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Environmental Mapping/Validation *When Humidity & Temperature are Critical*



Productivity & Accuracy without Compromise

- > Easy to Deploy & Fast Setup
- > Secure, Presentation-ready Reports
- > Unique 1-Year Accuracy for Better Results



VERITEQ
Superior Temperature & Humidity Monitoring

Veriteq, a Vaisala company

>>> Mapping & Validation

Faster Set-up, Lower Costs, Better Results

Compliance with strict regulatory guidelines and quality requirements demands accurate measurement, secure data, and comprehensive reporting. Unlike any competitive product, the vLog™ system specifies temperature and relative humidity accuracy for one year, eliminating the cost of frequent calibration. It's an easy-to-use, cost-saving, high-accuracy solution for mapping critical and FDA-regulated environments — from stability chambers, to freezers, to warehouses.

Unmatched Performance & Cost Savings

The vLog system is the most accurate and effective solution for understanding your environments and complying with regulations. With easy set-up and placement of self-contained data loggers, you can be mapping a chamber in minutes. Each logger contains highly stable sensors, large internal memory, and a 10-year battery, eliminating the threat of power failure or lost data — while saving time and money with fast deployment.

vLog maintains all data and events in secure files, providing tamper-proof security with presentation-ready reports. You always have documentation on hand to evaluate each test quickly and meet 21 CFR Part 11.

The vLog system provides:

- > Temperature: -90 to 70°C, up to 0.1°C accuracy and 0.02°C resolution
- > Relative Humidity: 1 to 95%, up to 1% accuracy and 0.05% resolution
- > Audit trail, 21 CFR 11 compliant graph and tabular reporting
- > Accuracy ensured for one year, eliminating the need for frequent calibration

Unlike other products that only state accuracy when equipment leaves the factory, Veriteq's instruments are calibrated to maintain accuracy for one full year. Each one has NIST-traceable certification from our A2LA-accredited calibration lab. Calibrations are performed at a minimum of 5 points and can be tailored to any customer requirement — including ICH guidelines.

"The Veriteq IQ/OQ protocol is very nicely done... [it's] very complete and saved us 2-3 weeks of work."

- Stephan Montag
Head of IT



"After researching several companies that offer data loggers for temperature validation, the decision to purchase from Veriteq was easy. The software is Part 11 compliant and the protocol is outstanding!"

- Jean Wilson
Senior Stability Scientist

> > >

Flexible & Secure Reporting

- > **Quick Visual of Results**
Display temperature and humidity on one graph or separate graphs. Use cursor lines for quick indication that your study ran successfully.
- > **Quality Reports with Simple Check-box Selection**
Create standard and customized documents fast, including statistics such as min, max and avg values, Mean Kinetic Temperature and other calculations, or export generic .csv files for further analysis.
- > **System-wide Traceability & Secure Data**
With vLog's validated audit trail, no interaction with the system goes unrecorded. Data remains secure and tamper-proof, ensuring reports are always compliant with 21 CFR Part 11.
- > **Industry-standard Security Access**
Use all the capabilities of Windows password authentication so your IT staff can implement what they already use to protect other company assets.
- > **Ease of Use & Industry Best Reliability**
Simply place the data loggers where you need them — no wires to handle. Their 10-year battery, internal memory, and stable sensors let you focus on test results instead of time-consuming set-up and re-calibrations.



> > > *Ideal for mapping ICH Stability areas, Freezers, Refrigerators, Incubators and Warehouses.*

"The Veriteq validation system reduced our setup time for temperature mapping by at least 80%."

- Stephanie Cowan
Validation Specialist

> > > *Reports can be generated in tabular or graphical formats. Customizable graphics include limit lines for viewing results at a glance.*

