

TECHNICAL FACTS

SafeHMI Powered by IconTrust®



#safetygoesdigital

SafeHMI
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Simplify Automation with Intuitive, Built-in Safety

Mastering safety-critical challenges

Until now, operators have relied on conventional hardwired solutions for safety-critical applications. In cases, where safety critical information must be displayed, often MIMIC panels connected to conventional IOs are still in use, or customers have accepted reduced safety by relying on non-safe visualization. With the increasing demand for digitalized safety solutions, cost efficiency, and protection against cyber threats throughout the complete lifecycle, a modern and future-proof solution is becoming essential.

Safe visualization and intuitive operation to simplify automation

SafeHMI replaces conventional MIMIC panels or enhances safety when used alongside non-safe SCADA systems.

It consists of HIMA SIL 3 certified safety systems, certified SILworX solution libraries, and a safety-related, certified HMI panel designed for safe and clear visualization of critical information (according to SIL 3, IEC 61508) with a user-friendly touch interface for simplified operator handling (according to SIL 2, IEC 61508). Integrated safety aspects ensure seamless and protected system integration.

This enables intuitive operation and reliable monitoring of safety-critical processes. The SafeHMI solution provides all necessary tools for failure prevention and supports a comprehensive change management process.

Maximizing efficiency and safety over the entire lifecycle

SafeHMI meets today's digitalized demands by providing a flexible and safe solution that ensures easy adaption to new requirements, less effort in engineering, and simplified proof of conformity.

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Why SafeHMI adds value:

The transition from conventional hard-wired panels to digitalized solutions with safeHMI brings significant advantages in compliance, streamlined engineering, and change management while ensuring long-term safety and security throughout the entire lifecycle.

Benefits

Safety & Security

- Lower complexity compared to conventional hard-wired solutions
- Continuous security and risk mitigation over the system's lifetime

Enduring Compliance

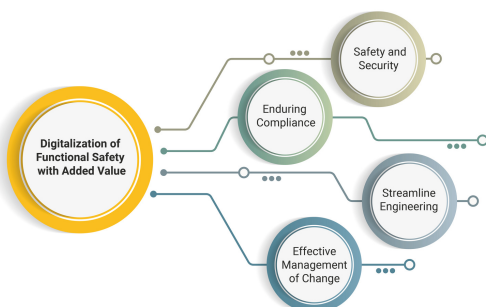
- Full compliance with functional safety standard
- Minimized risks and lower costs through optimized safety processes

Streamline Engineering

- Simplified setup saves time and resources
- Flexible adaptation to changing requirements

Efficient Management of Change

- Digitalized change tracking for full transparency
- Pre-testing ensures reliability before implementation



Highlights

Standardized safety components for seamless integration

SILworX library with IEC 61508 certified function blocks

- Dynamical alarm list
- Override switch
- Recipe changeover / recipe selection

Safe communication with PROFINET/PROFIsafe

Safe visualization with SafeHMI

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- IconTrust® technology
- 12" TFT-Panel, 1024 x 768
- SIL 3 indication, touch control SIL 2
- Webinterface for configuration & validation:
 - max. 20 supervised indication areas
 - max. 254 screen masks



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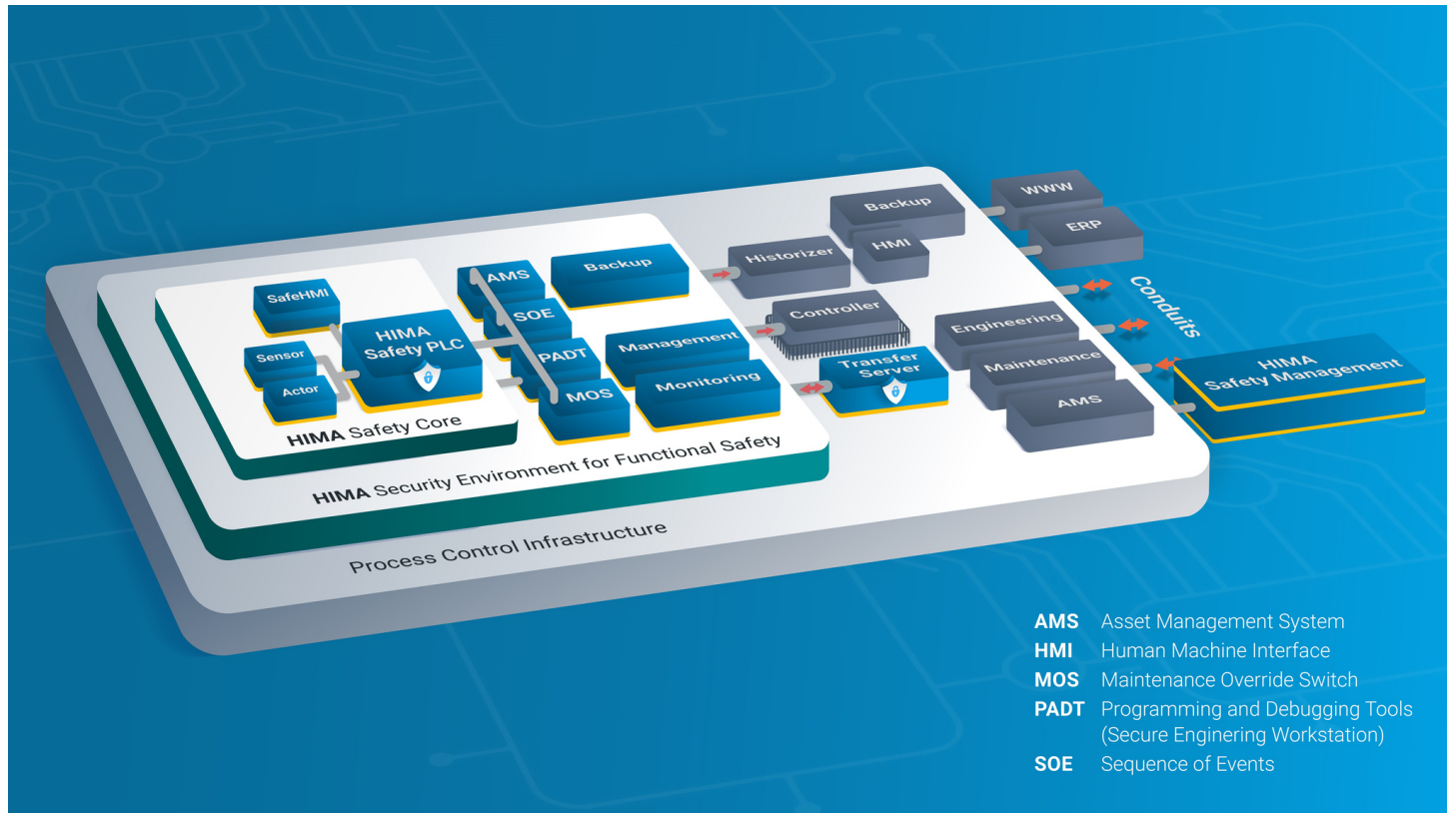
Digitalization can offer plant operators and EPCs real added value: More safety and at the same time less effort and costs.

We support you in fully exploiting the potential of digitalization.

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HIMA Security Environment for Functional Safety



The “HIMA Security Environment for Functional Safety” separates Safety and Security. SafeHMI is part of HIMA’s Safety Core.

HIMA offers a secure environment for functional safety to maintain safety and security throughout the entire lifecycle.

The security environment conceptual design enables flexible implementation adaptable to project-specific constraints. The SafeHMI solution ensures improved process reliability and simple engineering through intuitive user guidance.