

KAYE

IOT

POWERED BY
FacilityConneX

LabWatch® IoT

Sensors That Talk through CONNECTION

- Continuously Monitor and Detect – Ensuring No Alarms are Missed.
- Be ahead of the Game with Cloud Based Proactive Information (IoT/IIoT)
- No Hardware or Maintenance Costs
- Fully 21CFRp11 Compliant
- Easy Data and Alarm History Reporting

... as Intelligent VOICES

- Information Anytime, Anywhere at the Customers fingertips
- Enhanced Decision Making through Collaboration with Notes and Tasks
- Notification to Action

... driving clear ACTIONS

- Reduce Time to Resolution
- Increase Operational Efficiency – Less Downtime
- Increased Productivity
- Lowest Total Cost of Ownership

Introducing LabWatch IoT, the advanced operational intelligence-based system designed for transforming your GxP data into real actionable knowledge.

Know the status of your products, 24 hours a day, 7 days a week. This is the promise of IoT/IIoT. LabWatch IoT brings smart asset monitoring, advanced predictive intelligence, intelligent alarming/notification, and warranty assurance. All available in a hosted cloud environment with no administration costs to you.

Monitoring in the Cloud

No more guessing, your assets TELL you what is happening. LabWatch IoT filters the disparate data everywhere into critical information in a single, concise view. The platform brings highly secure connection technology with advances in data encoding in real time.

Advanced Reporting

Straight from the Cloud – all history, asset and alarm data is available to all users from one a browser based interface. All compliant to 21CFRp11 – you'll be confident having immediate access your systems information.

Knowing Your Assets is about knowing your Facility. From seeing your

product in context of the entire system, to giving your personnel information before they arrive to the site. Knowing the situation will increase efficiency by at least 40%.

Imagine sending your personnel into a site with real time information and causal results before he looks for a remedy. Then imagine you knowing proactively about a performance improvement increasing production and machine reliability. In today's industrial internet this is all possible and is cost effective in the cloud.

The second step is **Customer Visibility**. With the Customer Visibility option of Kaye LabWatch IoT, you choose to give your team the transparent reliability and the best services in the market and cloud today. You choose to differentiate yourself by helping yourselves see the assets the way you designed it to run.

Not only can you visualize your assets' performance, but you get proactive alerts and allowing collaboration with you directly and receive the corrective action procedure – the right information at the right time.

Kaye provides two versions of their LabWatch Continuous Monitoring systems – either a site based local server, or a true Cloud based solution – compare options that meet your requirements. Both systems are fully supported by Global Service Teams ready to provide installation, calibration and validation services – discuss with your local account manager to find out what version works best for you!

LabWatch is your one stop software shop for all environmental monitoring that is subject to pharmaceutical regulatory scrutiny, and with over 60 years of experience – Kaye can ensure that your investment keeps pace with updates to IT and GxP requirements. Don't be subject to failing an audit!



Netpac II Monitoring Solution – Cloud ready with built in redundancy

LABWATCH FEATURES

LABWATCH PRO SERVER

LABWATCH IOT CLOUD

Infrastructure and Connection

Server Technology and Implementation	On-Premises / Server(s) required	Solution as a Service
Redundancy	IT-Assist / manual backups	Cloud redundancy – No administration required
Secure Data Connection	IT-Assist / Local Network	256-bit Encrypted OPC
Authentication	IT-Assist / Local Control	SAML, MD5, and SSO Capable
OS and Software Upgrades	IT-Assist / Patching	No Administration Required
Remote User Access	IT and Third-Party License Required	No Administration Required (no user limit)
Security Practices	IT-Assist	Encrypted and ISO Adherence
Kaye Remote Help	IT-Assist / Local Control	Built-In / Requires customer to grant Kaye Support access through E-Signature.
Connectivity to Kaye / 3rd Party sensors	Built-In (OPC-UA)	Built-In (OPC-UA / MQTT)