Temperature Data Report											
Location	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
Freezer 1	-15.2	-14.8	-15.0	-15.1	-14.9	-15.0	-15.3	-14.7	-15.0	-15.4	-14.6
Freezer 2	-15.5	-15.1	-15.3	-15.4	-15.0	-15.2	-15.6	-14.8	-15.2	-15.8	-14.6
Freezer 3	-15.8	-15.4	-15.6	-15.7	-15.3	-15.5	-16.0	-15.2	-15.7	-16.4	-15.0
Freezer 4	-16.1	-15.7	-15.9	-16.0	-15.6	-15.8	-16.5	-15.5	-16.0	-16.8	-15.2
Freezer 5	-16.4	-16.0	-16.2	-16.3	-15.9	-16.1	-16.6	-15.8	-16.3	-17.0	-15.5
Freezer 6	-16.7	-16.3	-16.5	-16.4	-16.0	-16.2	-16.7	-15.9	-16.4	-17.1	-15.6
Freezer 7	-17.0	-16.6	-16.8	-16.7	-16.3	-16.5	-17.0	-16.2	-16.7	-17.4	-15.8
Freezer 8	-17.3	-16.9	-17.1	-17.0	-16.6	-16.8	-17.3	-16.5	-17.0	-17.7	-16.0
Freezer 9	-17.6	-17.2	-17.4	-17.3	-16.9	-17.1	-17.6	-16.8	-17.3	-18.0	-16.3
Freezer 10	-17.9	-17.5	-17.7	-17.6	-17.2	-17.4	-17.9	-17.1	-17.6	-18.3	-16.6
Freezer 11	-18.2	-17.8	-18.0	-17.9	-17.5	-17.7	-18.2	-17.4	-17.9	-18.6	-16.9
Freezer 12	-18.5	-18.1	-18.3	-18.2	-17.8	-18.0	-18.5	-17.7	-18.2	-18.9	-17.2
Freezer 13	-18.8	-18.4	-18.6	-18.5	-18.1	-18.3	-18.8	-18.0	-18.5	-19.2	-17.5
Freezer 14	-19.1	-18.7	-18.9	-18.8	-18.4	-18.6	-19.1	-18.3	-18.8	-19.5	-17.8
Freezer 15	-19.4	-19.0	-19.2	-19.1	-18.7	-18.9	-19.4	-18.6	-19.1	-19.8	-18.1
Freezer 16	-19.7	-19.3	-19.5	-19.4	-19.0	-19.2	-19.7	-18.9	-19.4	-20.1	-18.4
Freezer 17	-20.0	-19.6	-19.8	-19.7	-19.3	-19.5	-20.0	-19.2	-19.7	-20.4	-18.7
Freezer 18	-20.3	-19.9	-20.1	-20.0	-19.6	-19.8	-20.3	-19.5	-20.0	-20.7	-19.0
Freezer 19	-20.6	-20.2	-20.4	-20.3	-19.9	-20.1	-20.6	-19.8	-20.3	-21.0	-19.3
Freezer 20	-20.9	-20.5	-20.7	-20.6	-20.2	-20.4	-20.9	-20.1	-20.6	-21.3	-19.6
Freezer 21	-21.2	-20.8	-21.0	-20.9	-20.5	-20.7	-21.2	-20.4	-20.9	-21.6	-19.9
Freezer 22	-21.5	-21.1	-21.3	-21.2	-20.8	-21.0	-21.5	-20.7	-21.2	-21.9	-20.2
Freezer 23	-21.8	-21.4	-21.6	-21.5	-21.1	-21.3	-21.8	-21.0	-21.5	-22.2	-20.5
Freezer 24	-22.1	-21.7	-21.9	-21.8	-21.4	-21.6	-22.1	-21.3	-21.8	-22.5	-20.8
Freezer 25	-22.4	-22.0	-22.2	-22.1	-21.7	-21.9	-22.4	-21.6	-22.1	-22.8	-21.1
Freezer 26	-22.7	-22.3	-22.5	-22.4	-22.0	-22.2	-22.7	-21.9	-22.4	-23.1	-21.4
Freezer 27	-23.0	-22.6	-22.8	-22.7	-22.3	-22.5	-23.0	-22.2	-22.7	-23.4	-21.7
Freezer 28	-23.3	-22.9	-23.1	-23.0	-22.6	-22.8	-23.3	-22.5	-23.0	-23.7	-22.0
Freezer 29	-23.6	-23.2	-23.4	-23.3	-22.9	-23.1	-23.6	-22.8	-23.3	-24.0	-22.3
Freezer 30	-23.9	-23.5	-23.7	-23.6	-23.2	-23.4	-23.9	-23.1	-23.6	-24.3	-22.6
Freezer 31	-24.2	-23.8	-24.0	-23.9	-23.5	-23.7	-24.2	-23.4	-23.9	-24.6	-22.9
Freezer 32	-24.5	-24.1	-24.3	-24.2	-23.8	-24.0	-24.5	-23.7	-24.2	-24.9	-23.2
Freezer 33	-24.8	-24.4	-24.6	-24.5	-24.1	-24.3	-24.8	-24.0	-24.5	-25.2	-23.5
Freezer 34	-25.1	-24.7	-24.9	-24.8	-24.4	-24.6	-25.1	-24.3	-24.8	-25.5	-23.8
Freezer 35	-25.4	-25.0	-25.2	-25.1	-24.7	-24.9	-25.4	-24.6	-25.1	-25.8	-24.1
Freezer 36	-25.7	-25.3	-25.5	-25.4	-25.0	-25.2	-25.7	-24.9	-25.4	-26.1	-24.4
