Vaisala viewLinc Monitoring System

/ TEMPERATURE, RELATIVE HUMIDITY, DOOR SWITCHES, CO_2, DIFFERENTIAL PRESSURE, AND OTHER VARIABLES

SIMPLE & RELIABLE ENVIRONMENTAL MONITORING

VAISALA

Flexible Monitoring for Multiple Parameters and Applications

The Vaisala viewLinc Monitoring System features the viewLinc Enterprise Server software* and monitoring devices that provide alarming, real-time trends, and customizable reporting. Ideal for both light and heavy industrial environments, as well as GxP-regulated applications, the system integrates a wide selection of Vaisala data loggers, transmitters and connectivity options to monitor temperature, relative humidity, dew point temperature, CO_2, differential pressure, door switches, and more.

The system scales easily—from one or two measurement points to thousands of monitored areas. With eight language versions the software is ideal for multi-site use and global monitoring. The viewLinc Enterprise Server makes it easy to network data loggers via any combination of connectivity options, including: Ethernet, PoE, Wi-Fi, and Vaisala's proprietary wireless technology: VaiNet.

Reliable Monitoring Simplified

The Vaisala viewLinc Monitoring System provides:

› Real-time monitoring and alarming, with customizable reporting

› Gap-free monitoring even during power and network outages

› Easy connectivity to existing networks via multiple connectivity options: wired, wireless or Wi-Fi

› Simple installation and validation, with optional IQOQ protocols

› Optional on-site installation/validation services for easy and compliant implementation

› Onscreen tours for first-time users (tours provide pop-up assistance to complete common tasks)

› Embedded help ensures ease-of-use for occasional users

› Redundant recording that runs parallel to control systems

› Mobile optimized interface for use on smartphones

› Automated localized reporting for multi-language applications

*The viewLinc Enterprise Server includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org)

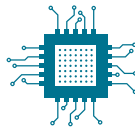# Industries and Applications

viewLinc Measures, Monitors and Maps Here...

Fridges / Freezers

Pharma/Biotech /Blood & Tissue

Semiconductor

Museums & Archives

Calibration Labs

Aerospace

Data Centers / IT

Food & Beverage

Warehouses

Chart Recorder Replacement

Although viewLinc was designed for use in pharmaceutical and other regulated environments, the system can be used to monitor conditions in a variety of applications. Vaisala offers an unmatched selection of devices, probes, calibration, and services.
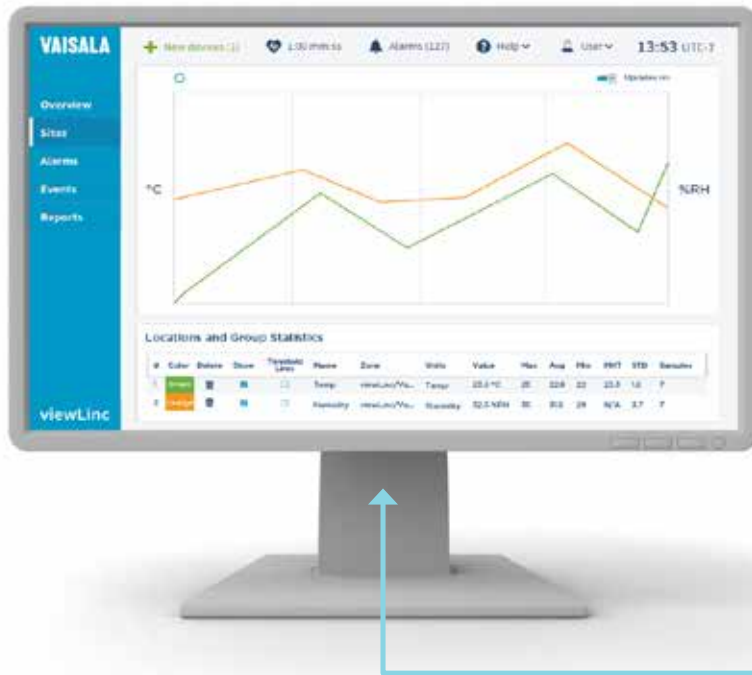
Ideal for Regulated Applications:

- Validatable software
- Environmental mapping qualification software
- Encrypted data and audit trail
- IQOQ protocols & GxP documentation
- ICH-compliant calibration options

viewLinc Enterprise Server: Simple & Intuitive

Comparative analysis graph of current and historical conditions.

