

LIBERO Ti1-D

- Multi-Level PDF Logger
- Put directly into dry ice



TECHNICAL SPECIFICATIONS LIBERO Ti1-D

LIBERO Ti1-D

Multi-Level PDF Logger for direct placement into dry ice

LIBERO Ti1-D is the PDF Logger that simplifies your data logging requirements for dry ice shipments. With its internal temperature sensor and the extra battery power needed to withstand the tough dry ice environment, the LIBERO Ti1-D is the perfect solution to monitor dry ice shipments. Fully configurable by the user, supporting up to six temperature levels and the possibility to add shipment-specific information allows an individual configuration of the LIBERO Ti1-D. Release products based on the OK or ALARM status on the display, download the PDF report and forward it to the sender or to liberoMANAGER, ELPRO's cold chain database, for further analysis.

USB interface

Large display

Internal temperature sensor

Extra battery power

LIBERO Ti1-D PDF Logger

OK and ALARM indicator

Shipment information

Multi-level alarm statistics

Logging results and statistics

Temperature graph with alarm limits

LIBERO Ti1-D PDF Report

LIBERO Ti1-D PDF report of LIBERO Dry Ice PDF Logger

Additional Information

This is an example PDF report of the LIBERO Ti1-D with multiple alarm limits. In real shipments, information for the recipient or shipment specific information (e.g. Transportation Number, Carrier, Origin, ...) or any other information making it easier to systematically analyze recorded data can be added here.

Device Configuration		Inspection Range:	Last Transit to Arrived
Type:	Libero Ti1-D V1.35	Current Date:	Logging Arrived
Logger ID:	1401489	Remaining Battery:	100 %
Log Interval / Duration:	2 m / 22.2 d	Log Mode:	2012-11-20 12:33:54
Report Time Base:	GMT	Checksum:	0x11 / 3398 268 903
Configured by:	CS3, ECT2/cawker, 2012-11-20 11:37:54		

Alarm Zones	Allowed Time	Total Time	No. of violations	Status
Z1: over 0.0 °C	0 s (0m)	0 s	0 / warn.	OK
Z2: over 20.0 °C	0 s (0m)	0 s	0 / warn.	OK
Z3: over 40.0 °C	24.0 h (sum)	0 s	0 / warn.	OK
Z4: 40.0 to 60.0 °C	unlimited	60.7 h	0 / warn.	OK
Z5: below -80.0 °C	0 s (0m)	0 s	0 / warn.	OK
Z6: below -90.0 °C	0 s (0m)	0 s	0 / warn.	OK

Logging Results

Parameter	Value	Transit Start at	Transit End at
Highest Temperature:	-62.3 °C	2012-11-22 15:55:54	2012-11-20 12:33:54
Lowest Temperature:	-79.0 °C	2012-11-20 15:27:54	2012-11-23 07:16:02
Average Temperature:	-78.3 °C	Alarm at:	none
Min°C	-78.3 °C	File created:	2012-11-23 10:38:23

Temperature graph with alarm limits

we prove it.