Freezer 37	-26.0	-25.6	-25.8	-25.7	-25.3	-25.5	-26.0	-25.2	-25.7	-26.4	-24.7
Freezer 38	-26.3	-25.9	-26.1	-26.0	-25.6	-25.8	-26.3	-25.5	-26.0	-26.7	-25.0
Freezer 39	-26.6	-26.2	-26.4	-26.3	-25.9	-26.1	-26.6	-25.8	-26.3	-27.0	-25.3
Freezer 40	-26.9	-26.5	-26.7	-26.6	-26.2	-26.4	-26.9	-26.1	-26.6	-27.3	-25.6
Freezer 41	-27.2	-26.8	-27.0	-26.9	-26.5	-26.7	-27.2	-26.4	-26.9	-27.6	-25.9
Freezer 42	-27.5	-27.1	-27.3	-27.2	-26.8	-27.0	-27.5	-26.7	-27.2	-27.9	-26.2
Freezer 43	-27.8	-27.4	-27.6	-27.5	-27.1	-27.3	-27.8	-27.0	-27.5	-28.2	-26.5
Freezer 44	-28.1	-27.7	-27.9	-27.8	-27.4	-27.6	-28.1	-27.3	-27.8	-28.5	-26.8
Freezer 45	-28.4	-28.0	-28.2	-28.1	-27.7	-27.9	-28.4	-27.6	-28.1	-28.8	-27.1
Freezer 46	-28.7	-28.3	-28.5	-28.4	-28.0	-28.2	-28.7	-27.9	-28.4	-29.1	-27.4
Freezer 47	-29.0	-28.6	-28.8	-28.7	-28.3	-28.5	-29.0	-28.2	-28.7	-29.4	-27.7
Freezer 48	-29.3	-28.9	-29.1	-29.0	-28.6	-28.8	-29.3	-28.5	-29.0	-29.7	-28.0
Freezer 49	-29.6	-29.2	-29.4	-29.3	-28.9	-29.1	-29.6	-28.8	-29.3	-30.0	-28.3
Freezer 50	-29.9	-29.5	-29.7	-29.6	-29.2	-29.4	-29.9	-29.1	-29.6	-30.3	-28.6
Freezer 51	-30.2	-29.8	-30.0	-29.9	-29.5	-29.7	-30.2	-29.4	-29.9	-30.6	-28.9
Freezer 52	-30.5	-30.1	-30.3	-30.2	-29.8	-30.0	-30.5	-29.7	-30.2	-30.9	-29.2
Freezer 53	-30.8	-30.4	-30.6	-30.5	-30.1	-30.3	-30.8	-30.0	-30.5	-31.2	-29.5
Freezer 54	-31.1	-30.7	-30.9	-30.8	-30.4	-30.6	-31.1	-30.3	-30.8	-31.5	-29.8
Freezer 55	-31.4	-31.0	-31.2	-31.1	-30.7	-30.9	-31.4	-30.6	-31.1	-31.8	-30.1
Freezer 56	-31.7	-31.3	-31.5	-31.4	-31.0	-31.2	-31.7	-30.9	-31.4	-32.1	-30.4
Freezer 57	-32.0	-31.6	-31.8	-31.7	-31.3	-31.5	-32.0	-31.2	-31.7	-32.4	-30.7
Freezer 58	-32.3	-31.9	-32.1	-32.0	-31.6	-31.8	-32.3	-31.5	-32.0	-32.7	-31.0
Freezer 59	-32.6	-32.2	-32.4	-32.3	-31.9	-32.1	-32.6	-31.8	-32.3	-33.0	-31.3
Freezer 60	-32.9	-32.5	-32.7	-32.6	-32.2	-32.4	-32.9	-32.1	-32.6	-33.3	-31.6
Freezer 61	-33.2	-32.8	-33.0	-32.9	-32.5	-32.7	-33.2	-32.4	-32.9	-33.6	-31.9
Freezer 62	-33.5	-33.1	-33.3	-33.2	-32.8	-33.0	-33.5	-32.7	-33.2	-33.9	-32.2
Freezer 63	-33.8	-33.4	-33.6	-33.5	-33.1	-33.3	-33.8	-33.0	-33.5	-34.2	-32.5
Freezer 64	-34.1	-33.7	-33.9	-33.8	-33.4	-33.6	-34.1	-33.3	-33.8	-34.5	-32.8
Freezer 65	-34.4	-34.0	-34.2	-34.1	-33.7	-33.9	-34.4	-33.6	-34.1	-34.8	-33.1
Freezer 66	-34.7	-34.3	-34.5	-34.4	-34.0	-34.2	-34.7	-33.9	-34.4	-35.1	-33.4
Freezer 67	-35.0	-34.6	-34.8	-34.7	-34.3	-34.5	-35.0	-34.2	-34.7	-35.4	-33.7
Freezer 68	-35.3	-34.9	-35.1	-35.0	-34.6	-34.8	-35.3	-34.5	-35.0	-35.7	-34.0
Freezer 69	-35.6	-35.2	-35.4	-35.3	-34.9	-35.1	-35.6	-34.8	-35.3	-36.0	-34.3
Freezer 70	-35.9	-35.5	-35.7	-35.6	-35.2	-35.4	-35.9	-35.1	-35.6	-36.3	-34.6
Freezer 71	-36.2	-35.8	-36.0	-35.9	-35.5	-35.7	-36.2	-35.4	-35.9	-36.6	-34.9
Freezer 72	-36.5	-36.1	-36.3	-36.2	-35.8	-36.0	-36.5	-35.7	-36.2	-36.9	-35.2
Freezer 73	-36.8	-36.4	-36.6	-36.5	-36.1	-36.3	-36.8	-36.0	-36.5	-37.2	-35.5
Freezer 74	-37.1	-36.7	-36.9	-36.8	-36.4	-36.6	-37.1	-36.3	-36.8	-37.5	-35.8
