Industrial AI Application

Orise Industrial AI Application brings smart manufacturing to the factory floor: it turns machine and process data into actionable insights by using anomaly detection and predictive analytics.

By combining engineering logic with domain-specific AI, Orise uncovers hidden issues before they affect performance. It integrates with ERP, MES, and IIoT systems—cloud or on-premise—and lets engineers deploy models and set alerts without coding. Used in both process industries and discrete manufacturing, Industry AI Application helps manufacturers boost efficiency, reduce downtime, and move from reactive to predictive operations.

Connect your data and add new capabilities to your ecosystem

Anomaly Detection

Detects unseen issues fast. Flags abnormal patterns for quick root-cause fixes.

Asset Health Monitoring

Monitors equipment 24/7. Spots early signs of failure to prevent breakdowns.

Micro-Stop Detection

Identifies critical micro-stops in automated production and filling lines to improve performance.

Virtual Sensor

Estimates lab metrics in real time. Cuts costs and improves quality.

Control Performance Degradation Detection

Detects control loop issues early. Keeps processes stable and hands-off.

Industrial AI Application is designed to interface with leading data monitoring and IoT platforms—including OSIsoft PI, AWS, Azure, InfluxDB, Cumulocity IoT, OPC, SQL, and more. It processes all types of industrial data—from sensor signals to digital I/Os—and takes into account operating conditions from ERP, MES, or other systems.

Thanks to an ever-growing library of data connectors, you can easily import information from local process data historians or IIoT cloud platforms and feed insights from our monitoring and analytics modules back into your existing ecosystem.

Orise™ digital

www.orise.com/digital-products/manufacturing-ai/industrial-ai-application

More industry-grade features and specs

Less False-alarms

Thanks to post-processing algorithms, learning through operator feedback and extensive reporting functions that summarize status over longer periods of time.

Simple to use but powerful

Signal monitoring distinguish sensors issues from system issues with the signal validator and drift detectors. Detect unexpected changes in system settings.

Multi-target real-time optimization and process control

Maximize results under economical and operational constrains by leveraging Orise Manufacturing AI's expertise in optimization algorithms and advanced process control.

Customer Cases

StoraEnso

TENNECO

AGFA *Agfa*

Predictive Health Monitoring of Paper Machines and Stock Preparation

At Stora Enso's Langerbrugge site, Orise continuously monitors over 600 assets and 30,000 signals.

It detects early degradation in motors, valves, and control loops—cutting downtime and improving diagnostics.

These cases demonstrate Orise's ability to optimize operations and enhance decision-making.

Improved OEE of automotive components production lines with ML-based data analytics tools

Tenneco uses Orise to monitor complex automated assembly lines by analyzing PLC signals to detect early signs of bottlenecks or failures.

This enables faster root cause diagnosis, improved uptime, and more data-driven decisions for maintenance and operations—ensuring higher availability and consistent asset performance.

Batch Chemistry Process Monitoring powered by AI

AGFA integrated Orise as an AI layer on top of existing alarms.

It now provides early warning of anomalies weeks in advance, allowing for timely intervention and predictive maintenance.

Extra Benefits

- Maximized OEE: Boost availability, performance, and quality with real-time insights and proactive monitoring.
- Cost Savings: Shift from reactive to predictive maintenance to cut labor costs and avoid disruptions.
- Sustainability Gains: Reduce waste and energy consumption.
- Extended Equipment Lifespan: Spot early asset issues to prevent damage and downtime.
- Seamless Integration: Plug into your existing systems with minimal disruption

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