

The zLogg z1 is an extremely accurate and low cost single-use data logger for temperature, with 5X LED — blue for low alarms, green for no alarm and red for high alarms, visual indication of the current status (recording, stopped, battery level). The battery (non-replaceable) has a shelf life of 1 to 2 years for regular usage. When not in use, the logger is automatically placed in sleep mode to save the battery.



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
- 5 x Leds for alarms, status and battery indication
- Large memory (45,568 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: z1LLCmu  
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	-0.13

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

zLogg LLC calibrates zLogg loggers for temperature and/or relative 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 four hours. After the required stabilization the humidity level is read with the aid of a Dostmann P655, with a sensor number 6550000115 and compared to all sensors. Then the loggers are adjusted to meet the maximum deviation according to the manufacturers specifications of the concerned logger. The adjustment of the reading humidity level of each logger is being calculated through a computer and software at three checkpoints and is reviewed by the logger. The first checkpoint is performed at 32% RH and the second at 50% RH and the third at 76% at 3°C each with a stabilization period of at least 90 minutes. The readings of the humidity levels are then read and adjusted if needed.

#### Temperature:

Calibration of 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 P655 Thermometer with serial number 6550000115 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

*Signature*

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## SPECIFICATIONS

Order code	z1
Logger type	Single-use Temperature Data Logger
Sensor	Thermistor (Internal)
Memory	45,568 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	Not replaceable
Battery life	1 to 2 years for a normal usage
Display	5 x LEDs blue, green, red
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	90 x 51 x 4.5mm
Weight	10g
Housing	Plastic Sleeve
Protection class	IP67
Warranty	1 year



### Start, Stop & LED:

- **Ready:** Green led blink every 8sec.
- **Record:** led blink twice every 4sec.
- **Battery:** press and hold both buttons. Green= High  
Red = Medium  
Blue = Low
- **Start:** Press and hold green button.
- **Stop:** Press and hold red button.