Freezer 75	-37.4	-37.0	-37.2	-37.1	-36.7	-36.9	-37.4	-36.6	-37.1	-37.8	-36.1
Freezer 76	-37.7	-37.3	-37.5	-37.4	-37.0	-37.2	-37.7	-36.9	-37.4	-38.1	-36.4
Freezer 77	-38.0	-37.6	-37.8	-37.7	-37.3	-37.5	-38.0	-37.2	-37.7	-38.4	-36.7
Freezer 78	-38.3	-37.9	-38.1	-38.0	-37.6	-37.8	-38.3	-37.5	-38.0	-38.7	-37.0
Freezer 79	-38.6	-38.2	-38.4	-38.3	-37.9	-38.1	-38.6	-37.8	-38.3	-39.0	-37.3
Freezer 80	-38.9	-38.5	-38.7	-38.6	-38.2	-38.4	-38.9	-38.1	-38.6	-39.3	-37.6
Freezer 81	-39.2	-38.8	-39.0	-38.9	-38.5	-38.7	-39.2	-38.4	-38.9	-39.6	-37.9
Freezer 82	-39.5	-39.1	-39.3	-39.2	-38.8	-39.0	-39.5	-38.7	-39.2	-39.9	-38.2
Freezer 83	-39.8	-39.4	-39.6	-39.5	-39.1	-39.3	-39.8	-39.0	-39.5	-40.2	-38.5
Freezer 84	-40.1	-39.7	-39.9	-39.8	-39.4	-39.6	-40.1	-39.3	-39.8	-40.5	-38.8
Freezer 85	-40.4	-40.0	-40.2	-40.1	-39.7	-39.9	-40.4	-39.6	-40.1	-40.8	-39.1
Freezer 86	-40.7	-40.3	-40.5	-40.4	-40.0	-40.2	-40.7	-39.9	-40.4	-41.1	-39.4
Freezer 87	-41.0	-40.6	-40.8	-40.7	-40.3	-40.5	-41.0	-40.2	-40.7	-41.4	-39.7
Freezer 88	-41.3	-40.9	-41.1	-41.0	-40.6	-40.8	-41.3	-40.5	-41.0	-41.7	-40.0
Freezer 89	-41.6	-41.2	-41.4	-41.3	-40.9	-41.1	-41.6	-40.8	-41.3	-42.0	-40.3
Freezer 90	-41.9	-41.5	-41.7	-41.6	-41.2	-41.4	-41.9	-41.1	-41.6	-42.3	-40.6</

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Comprehensive Support Services: *Updates, Maintenance, Warranties*



"It's terrific to have real people answering the phones and providing support. Whenever we have questions, the Veriteq team is there..."

- Bob Burke,
IT Manager

Veriteq designs, develops and produces its own systems, which means that exceptional knowledge and support capabilities are at your service, on demand. You can depend on accurate and responsive support for all your Veriteq products.

- > IQ/OQ validation documentation
- > Rapid support – answers when you need them
- > Cost-saving extended warranties
- > Complete calibration plans
- > A2LA-accredited calibration, NIST traceability
- > Comprehensive training to ensure productivity

About Veriteq

Since 1994, Veriteq Instruments has advanced the science, accuracy and industry standards of humidity and temperature measurement, recording and reporting. With a unique system that combines autonomous internal memory and 10-year battery life for independent recording, we provide the most reliable system wherever data on environmental conditions are critical.

Ours is the only environmental validation system that states the accuracy of its humidity and temperature recorders after one year of field use. Whether your applications are FDA regulated or subject to other stringent quality compliance guidelines, Veriteq's systems deliver best-in-class accuracy, fail-safe data and customizable solutions.

See a list of our client companies at:

www.veriteq.com/about/veriteq-customers.htm

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