User Interaction Features

Views and User Interface	Windows-Based (IIS)	Web-Based (any browser)
Language	English	English – release of Multi Language versions in 2022
Mobile	Third-Party	Native – iOS / Android App store
Alerts and Notifications	Integrated / Third Party Extension	Native
Alert Acknowledgement	Built-In	Built-In
Alert History	Built-In	Built-In
Reporting – Alert Summary, Environmental Monitoring	Installed reporting module interfacing with Application	Built-In / Customize Application-Assist Option
Custom User Interface	Application Engineering Option	Self-Service
Alert Customization	Module configuration	Self-Service
Preventative Maintenance Analytics	None	Artificial Intelligence modules for Preventative maintenance
Task generation / Maintenance	None	Built-In
Asset Alarm Comparison Analytics	None	Built-In

Standard Compliance and Validation

E-Signature Capable	Built-In	Built-In (selective options for sign / review)
Audit Trail and Reporting	Built-In	Built-In web download
21 CFR Part 11 Compliance	Built-In	Built-In
IQ / OQ Validation documentation	Full Validation	Full Validation / Change Control
Validation Execution	On Site	On Site / Remote capable
Version upgrades	On demand	Scheduled Cloud upgrades under supplied change control
Version customization	All systems are designed specifically for customer use	All systems are customer modifiable using Validated components
Version Isolation	All systems can remain at customer approved Validation level	Kaye allows Isolated Cloud option for customer to remain at approved Validation level



Visualize all your assets and alerts from any browser

Can You Resolve Issues Fast? Intelligent Alarming

Aggregated asset and product health displays intelligently alert the user to a current condition or predictive condition drawing his attention to the most critical information. With intelligent notifications and recommended condition-based actions, the operator reacts to conditions and alarms with state and severity as a leading indicator of a process or equipment in trouble taking you to action.

Advanced Diagnostics

Temperature trending up? Is that related to open doors, power outage? Is this a problem? Is this a crisis? Humans cannot predict failure, but your assets have the data and can tell you if they are trending out of control and if they are starting to fail. Let your assets intelligently tell the operators what is required to keep them running, what issues are occurring, and how to change a failure trend. Identifying and preventing failures will not only save money against your machine and output efficiency; it will

limit unnecessary preventive maintenance costs and save on energy usage, cost and deviations.

Increase Productivity without increasing Total Cost Ownership

Companies today watch the bottom line closer than ever before. Internal IT costs are constantly under pressure to reduce. LabWatch IoT is a cloud based solution designed with no administration, hardware, and labor costs decreasing total costs of ownership (TCO). With operational efficiency gains, longevity on your assets, and increased performance and reliability, IoT is the answer to increase overall user satisfaction.

Save time using Reports that you don't need to interrogate!

LabWatch IoT allows the users to have a complete overview of the selected assets, giving a time based view of both data and alarm histories. Automatic downloads straight from the Cloud, gives instant access to reports for selected assets or areas – no more trying to remember the sensor IDs.

Digitalization of knowledge

LabWatch[®] IoT POWERED BY FacilityConneX

Name	Equipment	Value	Unit	Status
Temperature T001	Blood Bank 1 - 1st Floor	6.2	°C	Normal
Temperature T002	Blood Bank 2 - 1st Floor	6.1	°C	Normal
Temperature T003	Blood Bank 1 - 2nd Floor	6.3	°C	Normal
Temperature T004	Blood Bank 2 - 2nd Floor	6.4	°C	Normal
Temperature T005	Blood Bank 1 - 3rd Floor	6.1	°C	Normal

