Packages and service

Data Management Package

Centralized management of the recorded data file

Access Control

Users are assigned to groups and are given access privileges based on the group they belong to. Only authorized users can login to the system and search and browse through data.



Validation Documents

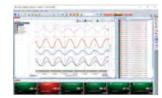
Prepare validation documents based on the risk-based approach

Paperless Recorder

SMARTDAC+Series

Measure and record a variety of data Advanced Security Function

- Logical security
- Audit trail function



Universal Viewer

Monitor measured data

(Trend display / Digital display)

Measured value display

Alarm notification on the

Monitor data for each

measurement group

in real time

Dedicated viewer software browsing recorded data

Real-time Monitoring Software

- Display recorded data
- Supports latest OS and offers best viewing quality
- Supports 8 languages



- Add I/O modules as needed
- Wide variety of powerful display functions
- A full range of network functions

Electronic recording of data is compliant with pharmaceutical regulations

- Secure data storage in binary format (fraud proof)
- Dedicated viewer software



Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

YOKOGAWA ELECTRIC CORPORATION

Life Business Headquarter

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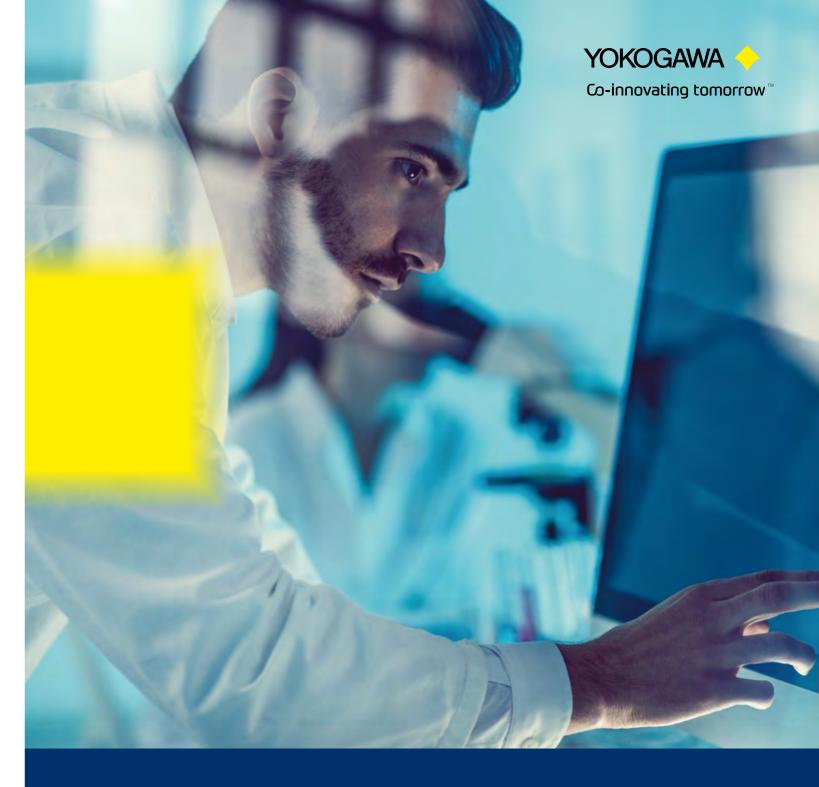
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Co-innovating tomorrow™







Environmental Monitoring Compliant with Pharmaceutical Regulations

OpreX Environmental Monitoring System collects, measures, and stores data such as temperature and humidity as well as other management data to monitor the environment in pharmaceutical manufacturing area, quality control area, and storage area.

Click here for more information about OpreX EMS!

1 OpreX Environmental Monitoring System 2

Ensure and Improve your Data Integrity!



