

The zLogg z1Lcd is an extremely accurate single-use data logger for temperature, with a detailed, multi-screen display. In addition to things like current date and time, serial number, firmware version, battery power, etc... the display also shows you information on logging interval, how it starts (manual, time, temperature) and stops (period, time or manual), start delay, running or stopped state, various alarm levels and alarm states, minimum, maximum, average and Mean Kinetic Temperature, etc — all by a simple click of the button.



Once plugged into the USB port, the logger works like a USB stick that holds the automatically generated ZLG, TXT, CSV and PDF files. No zLogg software needed.

Where other suppliers choose to accompany their loggers with a basic manufacturers certificate, mentioning specifications based on theoretical calculations and prefabrication tests, every zLogg z1 will be individually calibrated before it leaves our lab. Its unique, traceable calibration certificate can be found 'in the cloud' by clicking a link on the PDF generated by the logger.

## HIGHLIGHTS

- Extremely accurate over its whole measuring range
- Ultra-fine resolution of 0.01°C
- On line calibration certificate direct from link in PDF
- Auto-generated PDF build in
- Customizable PDF reports
- Auto-generated CSV and TXT reports
- Multi-screen display
- One-click information of most trip parameters
- Extra large memory (>20.000 records)
- Mark Readings
- Multi configurable, visual alarms
- Supports Windows/MacOSX/Linux
- Upgrade firmware with USB connection
- Free zLoggManager Software



### CALIBRATION CERTIFICATE

Brand zLogg ([www.z-logg.com](http://www.z-logg.com))  
Model z1LcdMini  
Serial no. ZM660072  
Performed by zLogg LLC  
Date of calibration 02-01-2017  
Valid til 02-01-2018

	Before adjustment		
	Offered T	19.92	58.68
Reading T	-27.97	20.12	58.21
Deviation	-0.22	-0.20	-0.13

#### Declaration calibration procedure zLogg loggers for temperature and/or relative humidity

zLogg LLC calibrates zLogg loggers for temperature and/or relative humidity, here after called the logger(s), according to the following procedure:

#### Humidity:

The technical calibration is performed in a room with a relative humidity level between 50% and 65%. In this room the loggers can stabilize for a period of one hour. After this period, the loggers are calibrated in a temperature and humidity controlled climate chamber (PT100, Vaportron H-100). After the required stabilization the humidity level is read with the aid of a Dostmann PHS500 with serial number 6509115 and compared to all sensors. Then the loggers are adjusted to get a maximum precision according to the manufacturers specifications of the concerned logger. The adjustment of the relative humidity level of each logger is being calculated through a computer and software at three check points and is recorded in the logger. The first checkpoint is performed at 55% RH and the second at 50% RH and the third at 70% RH. For each with a stabilization period of at least 90 minutes. The readings of the humidity level are changed and adjusted if needed.

#### Temperature:

Calibration of the temperature sensors is done at six temperature check points (e.g. at -38°C, -20°C, 0°C, 20°C, 40°C and 60°C). The required temperature is reached in a Tenney Junior Environmental Test Chamber. The climate chamber is checked with a Dostmann PHS5 Thermometer with serial number 650908115 equipped with a PT100 temperature sensor. The uncertainty is 0.015°C. After a minimal stabilization period of 90 minutes the temperature is read where possible as an average of the loggers last 10 samples. The applicable RVA traceability certificates of the used reference equipment (according to the calibration date) can be downloaded [here](#). It is recommended to calibrate your multi trip recorders once a year.

zLogg LLC

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**SPECIFICATIONS**

Order code	z1Lcd
Logger type	Single-use Temperature Data Logger
Sensor	Thermistor (Internal)
Memory	>20,000 records
Operating temperature	-40 °C ~ +80 °C (-40°F ~ +176°F)
Temperature measuring range	-40 °C ~ +80 °C (-40°F ~ +176°F)
Temperature accuracy	±0.3°C over the complete measuring range
Temperature resolution	0.01°C
Time accuracy	±15 minutes / year
Buttons	2, Start & Stop
Start options	Manual start with or without delay Auto Start on date and time Auto Start on set temperature with or without delay
Stop options	Auto Stop after a set period Auto Stop on date and time Manual Stop
Marked readings	8x
Log interval	1 minute to 24 Hours
Alarms	4, total and/or consecutive
Sensor response time	Better than 7 minutes (T90) in moving air.
Battery	CR2032, 3V Lithium button cell (Not replaceable)
Display	LCD reflective, 30 x 17mm
Connection/Interface	Direct to computer/USB Mass Storage Device
Auto generated files	ZLG, TXT, CSV, PDF (in all supported languages)
Export file types	ZLG, TXT, CSV, PDF
Software Support	zLoggManager
Compatibility	Windows, Mac OS X, Linux
Calibration	Individual calibration certificate per logger
Certificates	CE, RoHS
Dimensions	106 x 45 x 7mm
Weight	17g
Housing	Plastic sleeve (FDA approved PE)
Protection class	IP65
Warranty	1 year



**Various LCD Display modes:**

Standard display when recording  
Temperature at 2 decimal places, play, record, battery status & alarm status



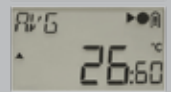
Displaying Maximum temperature



Displaying Minimum temperature

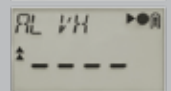


Displaying Average temperature



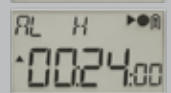
VERY HIGH Alarm status

There is no VH alarm so information is blank



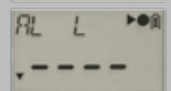
High Alarm status

There is H alarm so information is displayed



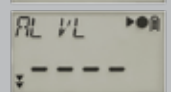
LOW Alarm status

There is no L alarm so information is blank



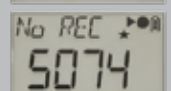
VERY LOW Alarm status

There is no VL alarm so information is blank



Status - Number of records

Total number records taken is displayed



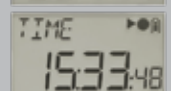
Date

Displayed is the format configured dd/mm/yy



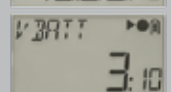
Time

Current time (logger time) is displayed



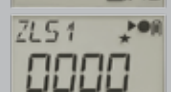
Battery voltage status

Displaying realtime battery voltage



Serial Number

Displaying the loggers serial number.



Firmware version on LCD

Displaying the loggers serial number.

