

MICREX-View **XX**

Plant panel Playback System

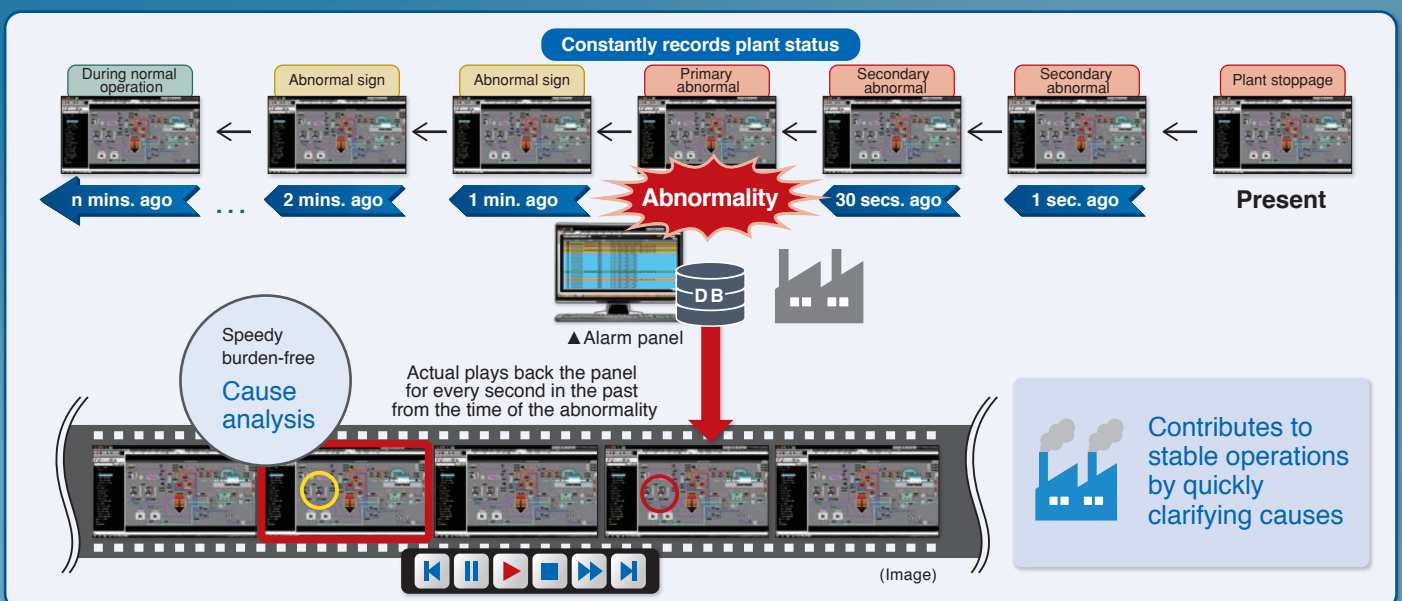
Plays back the operating conditions at times of plant on the past.
 Contributes to stable operation by quickly clarifying causes.

The quick identification of abnormalities is a common challenge facing plant operations.
 The Plant panel Playback System reproduces the operating conditions at the time of abnormalities based on monitoring data collected over time. This reduces the burden of analysis and allows the quick identification of the problems.
 The system contributes to stabilizing operations, improvement of operational efficiency, and enhancement of product quality.



- ✓ Engineering-free collection and storage of all monitoring data
- ✓ Reduces analysis work by easily playing back past situations by specifying events
- ✓ Past events and operational data from experienced workers can be used for worker training

[System features]



Feature overview

Item	Function overview
Plant data recorder	<ul style="list-style-type: none"> ◆Accumulates plant data (control information in a plant) in a time-series manner at a maximum rate of 1 second per cycle ◆Import and export of stored data
Playback viewer	<ul style="list-style-type: none"> ◆Playbacks and displays the plant panel using the data stored in the plant data recorder ◆Supports quick investigation of abnormality causes by playing back plant conditions at the time of abnormality

Usage example

Case: 1 Reduces analysis work of workers

Before adoption


A large amount of work is required to analyze causes at the time of malfunction

- Unable to playback plant monitoring conditions
- Workers must extract the cause from a massive amount of historical data


After adoption

Easily plays back plant conditions at times of malfunction to facilitate smooth cause analysis

Direct transition from the event to the plant panel at n seconds before the event occurred (n: configurable)




▲ Alarm panel




Abnormality location

Plays back the behavior change of attributable equipment



1 min. before



Point of occurrence

Playing back operating conditions

(Note) A new CSV file output function has been added, simplifying search, tabulation, and analysis of accumulated (historical) data using Excel.


Case: 2 Utilization of work expertise in worker training

Before adoption


- It is difficult to convey images because there is a tendency to focus on oral guidance and explanations
- Difficulty connecting situations with necessary actions

After adoption

Playing back operating conditions

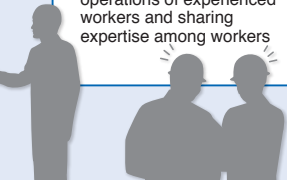


Operation start

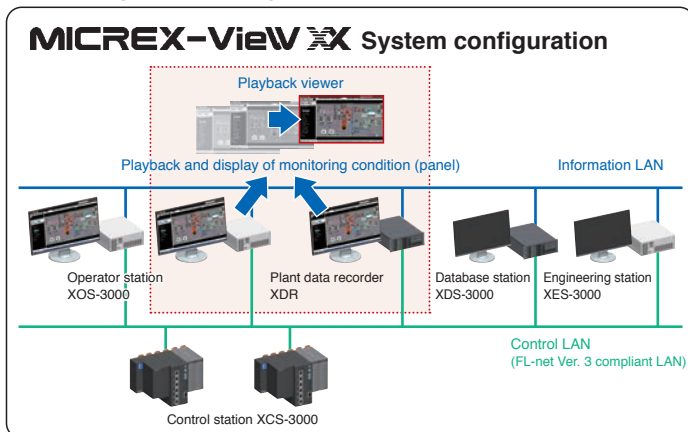


Operation end

Visualization of efficient operation methods by playing back plant operations of experienced workers and sharing expertise among workers



Configuration diagram



Main specifications

	Item	Specification	Remarks (required specifications, etc.)
System configuration	Control station XCS-3000	Max. 15 stations (Single or redundant)	
	Operator station XOS-3000	Max. 8 stations	Windows 10 IoT Enterprise 2019 LTSC (64bit) Windows 10 IoT Enterprise 2016 LTSC (64bit)
	Database station XDS-3000	1 station (Single or redundant)	Windows Server IoT 2019 standard (64bit) Windows Server 2016 Standard (64bit)
Communication	Plant data recorder XDR	1 station	Windows Server IoT 2019 standard (64bit) Windows Server 2016 Standard (64bit)
	Control LAN	FL-net Ver. 3 compliant LAN	
Collection target	Information LAN	Ethernet	
	Plant data	All TAG data collection Collection cycle (1 sec. max.)	
	Amount of target data	150,000 points	
	Collection (storage) period	500 GB or more (2 weeks of data or more)	Depends on HDD capacity

⚠ Safety precautions

- Before use, please read the "Operation Manuals" and "Specifications" thoroughly or consult us or the sales agent from which you purchased this equipment to ensure it is used correctly.
- This system must only be handled and operated by relevant specialists.

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