

EXPERION[®] OPERATIONS ASSISTANT



Honeywell

INTRODUCTION

In the realm of complex automated operations, the pivotal role of your workforce cannot be overstated. While technology and systems are integral to success, it is the actions of panel operators that dictate process safety, operational efficiency, and overall plant operations.

Achieving optimal plant performance relies heavily on operators and supervisors who are empowered to make swift, accurate, and effective decisions.



A SOLUTION FOR OPERATIONAL EXCELLENCE BY EMPOWERING WORKFORCE

Honeywell's advanced AI-powered solution is designed to transform the way you monitor plant operations and enhance decision-making accuracy and speed for operators. By integrating

historical data with real-time insights, we offer a comprehensive solution that empowers operations managers and panel operators to perform at their best.

Honeywell's Experion® Operations Assistant merges operational analytics with real-time insights, advice, and guidance for your team, ensuring every member is equipped to excel.

PERFORMANCE BENCHMARKING AND TRACKING



Historical Data Analysis

Assistance to identify performance boundaries for key performance indicators (KPIs) and baselines for operational metrics, helping plant managers identify improvement opportunities.



Metrics-Based Dashboard

An intuitive dashboard provides operations managers, training managers, and supervisors with critical performance metrics for informed action and effective training planning.



Detailed Reports

Generate comprehensive reports that offer a clear overview of performance metrics, helping in tracking progress and recognizing improvement areas.

REAL-TIME OPERATOR SUPPORT



Predictive Alerts

Receive alerts about impending issues or incidents, allowing for proactive measures.



AI-Powered Decision Support

Access real-time analysis and insights, enabling faster and more accurate decision-making.



EXPERION® OPERATIONS SOLUTION FEATURES

OPERATOR ADVISOR DASHBOARD

- **Comprehensive Metrics:** This dashboard provides managers with detailed performance measurements, allowing for objective assessments and benchmarking of operational performance against both standard operations and the highest historical achievements.
- **Improvement Tracking:** Monitor operational performance over time with the capability to detect early warning signs of potential issues. This feature enables managers to drill down into data to identify specific training needs or management challenges.
- **Data-Driven Insights:** Utilize objective data to facilitate informed decision-making and develop standardized plans for operational scaling and training strategies.

THE LOOKAHEAD RUNWAY

This feature presents a dynamic, at-glance visualization of scheduled and predicted events categorized by process area and asset. It highlights scheduled activities and potential anomalies, complete with alerts for deviations and alarms. Operators are empowered to help identify issues before they escalate, enabling them to prioritize actions that prevent upsets and minimize downtime.



Fig 1. Experion® Operations Assistant Runway.

ALARM ASSISTANCE

Leveraging historical data and real-time analysis, this tool enhances alarm response effectiveness and speed. In-built analytics provide a contextualized view of pertinent information, displaying all relevant data on the screen, including critical parameters and upstream or downstream impacts, thereby supporting improved decision-making.



Fig 2. Alarm Assistance and Situation Guidance.

ELECTRONIC WORK INSTRUCTIONS

Digitalized standard operating procedures (SOPs) deliver transcribed action sequences accompanied by actionable recommendations. This feature encourages adherence to established procedures, significantly reducing the likelihood of errors during process incidents.

By integrating these features, the solution empowers your team to enhance operational efficiency, foster a culture of continuous improvement, and drive better performance across the board.

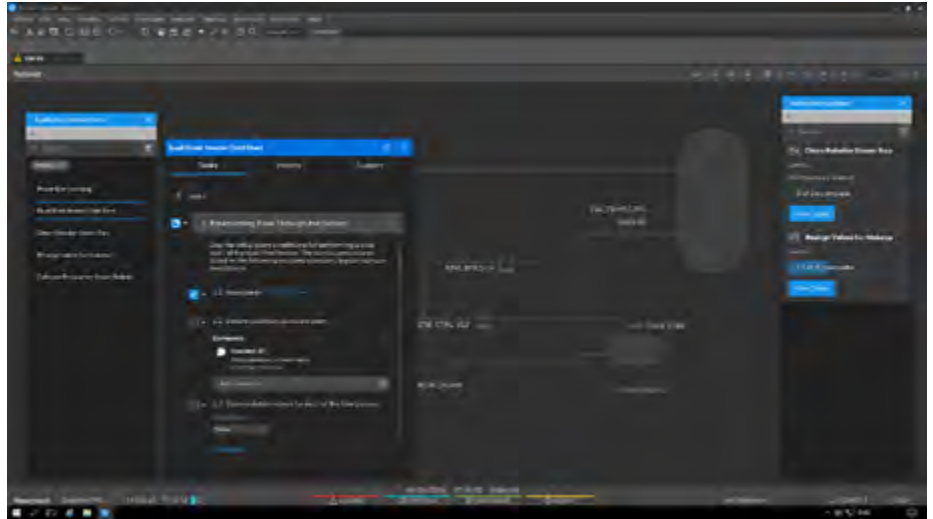


Fig 3. Electronic Work Instructions.

WHY CHOOSE EXPERION® OPERATIONS ASSISTANT?



Innovative Technology

Our innovative AI and machine learning algorithms are at the forefront of technology, converting your data into accurate, reliable insights and a robust decision support system.



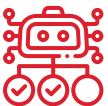
On-Premises Security

Your data remains on-site, eliminating the need for cloud storage and improving protection of sensitive information.



Seamless Integration with Experion®

Operators receive alerts and insights directly on the Experion® Console or Flex Station, eliminating the need to switch between different computers or applications. This streamlined approach enhances operability and efficiency.



Validated AI

The validation workflow allows subject matter expert or Senior operator to approve “the assistance (analysis and action recommendation).” Only approved “assistance” is presented to operator. This ensures the AI outcomes are trustable.



Honeywell's Domain Expertise

Backed by a proven track record in solutions utilizing model-based control and machine learning, such as Advanced Process Control (APC), Asset Performance Management (APM), and Field Process Knowledge System (PKS), we leverage Honeywell's extensive industry knowledge to deliver unparalleled operational support.

OVERALL BENEFITS

Honeywell is working with Chevron to help their operators make decisions to increase the efficiency, safety and reliability of process operations and industrial assets.

THE KEY BENEFITS OF POST DEPLOYING EXPERION OPERATIONS ASSISTANT INCLUDE:

- **Effective:** Effectively establish baselines for normal operations.
- **Data-Driven Upskilling:** Create performance-based growth strategies using actionable metrics.
- **Proactive Issue Management:** Improve response times with early detection and alerts.
- **Knowledge Retention:** Capture and apply organizational expertise by learning from past process upsets.
- **24/7 Intelligent Support:** Access actionable summaries and guided responses anytime.
- **Operational Consistency:** Analytics guiding the implementation of actions consistent with best practices established over time.
- **Workforce Resilience:** Mitigate the impact of skills attrition through embedded operational intelligence.

Contact us today to learn more and schedule a demonstration.

For more information

For more information about Honeywell's high efficiency portfolio, please visit Thermal Solutions. [Honeywell.com](https://www.honeywell.com) or contact your Honeywell Thermal Solutions representative.

Honeywell Process Solutions

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THE
FUTURE
IS
WHAT
WE
MAKE IT

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