

The zLogg z1LcdMu is an extremely accurate multi-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 (>48.000 records)
- Mark Readings
- Multi configurable, visual alarms
- Supports Windows/MacOSX/Linux
- Upgrade firmware with USB connection
- Free zLoggManager Software

zLogg LLC

CALIBRATION CERTIFICATE

Brand: zLogg (www.z-logg.com)
 Model: z1LcdMu
 Serial no.: ZM660072
 Performed by: zLogg LLC
 Date of calibration: 02-01-2017
 Valid til: 02-01-2018

| | Before adjustment | | |
|-----------|-------------------|-------|-------|
| Offered T | -28.19 | 19.92 | 58.68 |
| Reading T | -27.97 | 20.12 | 58.21 |
| Deviation | +0.22 | -0.20 | +0.47 |

Declaration calibration procedure z1Logg loggers for temperature and/or relative humidity

zLogg LLC calibrates z1Logg 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 90 minutes. After this period, the loggers are calibrated in a temperature and humidity controlled climate chamber (Vaportron H-100). After the required stabilization the humidity level is read with the aid of a Dostmann PHS 66 with serial number 65509115 and compared to all sensors. Then the loggers are adjusted to get a maximum deviation 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. 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 50°C). The required temperature is reached in a Tenney Junior Environmental Test Chamber. The climate chamber is checked with a Dostmann PHS 665 Thermometer with serial number 655090115 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

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|-----------------------------|--|
| Order code | z1LcdMu |
| Logger type | Multi-use Temperature Data Logger |
| Sensor | Thermistor (Internal) |
| Memory | >48,000 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 second 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 |
| 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 | 35 x 103 x 11mm |
| Weight | 31g |
| Housing | ABS or Polycarbonate |
| Protection class | IP65 |
| Security | Password protection |
| Optional accessories | Protective rubber boot (5 colors) |
| 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.

