

STREAMLINING HMI GRAPHICS FOR OPERATOR EFFICIENCY

Simplified HMI Graphics for Improved Operator Focus

A manufacturer streamlined HMI displays to reduce operator confusion, leading to faster response times and more consistent operations across multiple production sites.

Enhancing Clarity Through Standardized Graphics

To reduce operator confusion, the team redesigned HMI screens to follow ISA 101 standards, moving from complex visuals to a clean grayscale design. Bright colors were reserved solely for alarms and warnings, making it easier for operators to spot critical issues.

The new design provided clear overviews at multiple levels, supporting both process and area monitoring, which significantly improved usability and focus.

Reducing Alarm Noise for Better Decision-Making

The alarm system was optimized using ISA 18.2 standards, keeping only the alarms that required immediate operator action. This minimized distractions from nuisance alarms, helping operators focus on essential tasks.

By reducing unnecessary interventions, operators could trust the system's alerts, allowing them to react quickly and efficiently to critical situations.

Increased Efficiency and Operator Satisfaction

Over several months, the new graphics and alarm management system yielded measurable improvements in operator efficiency and focus.

Simplified visuals and reduced alarms created a more intuitive and reliable HMI experience, with operators reporting higher satisfaction and confidence in the system.

KEY OUTCOMES

- Improved operator focus and response times with streamlined HMI graphics
- Reduced nuisance alarms, enabling faster and more accurate decisions
- Enhanced operator trust and satisfaction with a clear, intuitive interface

