VERITEQ
Superior Temperature & Humidity Monitoring

> The Veriteq 4000 Series Universal Input Data Recorder

Veriteq's 4000 Series of data recorders are designed to interface with a wide range of transducers, transmitters, and sensors with a DC voltage or 4-20 mA current loop output. The 4000 is a simple solution for recording and monitoring pressure, flow, fluid level, PH, electrical properties, moisture and gas concentrations.

Ideal for use in standalone or networked applications, the 4000 Universal Input recorder connects directly to a PC with USB or installs to an existing network via Ethernet, Power over Ethernet or WiFi. Each recorder contains a 10-year battery and onboard memory for recording a wide range of variables at the point of measurement. With autonomous power and recording capacity, data is immune to network and power interruptions.

The 4000 data recorders can be used with Veriteq software to download, display, and analyze environmental data as well as provide tamper-proof electronic records that meet 21 CFR Part 11 requirements. The optional browser-based viewLinc™ system provides 24/7 multi-stage alarm notification, remote, real-time monitoring and gap-free data. Reports are customizable and can be exported to excel.

Additional system features:

- Long-life 10-year battery and large onboard memory
- Single and multi-channel models with up to four input channels
- Easily set scaling and measurement units for recording
- Time-based digital recording in a range of sample intervals
- Multiple connectivity options - USB, Ethernet, WiFi
- Optional vNet cradle for Ethernet or Power over Ethernet connectivity
- NIST-traceable calibration
- Two year limited warranty

GENERAL

Size	Operating Range	Interfaces	Mounting	PC Software	Internal Clock	Electromagnetic Compatibility	Power Source
85 x 59 x 26 mm (3.4 x 2.3 x 1") 76g (2.7 oz)	-40°C to +85°C (-40°F to +185°F) and 0%RH to 100%RH (non-condensing)	> RS-232 serial > USB > WiFi > Ethernet and Power over Ethernet (vNet)	Magnetic strips, 3M Dual Lock™ fasteners	Graphing & Reporting: > Spectrum > vLog (FDA/GxP regulated) Monitoring, Alarming,Reporting: > viewLinc™	Accuracy ±1 min./ month @ -25°C to +70°C (-13°F to +158°F)	FCC Part 15 and CE EN 55022:2006 EN 61000-4-2:2001 EN 61000-4-3:2006	Internal 10-year lithium battery (Battery life specified with sample interval of 1 min. or longer)

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MEMORY

Memory Type	Non-volatile EEROM
Data Sample Capacity	120,000 12-bit samples
Memory Modes	User-selectable wrap (FIFO) or stop when memory is full. User-selectable start and stop times.
Sampling Rates	User-selectable (in 10 second intervals) from once every 10 seconds to once a day. (Battery life specified with sample interval of 1 min. or longer)
Recording Span	Recording span depends upon sample interval selected and number of channels enabled. Please see table below.

RECORDING SPAN

Sample Interval	**Number of Channels**			
	1	2	3	4
10 seconds	13.8 days	6.9 days	4.6 days	3.4 days
1 minute	2.7 months	1.3 months	27.7 days	20.8 days
5 minutes	1.1 years	6.9 months	4.6 months	3.4 months
15 minutes	3.4 years	1.7 years	1.1 years	10.4 months
1 hour	13.6 years	6.8 years	4.5 years	3.4 years

CURRENT LOOP & VOLTAGE INPUTS

Input Type	**Current Loop**	**Analog Voltage**
Available Ranges	0 to 22 mA	0 to 5 VDC, 0 to 10 VDC
Resolution	5.5 µA	0.025% F.S.
Accuracy	±0.15% F.S. at +25°C (+77°F)	±0.15% F.S. at +25°C (+77°F)
Input Impedances	75 Ohms	>1 MOhm
Isolation	One common per logger	One common per logger
Overload Protection	40 mA max. (reverse-polarity protected)	±24 VDC max. (reverse-polarity protected)

CHANNEL CONFIGURATIONS

Model	**1, 2 or 4 Channels**
4000-405	0 to 5 VDC
4000-40A	0 to 10 VDC
4000-40C	4 to 20 mA

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