Live data showing the conditions overlaid on actual environment photo

Live data showing the conditions overlaid on floor schematic

Tours show how to use the software: Set up viewLinc, Create a Zone, Create a Location, Add a User, and more

The system nearly deploys itself... Simply open the box, download viewLinc and turn on the data loggers. The software will identify each device and walk you through a simple configuration.

On-Screen Guidance

User Guides & Online Help

eLearning On-Demand

Technical Support

Features and Benefits:

- Tours introduce common tasks, making viewLinc easy to learn.

- Onscreen guidance and tooltips provide immediate user assistance.

- Users and administrators have 24/7 access to multiple support options (with support plan).

- Supported Web browsers include Google Chrome™, Microsoft® Internet Explorer®11, or Microsoft Edge™ (on Windows 10)
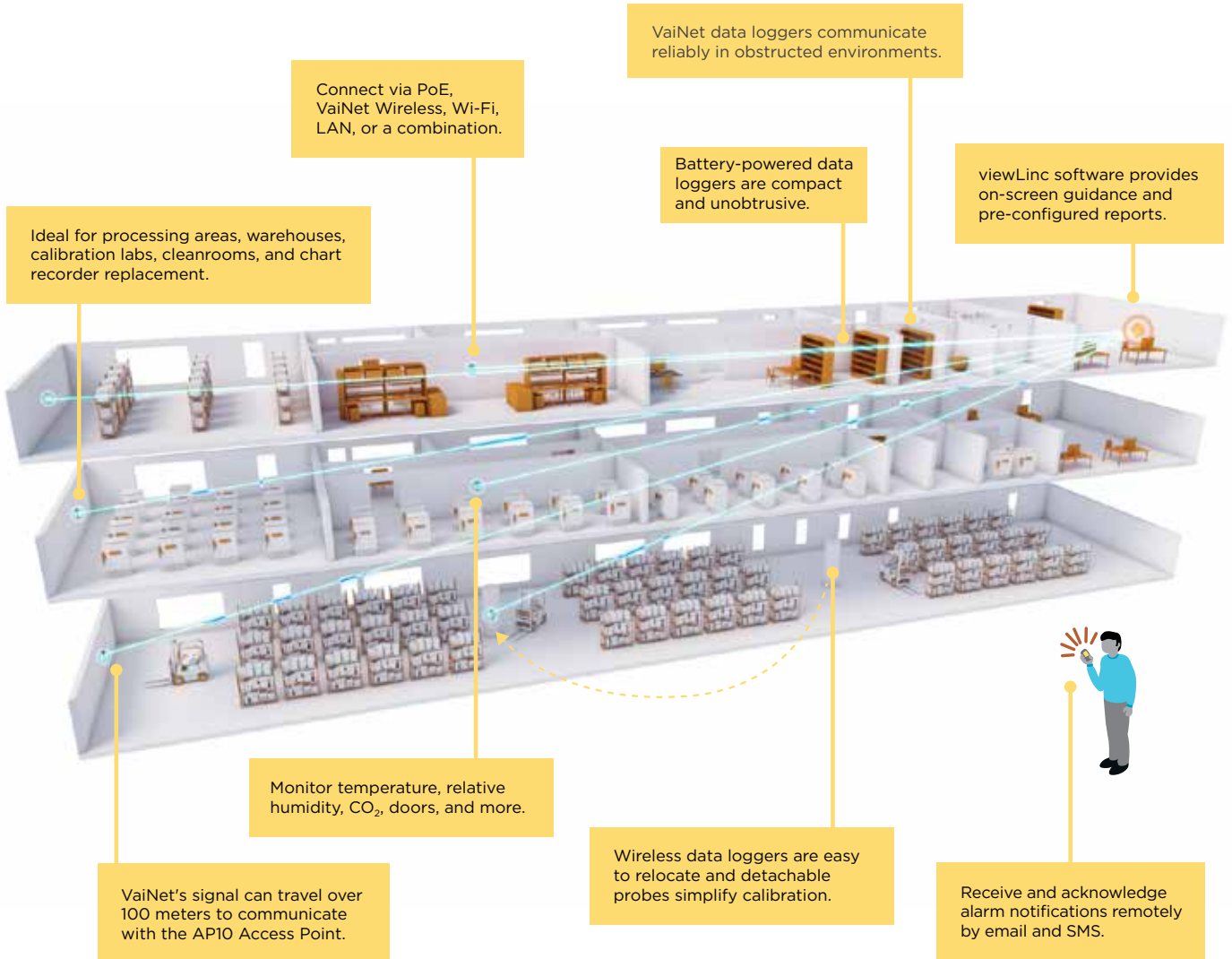
VaiNet: Wireless that Stops at Nothing

