



Features

- Industry-leading precision and accuracy
- Printed reports for any time period
- 10-year battery
- Validation and continuous monitoring with the same model
- Two year limited warranty
- Superior alternative to chart recorders and hard-wired systems
- Timebase calibrated over the operating temperature range
- Adjustable time based recording
- Snap-in logger cradle for easy network connectivity
- Two probe options give high accuracy – from -90 °C to +70 °C
- Traceable to SI units through national metrology institutes.

The 1000/1400 temperature data loggers include the VL series for regulated environments and the SP series for non FDA/GxP regulated industries.

VL series and SP series dataloggers

The VL series of data loggers, together with vLog VL software, provide a superior, high accuracy solution for use in FDA/GxP regulated environments by ensuring tamperproof files and electronic records that meet 21 CFR Part 11 requirements.

The 1000/1400 temperature data loggers include calibrations traceable to SI units through national metrology institutes.³⁾

The SP-series provides a compact, easily deployable, highly accurate measurement and recording device. Coupled with vLog SP software for

downloading, displaying, analyzing and reporting of recorded environmental data, the SP-series was designed for use in non FDA/GxP regulated environments.

Optional browser-based viewLinc software provides 24/7 multi-stage alarm notification and remote monitoring for both the VL and SP series of data loggers.

Applications

The 1000/1400 temperature data loggers are ideal for monitoring and validation of:

- Refrigerators and freezers (to -90 °C)
- Incubators

- Stability Chambers
- Warehouses
- Ambient conditions

Autonomous Power and Recording Capacity

Each data logger contains a 10-year battery and onboard memory for recording at the point of measurement. With autonomous power and recording capacity, data is immune to network and power interruptions.

³⁾ Measurement results are traceable to the international system of units (SI) through national metrology institutes (NIST USA, MIKES Finland, or equivalent) or ISO/IEC 17025 accredited calibration laboratories.

Technical Data

General

Interfaces	RS-232 serial, USB, Ethernet, WiFi, PoE network interface available
PC software	Graphing & Reporting Software vLog SP for SP series vLog VL for VL series viewLinc for continuous monitoring and alarming OPC Server to add on to existing OPC compatible monitoring systems
Internal clock	Accuracy ±1 min/month -25 °C ... +70 °C (-13 °F ... +158 °F)
Logger operating/ Storage range	-40 °C ... +85 °C (-40 °F ... +185 °F) 0 ... 100 %RH non-condensing
Power source	Internal 10-year lithium battery (Battery life specified with sample interval of 1 min or longer)
Electromagnetic compatibility	FCC Part 15 and CE EN 50581:2012 EN 55032:2012/AC:2013 Class B EN 61326-1:2013
RoHS compliance	2011/65/EU



VL-1000-21x

Mechanical Specifications

Size	85 × 59 × 26 mm (3.4 × 2.3 × 1 in)
Weight	76 g (2.7 oz)
Mounting	3M Dual Lock™ fasteners Snap-in connector locks provide secure probe connections

Internal Temperature Sensor

1000-21x series	Precision-tolerance epoxy-encapsulated NTC thermistor
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Memory

1000-2XX series	48 100 12-bit samples
1400-44X series	85 300 12-bit samples
Memory type	Non-volatile EEPROM
Memory modes	User selectable: wrap (FIFO) or stop when memory is full. User selectable start time. User selectable stop time (VL-series only).
Sampling rates	User-selectable (in 10 second intervals) from once every 10 seconds to once a day.



VL-1000-22x

Recording Span: 1000-2xx

Sample Interval	Number of Channels Enabled	
	1	2
10 seconds	5.5 days	2.7 days
1 minute	1.1 months	16.7 days
5 minutes	5.5 months	2.7 months
15 minutes	1.3 years	8.3 months
1 hour	5.4 years	2.7 years