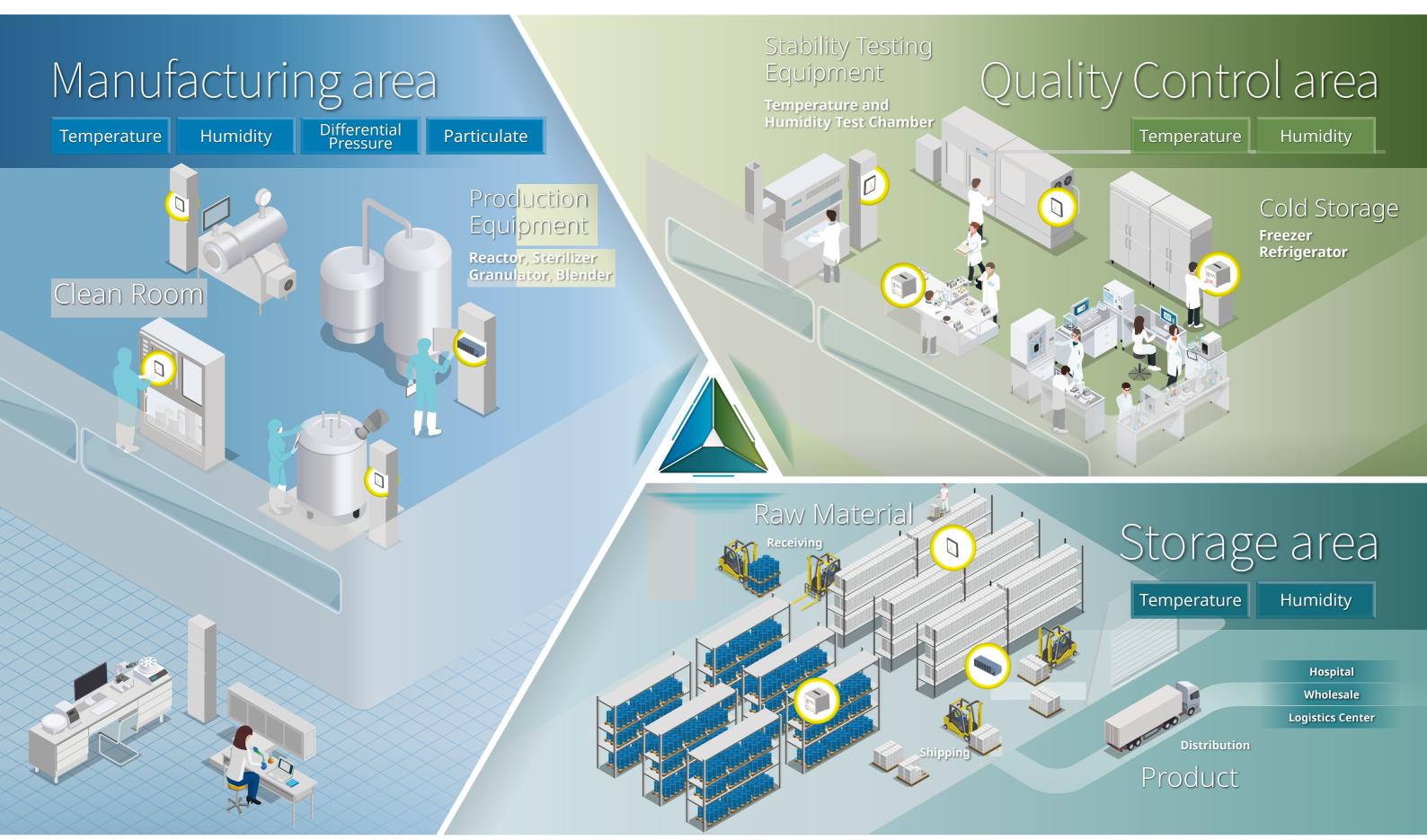


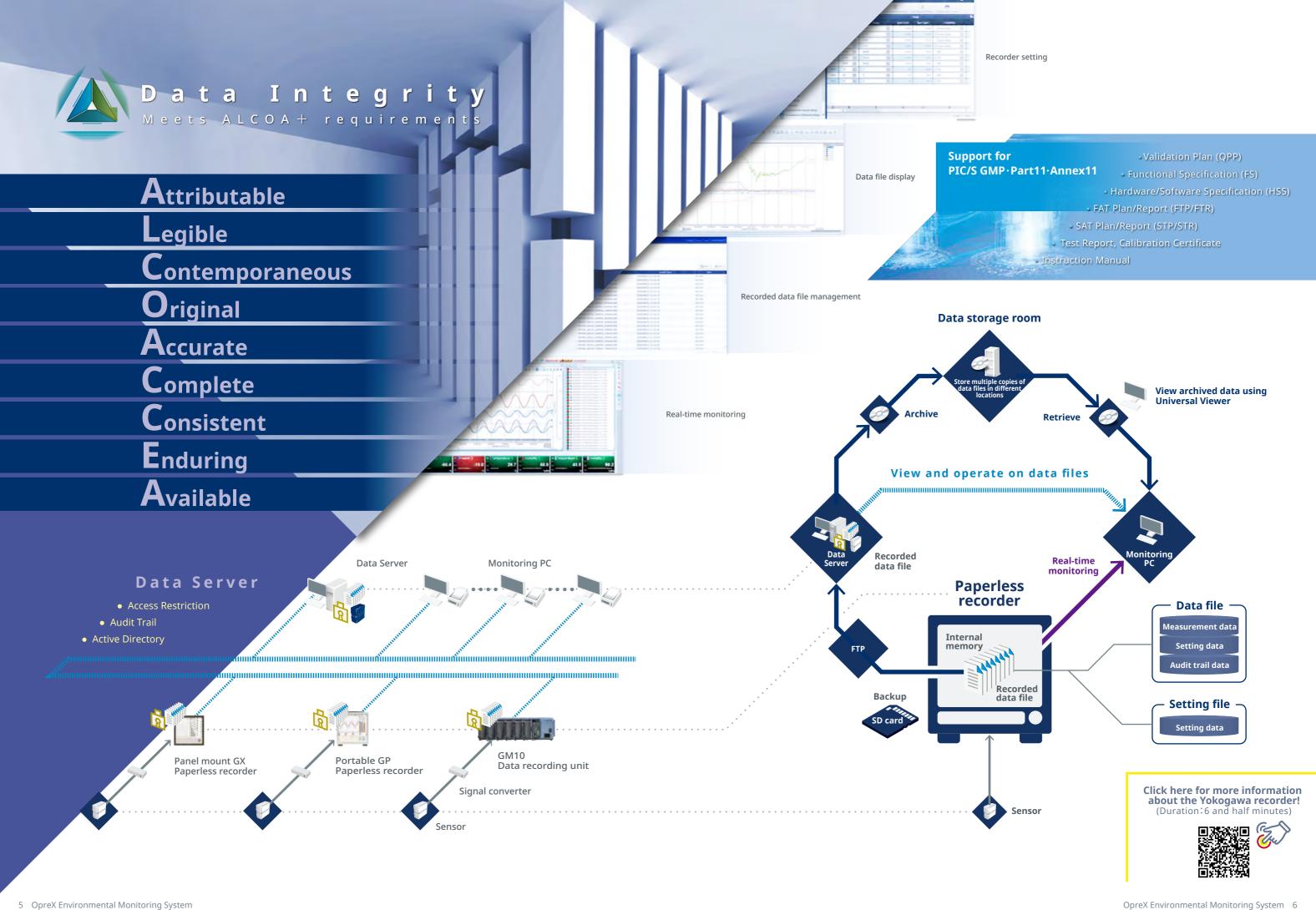






corder Portable GP Paperless recorder

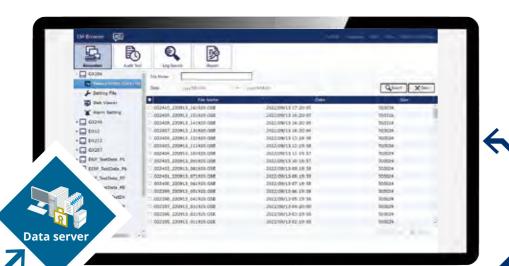






Data Collection and Long-Term Storage

Long-term storage of collected data in recorders that are FDA 21 CFR Part 11 compliant



Data Management Package controls access to the Data Server.

File operations performed by any user logged into the Monitoring PC are recorded in the audit trail.

Transfer



Administrator operations

• File operation (Archive, Delete)



Our recorders are compliant with FDA 21 CFR Part 11, and the recorded data can be saved in a file format that prevents tampering of the data. Data files are stored long-term in the data servers that allow access only to authorized users.



Operator operations

View the recorded data

\$5-AA A440 . . \$ 33080 -- 2 - 600 5 4 1

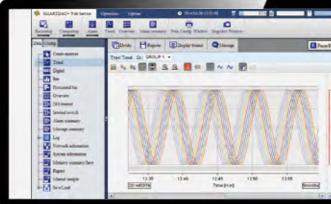
Universal Viewer



Real-Time Data Monitoring

Monitor measured data and alarms using the monitoring software





Real-time monitoring software

Display measured data in real time.

Measured data abnormality is reported with a visual alarm (red blinking) as well as a buzzer sound.

Web application

Users can monitor the operation status and measured data on recorders through a web browser in real time.

