

> Temperature Data Recorders — Veriteq 1000/1400 Series



Veriteq's 1000/1400 series data recorders includes the VL-series for regulated environments and the SP-series for non FDA/GxP industries.

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

The SP-series provides a compact, easily deployable, highly accurate measurement and recording device for use in non FDA/GxP regulated industries. Coupled with Spectrum 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 recorders.

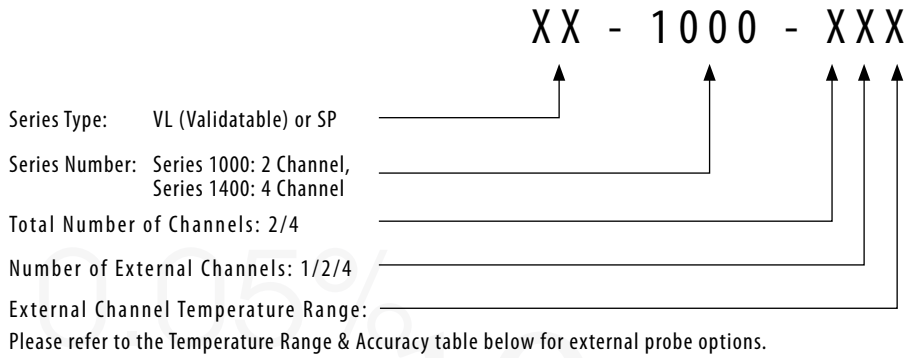
Additional system features include:

- > Industry-leading precision and accuracy
- > Adjustable time based recording
- > Printed reports for any time period
- > Extended long-life 10-year battery
- > Validation and continuous monitoring with the same model
- > Two year limited warranty
- > Superior alternative to chart recorders and hard-wired systems
- > NIST-traceable, A2LA accredited calibration
- > Timebase calibrated over the operating temperature range
- > Snap-in logger cradle for easy network connectivity

GENERAL

Size	Interfaces	Mounting	PC Software	Internal Clock	Electromagnetic Compatibility	Power Source
85 x 59 x 26mm (3.4 x 2.3 x 1") 76g (2.7oz)	RS-232 serial, USB, Ethernet, WiFi, PoE network interface available	Magnetic strips, 3M Dual Lock™ Fasteners Snap-in connector locks provide secure probe connections	Graphing & Reporting Software Spectrum for SP-series vLog for VL-series viewLinc for continuous monitoring & alarming OPC Server to add on to existing OPC compatible monitoring systems	Accuracy ±1 min. /month -25°C to +70°C (-13°F to +158°F)	FCC Part 15 and CE	Internal 10-year lithium battery (Battery life specified with sample interval of 1 min. or longer)

Product Part Number Legend: Guide for reading the product tables and selecting the most appropriate model for your application.



TEMPERATURE RANGE & ACCURACY

Series	Sensor	Calibrated Measurement Range	Storage Range	Initial Accuracy*	One Year Accuracy*	Resolution
1000-2XX 1400-44X	Internal	-25°C to +70°C (-13°F to +158°F)	-40°C to +85°C (-40°F to +185°F) 0%RH to 100%RH non-condensing	±0.10°C over +20°C to +30°C (±0.18°F over +68°F to +86°F) ±0.15°C over -25°C to +70°C (±0.27°F over -13°F to +158°F)	±0.15°C over +20°C to +30°C (±0.27°F over +68°F to +86°F) ±0.25°C over -25°C to +70°C (±0.45°F over -13°F to +158°F)	0.02°C at +25°C (0.04°F at +77°F)
	"N" Range External Probe	-25°C to +70°C (-13°F to +158°F)	-40°C to +95°C (-40°F to +203°F)	±0.10°C over +20°C to +30°C (±0.18°F over +68°F to +86°F) ±0.15°C over -25°C to +70°C (±0.27°F over -13°F to +158°F)	±0.15°C over +20°C to +30°C (±0.27°F over +68°F to +86°F) ±0.25°C over -25°C to +70°C (±0.45°F over -13°F to +158°F)	0.02°C at +25°C (0.04°F at +77°F)
	"L" Range External Probe	-50°C to +10°C (-58°F to +50°F)	-60°C to +95°C (-76°F to +203°F)	±0.15°C over -50°C to +10°C (±0.27°F over -58°F to +50°F)	±0.25°C over -50°C to +10°C (±0.45°F over -58°F to +50°F)	0.02°C at -20°C (0.04°F at -4°F)
	"V" Range External Probe	-90°C to -40°C (-130°F to -40°F)	-95°C to +95°C (-139°F to +203°F)	±0.15°C over -90°C to -40°C (±0.27°F over -130°F to -40°F)	±0.25°C over -90°C to -40°C (±0.45°F over -130°F to -40°F)	0.02°C at -80°C (0.04°F at -112°F)
1000-LT	Internal	-40°C to +40°C (-40°F to +104°F)	-40°C to +85°C (-40°F to +185°F)	±0.25°C over -40°C to +40°C (±0.45°F over -40°F to +104°F)	±0.5°C over -40°C to +40°C (±0.9°F over -40°F to +104°F)	0.02°C at 0°C (0.04°F at +32°F)
	"L" Range External Probe	-40°C to +40°C (-40°F to +104°F)	-60°C to +95°C (-76°F to +203°F)	±0.25°C over -40°C to +40°C (±0.45°F over -40°F to +104°F)	±0.5°C over -40°C to +40°C (±0.9°F over -40°F to +104°F)	0.02°C at 0°C (0.04°F at +32°F)