VaiNet wireless technology is the proprietary wireless option of the viewLinc Monitoring System.*

VaiNet devices are available in selected regions globally. Other regions will require alternate Vaisala solutions to support wireless monitoring with the viewLinc system. Please contact your local Vaisala representative to learn what wireless data loggers are available in your region.

Quickly Installed, Easily Networked, Ready-to-Use Devices

VaiNet data loggers communicate reliably in obstructed environments.

Connect via PoE, VaiNet Wireless, Wi-Fi, LAN, or a combination.

Battery-powered data loggers are compact and unobtrusive.

viewLinc software provides on-screen guidance and pre-configured reports.

Ideal for processing areas, warehouses, calibration labs, cleanrooms, and chart recorder replacement.

Monitor temperature, relative humidity, CO_2, doors, and more.

Wireless data loggers are easy to relocate and detachable probes simplify calibration.

Receive and acknowledge alarm notifications remotely by email and SMS.

VaiNet's signal can travel over 100 meters to communicate with the AP10 Access Point.

"Before installing viewLinc, we spent eight to ten hours per week checking chart recorders. Now we check all locations in realtime from a Web browser and generate reports in minutes."

- Mark Kashef, Teledyne Technologies Inc.

Device Options: Unmatched Flexibility, Superior Reliability

The system can integrate analog hardware to monitor almost any parameter with devices that output 4…20mA, 0…5V, 0…10V, thermocouple (mV) or dry contact (Boolean). This range of sensing hardware results in an unmatched variety of options in industrial monitoring. We offer prefabricated panels* that incorporate Vaisala instruments with other hardware for customized solutions.

Devices:

- Choose from a wide selection of Vaisala transmitters, data loggers and probes.

- Wall, duct and remote probe mounting capabilities with wired or wireless connectivity.

- Temperature measurements from -196 °C … + 1000 °C and humidity measurements to 100%RH.

- Dew point measurements from vacuum to 100 bars; ambient to -80°C dew point.

- Differential pressure sensors for single-point monitoring and multiple zone applications using customized panels*.

- CO_2 measurement from 0 to 20% for demand controlled ventilation and safety applications.

- Intrinsically safe options for hazardous/explosive areas. Compliant with VTT (CENELEC, Europe), FM (USA), CSA (Canada), TIIS (Japan), and PCEC (China), VTT (IECEx).

Deployable right out of the box, monitoring devices self-identify within the viewLinc software and come with easy-to-use configuration templates.

* Panels are available in selected regions. For information about panels, please contact your local Vaisala representative.

System Features

Real-time Data Trending
Users can view a real-time trend and a graphical overview of controlled areas to monitor all measured points in one interface. Drill down into monitored points on the dashboard to view trend data for any time period.

Complete Data Protection
Months of data can be retained in the memory of each DL-series logger. Automatic data backfill to the server and client PCs ensure gap-free data during network or power outages.

Flexible Alarming
Remote and local alerts of out-of-tolerance conditions are sent via SMS, email, buzzers or lights. Alarms can be acknowledged on mobile phones via SMS and email.

Automated Reporting
Create custom reports on demand. Frequently run reports can be automatically generated and delivered by email on a pre-set schedule.

Browser-based Access
No software needs to be installed on client PCs.

Global Environmental Management
The system can span time zones and still report in the time of the local facility. All data is collected and keyed to one time zone, but reportable to all.

Data Integrity Assured
viewLinc has several features that ensure data integrity, including an audit trail, system access controls, authority levels that fulfil regulatory requirements for segregation of duties, device checks that verify the origin of data, and validation alarms to guarantee the data validity.

"Of all the monitoring systems we looked at, the viewLinc monitoring system provided the best value... hands down!"

- Dorraine Reynolds,
Pharmacy Director US-based National Research Hospital

"When you need to show compliance to multiple governmental and regulatory agencies for 2,273 temperature or humidity channels, quick reporting is a necessity."

