

The zLogg z1LcdMuH is an extremely accurate multi-use data logger for temperature and humidity, 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 0.015°C and 0.01%RH.
- 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 z1LcdMuH
Serial no. ZMEC0001
Performed by zLogg LLC
Date of calibration 19-12-2016
Valid til 19-12-2017

	Before adjustment		
Offered T	-33.10	19.32	71.94
Reading T	-32.91	19.43	71.76
Deviation	-0.19	-0.11	0.18

Offered RH	32.24	49.76	76.13
Reading RH	32.55	49.08	75.69
Deviation	-0.31	0.68	0.44

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

zLogg LLC calibrates zLogg loggers for temperature and/or humidity 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 at least 90 minutes. After this period, the loggers are calibrated in a temperature and humidity controlled climate chamber (Transportation HI-100) after the required stabilization the humidity level is read with the aid of a Dostmann PHS 255 with serial number 6550906019 and compared to all sensors. Then the loggers are adjusted to their 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 checkpoints and is recorded in the logger. The first checkpoint is performed at 55% RH and the second at 50% RH and the third at 78% at 0°C each with a stabilization period of at least 90 minutes. The readings of the humidity levels are read 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 PHS Thermometer with serial number 6550906115 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	z1LcdMuH
Logger type	Multi-use Temperature & Humidity Data Logger
Sensor	Digital Sensirion SHT31
Memory	>48,000 records
Operating range	-40°C ~ +80°C (-40°F ~ +176°F) & 0 ~ 100%RH
Measuring range	-40°C ~ +80°C (-40°F ~ +176°F) & 0 ~ 100%RH
Accuracy	±0.3 °C over the complete measuring range ±2 %RH from 0% to 90%
Resolution	0.015 °C and 0.01 %RH
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	Polycarbonate
Protection class	IP30
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.