*Specification for external channels is for a probe calibrated to the specific channel of the data logger and with the logger at -25°C to +70°C (-13°F to +158°F).



VERITEQ

Superior Temperature & Humidity Monitoring



VL-1000-21N



VL-1000-22N



VL-1400-44N

INTERNAL TEMPERATURE SENSOR

Series	Sensor Type
1000-21X 1000-LT	Precision-tolerance epoxy-encapsulated NTC thermistor

MEMORY

Series	Data Sample Capacity	Memory Type	Memory Modes	Sampling Rates
1000-2XX 1000-LT	48,100 12-bit samples	Non-volatile EEROM	User-selectable. Wrap (FIFO) or stop when memory is full. User selectable start time. User selectable stop time (VL series only).	User-selectable (in 10 second intervals) from one every 10 seconds to once a day. (Battery life specified with sample interval of 1 min. or longer)
1400-44X	85,300 12-bit samples			

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

RECORDING SPAN: 1400 - 44X

Sample Interval	Number of Channels Enabled			
	1	2	3	4
10 Seconds	9.8 Days	4.9 Days	3.2 Days	2.4 Days
1 Minute	1.9 Months	29.6 Days	19.7 Days	14.8 Days
5 Minutes	9.8 Months	4.9 Months	3.2 Months	2.4 Months
15 Minutes	2.4 Years	1.2 Years	9.8 Months	7.4 Months
1 Hour	9.7 Years	4.8 Years	3.2 Years	2.4 Years

EPT SERIES TEMPERATURE PROBES

Series	Sensor	Storage Range	Connector Color Code	Sensor Tip	Probe Length	Cable Construction
EPT-23N-XXN	"N" Range External Probe	-40°C to +95°C (-40°F to +203°F)	Black	Stainless Steel, Diameter: 3.2mm (1/8") Length: 38mm (1.5")	"XX" denotes the length of the probe in feet. 3m (10') and 7.6m (25') lengths available	2mm (0.07") Diameter, Teflon coated cable
EPT-23N-XXL	"L" Range External Probe	-60°C to +95°C (-76°F to +203°F)	Green			
EPT-23N-XXV	"V" Range External Probe	-95°C to +95°C (-139°F to +203°F)	Blue			
EPT-22W-10N	"N" Range External Probe	-40°C to +95°C (-40°F to +203°F)	Black	Sealed Teflon Tip Diameter: 3mm (0.12") Length: 28mm (1.1")	3m (10')	2mm (0.07") Diameter, Teflon coated cable
EPT-22W-10L	"L" Range External Probe	-60°C to +95°C (-76°F to +203°F)	Green			

TEMPERATURE PROBE ACCESSORIES

EPT-TDB: Thermal Dampening Block, for use in refrigerators and freezers. Simulates a glycol bottle to reduce viewLinc alarms generated by opening and closing a door.

