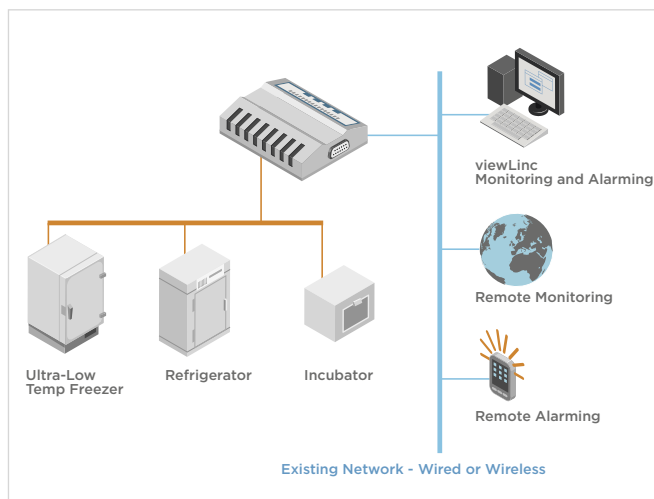


Vaisala Veriteq Multi-application Temperature Data Recorder Series 1016/1416



Features/Benefits

- Industry-leading precision and accuracy
- Real-time monitoring & alarming with viewLinc
- Easy connectivity to your existing network —wired or wireless
- Validation and continuous monitoring with the same device
- Superior alternative to chart recorders and hard-wired systems
- NIST-traceable, A2LA accredited calibration

MODEL NUMBERS & CHANNEL CAPACITY

- VL-1016-22 V
Two external channels for validatable applications
- VL-1416-44 V
Four external channels for validatable applications
- SP-1016-22 V
Two external channels
- SP-1416-44 V
Four external channels

Multi-application temperature data recorders monitor temperatures from four applications with one recorder—ultra low temperature freezers, freezer/refrigerators and incubators.

The VL-series data recorders, along with vLog™ reporting software, provide tamper-proof files and encrypted electronic records to meet 21 CFR Part 11 requirements. Also

available, the SP-series recorders for non FDA/GxP regulated industries allow you to easily download, display, analyze and report for any time period. Optional browser-based viewLinc™ Monitoring and Alarming software can be used with both VL and SP data recorders for 24/7, real-time alarm notification, monitoring and reporting.

Technical Data

General

Size	85 x 59 x 26 mm (3.4 x 2.3 x 1") 76 g (2.7oz)
Interfaces	RS-232 serial, USB, Ethernet, WiFi, PoE network interface available
Mounting	Magnetic strips, 3M Dual Lock™ Fasteners
PC Software	Snap-in connector locks provide secure probe connections vLog Graphing & Reporting Software viewLinc for continuous monitoring & alarming OPC Server to add Vaisala recorders to any OPC compatible monitoring system
Internal Clock	Accuracy ±1 min./month 0 °C to +50 °C (32 °F to +122 °F)
Electromagnetic Compatibility	FCC Part 15 and CE
Power Source	Internal 10-year lithium battery (Battery life specified with sample interval of 1 min. or longer)

Technical Data

Temperature Range & Accuracy

Sensor	"V" Range External Probe
Calibrated	-90 °C to +50 °C
Measurement Range	(-130 °F to +122 °F)
Operating Range	-95 °C to +70 °C
Range	(-139 °F to +158 °F)
Initial Accuracy*	±0.25 °C over -90 °C to +50 °C (±0.45 °F over -130 °F to +122 °F)
One Year Accuracy*	±0.35 °C over -90 °C to +50 °C (±0.63 °F over -130 °F to +122 °F)
Resolution	0.01 °C at +25 °C (0.02 °F at +77 °F)

1016 Series

Data Sample Capacity	68,600 16 bit samples
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1416 series

Data sample Capacity	101,375 16 bit samples
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1016 and 1416 series

Memory type	non-volatile EEROM
Memory Modes	User-selectable rates from once every 10 seconds to once per day. (Battery life specified with sample interval of 1 min. or longer)
Sampling Rates	User-selectable rates from once every 10 seconds to once per day. (Battery life specified with sample interval of 1 min. or longer)

Recording Span: 1016-22V

SAMPLE INTERVAL	NUMBER OF CHANNELS ENABLED	
	1	2
1 Minute	1.5 Months	23.8 Days
5 Minutes	7.6 Months	3.8 Months
15 Minutes	1.9 Years	11.5 Months
1 Hour	7.8 Years	3.9 Years

*Specification for external channels is for a probe calibrated to the specified to the specified channel of the data recorder, with the recorder at 0 °C to +50 °C (32 °F to +77 °F)

Recording Span: 1416-44V

SAMPLE INTERVAL	NUMBER OF CHANNELS ENABLED			
	1	2	3	4
1 Minute	2.3 Months	1.1 Months	23.5 Days	17.6 Days
5 Minutes	11.3 Months	5.6 Months	3.7 Months	2.8 Months
15 Minutes	2.8 Years	1.4 Years	11.3 Months	8.5 Months
1 Hour	11.5 Years	5.7 Years	3.8 Years	2.8 Years

EPT-23N-XXV series and EPT-22W-10V series

Sensor	"V" Range External Probe
Operating Range	-95 °C to +70 °C (-139 °F to +158 °F)
Connector Color Code	Blue
Sensor Tip	Stainless Steel, Diameter: 3.2 mm (1/8"), Length: 38 mm (1.5") Sealed Teflon Tip Diameter: 3 mm (0.12"), Length: 28 mm (1.1")
Probe Length	"XX" denotes the length of the probe in feet. 3 m (10') and 7.6 m (25') lengths available
Cable Construction	2 mm (0.07") Diameter, Teflon coated cable

EPT-23N-XXV series

Sensor Tip	Stainless Steel, Diameter: 3.2 mm (1/8") Length: 38 mm (1.5")
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EPT-22W-10V series

Sensor Tip	Sealed Teflon Tip Diameter: 3 mm (0.12") Length: 28 mm (1.1")
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Temperature Probe Accessories

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

VAISALA

For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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