- Joe Cwiertniewicz,
McKesson Facilities Manager

"After years of working with the system, generating the kind of reports that make auditors happy, we've found Vaisala's viewLinc Monitoring System to be bullet-proof."

- Timothy Phelps, Facilities Engineering Manager
McKesson Specialty Distribution

Services and Calibration

Vaisala's team of engineers, metrologists and technical support experts are committed to ensuring your system functions flawlessly for many years.

The Vaisala viewLinc Monitoring System comes with a full suite of service options. From project deployment services to comprehensive life cycle support, including installation, validation, and calibration, either on-site or in our accredited calibration laboratories. We offer an extensive Life Cycle Maintenance Agreement to ensure you get the best value out of your system.

Calibration Options

Vaisala's calibration laboratories were established in 1958 and are equipped with continually updated equipment and technology. Our global service centers provide a wide range of calibration services traceable to SI-units to meet your specific needs: standard calibration, custom points, and ISO/IEC 17025 accredited calibration services audited by the world's leading accreditation authorities. We also offer on-site calibration in some areas.

Detachable probes on the VaiNet RFL series loggers contain the measurement electronics that allow the probe to be easily replaced with a newly calibrated probe, leaving the data logger in place for continuous monitoring. We also offer probe replacement services.

Validation

For quality systems that require rigorous change control, we offer optional validation protocols and service, as well as documentation to support GAMP5 implementations to demonstrate that your system is operating in a state of control.

Data Loggers, Instruments, Transmitters*

RFL100

The Vaisala VaiNet Wireless Humidity and Temperature Data Logger RFL100 utilizes Vaisala's proprietary VaiNet wireless technology to monitor conditions in controlled environments. The RFL100 achieves wired equivalency with a Chirp Spread Spectrum signal filter and features superior signal strength to 100 m (330ft.); further in unobstructed environments. The RFL100 is powered with two standard AA sized batteries, 1.5V (LR6 or FR6) for easy battery replacement, and provides 18 months of operation at 20 °C.

AP10

The Vaisala VaiNet RFL wireless data loggers require a connection to a VaiNet access point: the AP10. Each AP10 can connect up to 32 loggers to the viewLinc Enterprise Server. In a typical system, the AP10 is installed within 100 meters of an RFL100 data logger. In unobstructed environments the range will be significantly higher. Installation is easy with each logger automatically identified by an AP10 when turned on. Access points, along with the viewLinc Enterprise Server, verify all data and store it in a secure database where it is protected from tampering and loss.

HMT140

The Vaisala HUMICAP® Humidity and Temperature Wi-Fi data logger HMT140 measures relative humidity and temperature using probe and analog signals – RTD, voltage or current loop. An optional Boolean channel connects to door switches or alarm contacts. The battery-powered HMT140 connects easily to an existing Wi-Fi network. Options include 9-30VDC power supply, LCD display, multiple signal measurements, and fixed probe directly attached to the transmitter housing or a remote probe with different cable lengths (3/5/10 m).

DL1016/1416

These temperature data loggers can monitor up to four applications across a wide range of temperatures — from ultra-low temperature freezers, freezer/refrigerators, test chambers to incubators. The DL1016 or 1416 loggers eliminate the need to install additional hardware; no extra loggers or added network access points are required to simultaneously monitor up to four environments.

HMT330

The Vaisala HUMICAP® Humidity and Temperature Transmitter Series HMT330 is designed for demanding applications where stable measurement and customization is important. Featuring warmed probe technology for superior performance in condensing environments and an IP65 corrosion-resistant housing, the HMT330 has an option for integrated data logging, with over four years of measurement history.


DL4000

The DL4000 universal input data loggers are a simple solution for monitoring pressure, flow, level, pH, electrical properties and gas concentrations. Ideal for standalone or networked monitoring applications, this data logger connects to a PC via USB or installs to your existing network via Ethernet, vNet PoE or Wi-Fi. Each DL4000 data logger contains a 10-year battery and onboard memory for recording a wide range of variables at the point of measurement.

