s cs (min/max, average, alarm) and detailed indicator informa on (ID, config ra on, etc.)
Traceability	ID number (traceable to component level)
Case dimension weight	ABS plas c material 96 × 37 × 11 mm (3.8 × 1.5 × 0.5 inch) 38 g (1.34 oz)
Certi ati ns	CE EN12830 EMC RTCA DO-160 RoHS WHO-PQS Safe Transport of Chemical Goods
Indicator confi urati n and analysis soft are	liberoCONFIG and SmartStart soft are to create, store and manage individual se gs in a se gs profile. liberoMANAGER database as cloud service to store shipment reports and results, analyze shipments, manage release status and trigger customer specifi workfl ws in cold chain processes.

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