

## Libero. New dimensions.

### The independent PDF Data Logger.



## Technical Specifications

Feature / Specifications	Libero Ti1	Libero Ti1-S
Type	Mobile Temperature Data Logger	
Record options	Multiple use	Single use
Record mode	<ul style="list-style-type: none"> <li>Start/stop mode</li> <li>Loop mode</li> </ul>	<ul style="list-style-type: none"> <li>Start/stop mode</li> </ul>
Temperature Measurement Range	-35°C to +70°C	
Temperature Accuracy	<ul style="list-style-type: none"> <li>+/- 0.2°C for the -10° to 25°C</li> <li>+/- 0.5°C for the ranges -35 to -10°C and 25° to 70°C</li> </ul>	
Memory Capacity	16'000 measuring data points	
Programmable measurement interval and display renewal	1 minute or more, programmable	
Programmable Temperature Alarms	a) 2 alarm limits or b) 5 multiple alarm ranges, conform with PDA Technical Report No 39 (Cold Chain Guidance for Medical Products: Maintaining the Quality of Temperature-sensitive Medicinal Products through the Transportation Environment)	
Start-Up Delay	0 minutes to 1 day	
Battery Life	3.6 V Lithium Battery 400 operating days during 3 years (on/off functionality)	3.0V Lithium Battery 100 days
Display	Multifunction LCD, size: 23.5 x 23.5 mm	
PDF Data Logger	Built-in PDF file generator that automatically establishes an evaluation file including chart.	
Evaluation Report (Adobe® PDF/A)	<ul style="list-style-type: none"> <li>Includes a text area, a chart visualizing the temperature curve of the current transport section and the raw data of all transport sections.</li> <li>See sample report: The colored areas can be defined by the sender and are configured at set-up. There are additional 8 lines at 80 characters available for sender-specific information.</li> </ul>	
Display Functionality	<ul style="list-style-type: none"> <li>Start &amp; End marking functionality with TRANSIT &amp; ARRIVED buttons</li> <li>Current temperature measurement (last stored value)</li> <li>Status OK or ALARM at exposure</li> <li>Indicator whether limit value has been exposed</li> <li>Remaining battery life in days</li> </ul>	
Interface	USB – PC Universal Serial Bus	
Case	ABS plastic material	
Protection Class	IP 65	
Dimensions	95 x 40 x 12 mm	
Weight	40 g	

# Libero Sample Analysis Report

Libero PDF Report No 56952

**Bio Pharmaceuticals Logistics Inc., Buchs, Switzerland**



OK

## Sender Information

1	Shipping No: 345	AWB-No. 65-LHX-9470-5005-06
2	Departure: 01/10/06	Origin: U.S.A.
3	Destination:	Bio Pharmaceuticals Logistics Inc., Buenos Aires, Argentina
4	Order No: 401.128040	
5	Instruction for user:	E-mail PDF report to quality@bppli.com and andrea.meier@elpro.com
6	Logger location:	Store file onto global network directory:
7		M:\quality\subsidiaries\Argentina\2006 shipments
8		Buchs, Switzerland - send Libero back with weekly return shipment

## Libero Configuration

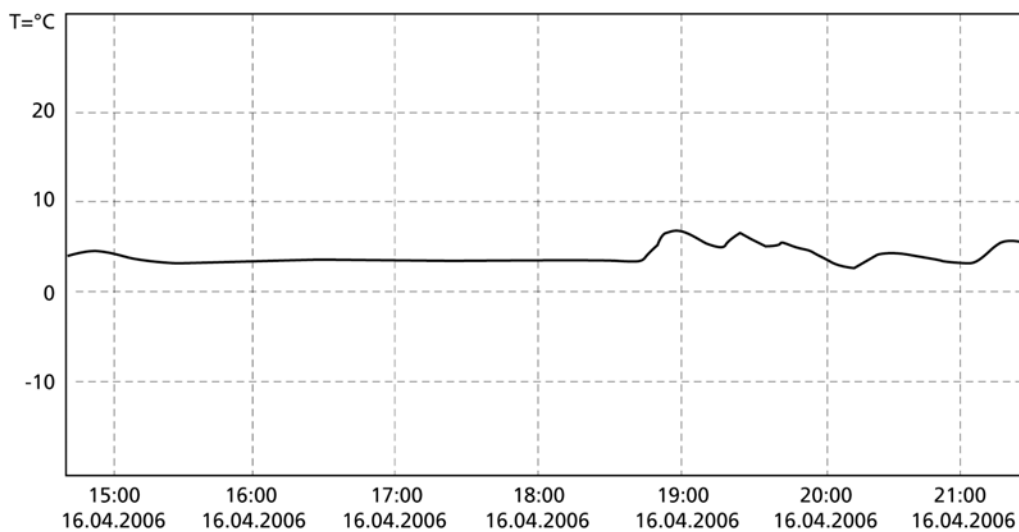
Logger ID:	000-325-634	Inspection Range:	Lanst Transit/Arrived
Log Interval / Duration:	10 min / 55d	Current State:	Logging / Transit
Run Mode:	Loop	Remaining Battery:	280 days
Time Base:	GMT +2	Logger Start:	14.04.2006 13:45:51
Configured by:	Login name, Host, 01.01.2006 14:15		

## Alarm Conditions

Upper threshold:	28 °C	Time above threshold:	1 h
Lower threshold:	2 °C	Time below threshold:	2 h
Alarm Delay:	5 min		

## Logging Results

Highest Temperature:	7.2 °C	Transit Start at:	14.04.2006 13:56
Lowest Temperature:	4.5 °C	Arrived at:	17.04.2006 09:10
Average Temperature:	6.3 °C	File created:	03.08.2006 16:54



Report created by Libero – the PDF Data Logger