DL2000

Vaisala DL2000 precision temperature and humidity data loggers are compact, easy-to-use devices for monitoring critical and humidity-sensitive products and processes. With internal temperature and humidity sensors, the DL2000 features an optional external channel with current or voltage inputs to record parameters such as differential pressure, CO_2, level, particles, or conductivity. An optional Boolean channel connects to door switches or alarm contacts. Each data logger contains a 10-year battery and onboard memory to ensure no data is ever lost to power outage or network downtime.

The products listed are a small sample of the options available. Vaisala VaiNet devices RFL100 and AP10 are not available in some regions. Contact your local Vaisala representative for more information.
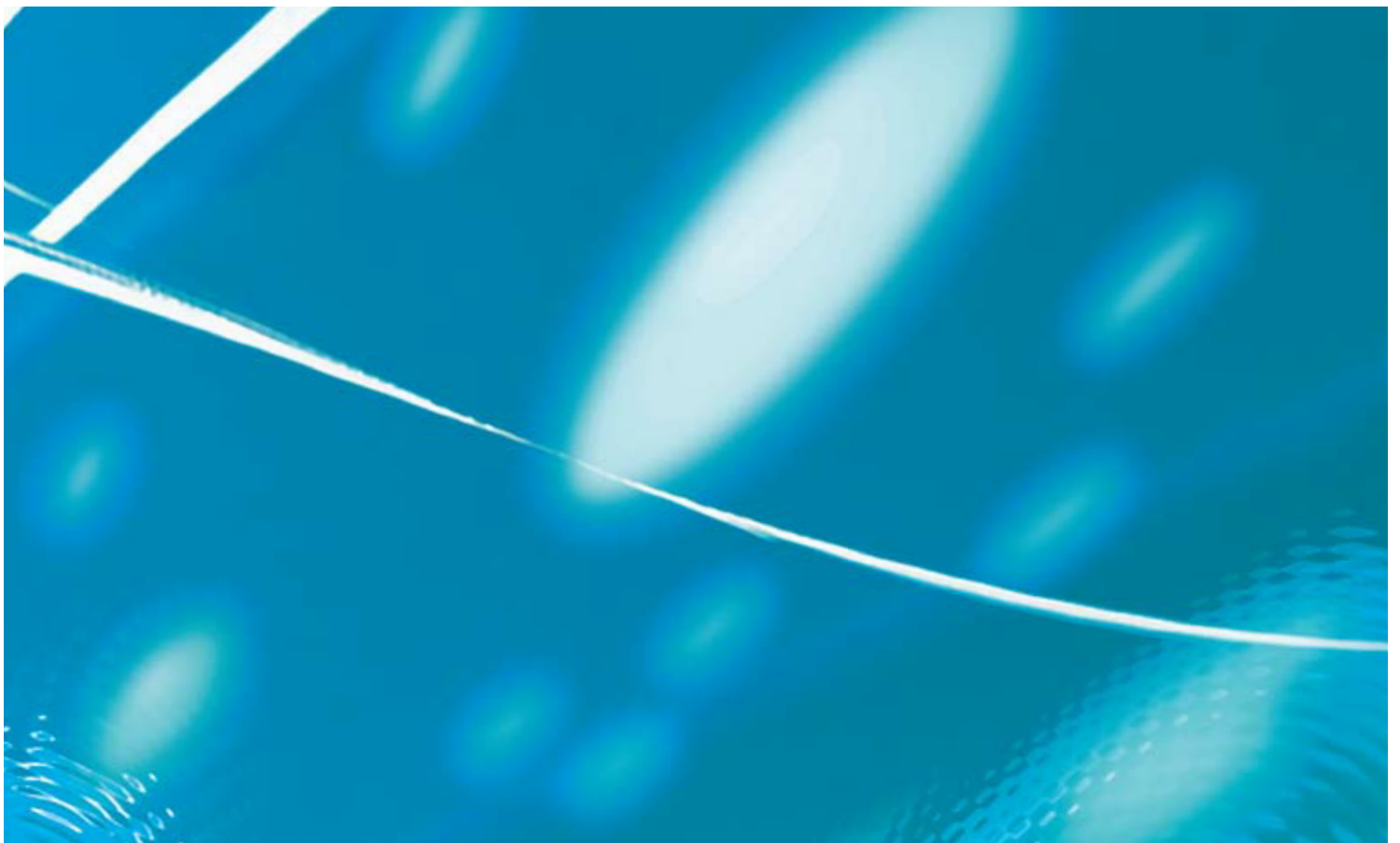
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