



LIBERO CS

- Multi-Level PDF Logger
- No equipment
- No software



TECHNICAL SPECIFICATIONS LIBERO CS

LIBERO CS

Multi-Level PDF Logger with Cold Chain Database

LIBERO CS is the PDF Logger that simplifies the shipment process for products with known stability data. Supporting up to eight alarm levels, MKT and duration as alarm criteria, the LIBERO CS allows the user to create temperature profiles for individual products. 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 and no software is required. 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.

LIBERO CS PDF Report with multi level alarm criteria

Additional Information

This is an example PDF report of the LIBERO CS with multiple temperature zones or alarm criteria representing stability data of the shipped product.

LIBERO Configuration

Type	LIBERO CS	Current State	Shipped
Device ID	7100000011	Stop at	14 Sep 2012 16:33:51
Log Interval	30 min	PDF Measurement	14 Sep 2012 16:33:51
Program Time Base	UTC	Checksum	LCDF13D184A891
Configuration	ESD12 version: 14 Sep 2012 08:17:04		

Alarm Zone

Alarm Zone	Allowed Time	Total Time	No. of Occurrences	Longest Exp.	Status
Hi: over 45.0 °C	0 s / 00	0 s	0 / unlimited	0 s	OK
Hi: over 35.0 °C	24 h / 01	0 s	0 / unlimited	0 s	OK
Hi: over 25.0 °C	5.0 h / 01	10 min	1 / unlimited	10 min	OK
Hi: over 15.0 °C	10.0 h / 01	20 min	1 / unlimited	20 min	OK
Lo: 15.0 to 25.0 °C	unlimited	00 min	1 / unlimited	11.5 h	OK
Lo: below 15.0 °C	5.0 h / 01	11.5 h	0 / unlimited	0 s	OK
Lo: below 0.0 °C	0 s / 00	0 s	0 / unlimited	0 s	OK

MKT Limits and Maximum Duration

MKT	Duration	Alarm Conditions
MKT	02.0 h	none
	20.0 °C	

Shipping Results

Parameter	Value	Stop at	File created
Highest Temperature	26.0 °C	15 Sep 2012 10:12:51	17 Sep 2012 07:38:05
Lowest Temperature	11.5 °C	17 Sep 2012 08:05:01	none
Average Temperature	18.3 °C		17 Sep 2012 08:08:41

Temperature Graph with alarm limits

The graph shows temperature (°C) on the y-axis (ranging from 0 to 40) against time on the x-axis (ranging from 06:00:00 to 17:00:00). A horizontal line at 25.0 °C represents the MKT limit. The temperature profile shows a peak above 25.0 °C around 10:00:00, followed by a dip below 15.0 °C around 16:00:00, and then a recovery towards 15.0 °C by 17:00:00.

we prove it.