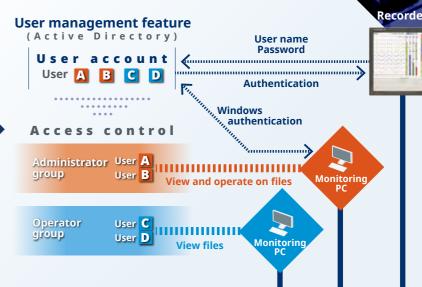


Centralized Management for Login User

Centralized management of user names and passwords using servers on the network is possible through Active Directory

- Centralized management of user name/password in Data Server and recorders
- User login access control





Ethernet

differential pressure, etc.)

Exceptional Usability and Functionality for Data Management



Audit Trail Function

- All operations on records by an authorized and logged-in user are automatically recorded and saved in the audit trails.
- Data server and recorder audit trails are listed.
- The recorded audit trail can be downloaded as a PDF file.







Log Search Function

- Displays a list of "Alarms," "Marks," "Image Marks," and "Operation History" logs saved for each recorder.
- You can search logs using keywords and download log reports.





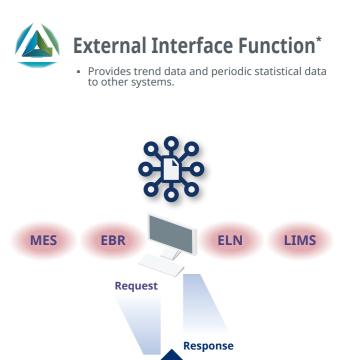


Report Function*

 A Report is generated based on the data Recorded from multiple recorders.
 Daily Report/Monthly Report/
 Alarm Report/Periodic Report/Trend Report

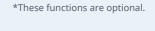






Monitoring PC

Integrated management of data collected by multiple recorders



WebAPI





