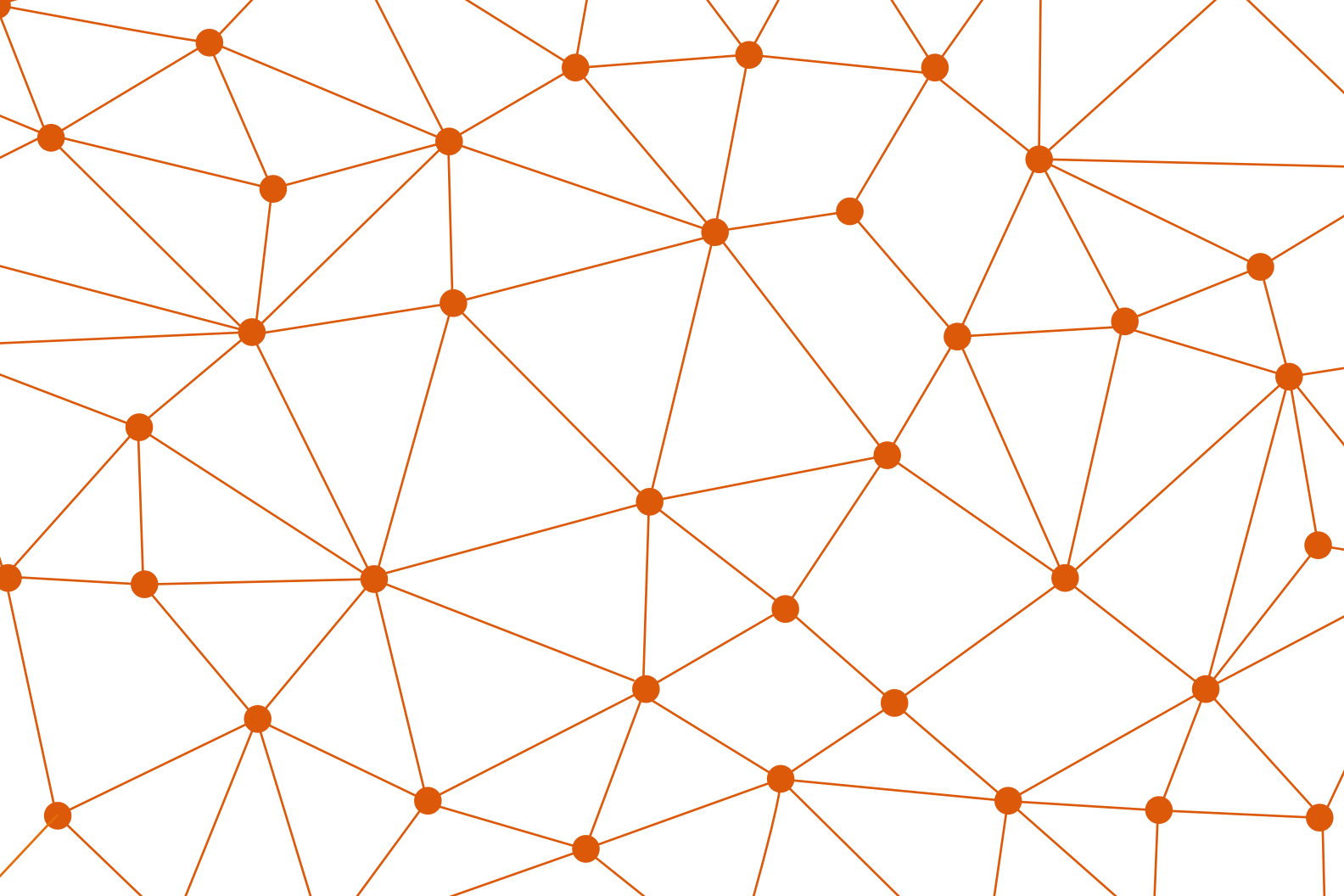
6.5 5.6 5.6 5.5

TEMPERATURE

REPORT

ALARMING

PRESSURE



Our LabWatch IoT

Our commitment to our customer is Continuous ROI. During our customer experience reviews, our Commissioning and Equipment Experts cover your findings, corrective actions, and system performance. These topics drive operational efficiency, energy reduction, and equipment/process optimization.

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Warranty and disclaimer: The information mentioned on documents are based on our current tests, knowledge and experience. Because of the effect of possible influences in an application of the product, they do not exempt the user from their own tests, checks and trials. A guarantee of certain properties or a guarantee for the proper suitability of the product for a specific, especially permanent application can not be derived from our data. Liability is therefore excluded to that extent permitted by law. Any proprietary rights of third parties as well as existing laws and regulations must be observed by the recipient of the product on his own responsibility.



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