


The HIMA logo consists of the word "HIMA" in white, uppercase letters inside a white oval, which is set against a blue rectangular background.

HIMA

The text "SMART SAFETY." is written in white, uppercase letters on a yellow rectangular background that has a folded corner effect.

SMART
SAFETY.

The background of the entire page is a photograph of an industrial facility, likely a refinery or chemical plant, at night. The scene is illuminated by various lights, including bright yellow safety lights and some red lights, creating a complex and busy atmosphere. Tall distillation columns and a network of pipes and walkways are visible against a dark blue sky.

Turning Safety and Security
into Profitability

Smart Safety for the Process Industry

Turning Concerns into Benefits

As an industrial plant operator, you face a seemingly overwhelming challenge: On the one hand, you must ensure that your plants are efficient and that production processes run smoothly. On the other hand, you are obliged to provide adequate protection – and the meaning of “adequate” is constantly being redefined.

There are countless considerations that have to be taken into account when developing a safety strategy fit for the digital age.

Challenge #1

Safety

Your company is under increasing pressure today to be cost-efficient while also ensuring safety – for people, the environment, industrial plants and equipment. Yet regulations become stricter, plants more complex, and specialist expertise rarer.

The HIMA approach:

Always comply with the highest safety standards

International guidelines and standards provide detailed descriptions of the necessary measures to minimize risks. For your plant to be certified, it not only has to be built in a manner that conforms to standards, but must also be operated in accordance with guidelines. When it comes to safety systems, you can rely on HIMA. We make no compromises in the certification process. Our applications, products, and services comply with the current safety and security standards, including IEC 61508, IEC 61511, and IEC 62443. This means you can get certified quickly and always remain compliant.

Challenge #2


Security

While the Industrial Internet of Things provides many new business opportunities, it makes staying secure more complicated. Plants now have to be protected against cyberattacks. In a time where office networks and industrial automation are growing, hackers can exploit any weaknesses in security, potentially putting plants at risk of serious damage. Hackers can remotely manipulate, control, and even destroy plants.

The HIMA approach:

Minimize cybersecurity risks, as well as the effects of a security breach

At HIMA, we take a systematic approach to cybersecurity, treating it as an integral part of all our hardware and software. In line with IEC 62443, we follow the segregation principle, keeping safety system and process control system separate. With HIMA you keep everything under control – from the hardware to the operating system and the programming environment. HIMA offers lasting protection against cybersecurity threats as well as services to analyze and improve existing safety automation systems.

A photograph of an industrial plant at night, illuminated by blue and white lights. The scene features a tall, cylindrical tower on the left and a large, curved structure with vertical slats on the right. The sky is a deep blue, and the overall atmosphere is industrial and modern.

Challenge #3

Profitability

While the Industrial Internet of Things provides many new business opportunities, it makes staying profitable more complicated. Therefore, uninterrupted operation of your plants is a must, but not enough. You also need to make sure that they are able to run at their performance limit – and that you have qualified staff available for operation and maintenance without straining your budget.

The HIMA approach:

Run your plant safely, but efficiently and profitably at the same time

Long-term investments in safety and security pay off financially. These investments reduce the risk of unplanned downtime, strengthening the relationship of trust between companies, investors, and partners. In thinking about safety, HIMA always considers the entire lifecycle of your plant. This approach leads to optimized processes that make your plant more efficient and more profitable. Support from qualified specialists ensures that your protection systems are always up to date and that you comply with current safety standards.

Challenge #4

Reliability

Globalization and digitization puts enormous pressure on the industry. The market situation and customer expectations have become more demanding – there is no longer any leeway for faults. But since connected plants and flexible processes have increased complexity as well, it is even more challenging to keep plants running safely at all times.

The HIMA approach:

Rely on decades of safety experience, proven technologies, and expert services

HIMA has specialized in safety for more than 45 years. As a pioneer of modern safety technology, we offer our customers long-term stability and reliability, both in the development of solutions and the provision of services over the lifetime of a process plant. We are globally positioned and deliver quality Made in Germany. The results are higher plant uptime and availability, as well as lower CAPEX and OPEX.



Digitizing Safely by Mitigating Risks

In the era of Industry 4.0, everything is interconnected. In today's smart factories, equipment communicates with other equipment, machines control themselves, and processes are becoming increasingly agile. However, the more complex industrial plants become, the more rigorous the requirements that are imposed on functional safety in the process industry. And never before have these requirements changed so rapidly.



The digitized industry has also given rise to a new kind of threat: cyberattacks. Cybercriminals not only hack computers, but can also manipulate valves, causing pumps to explode, for example. In the last couple of years, plants have increasingly become targets of digital espionage and sabotage – and the number of incidents will rise significantly.

With the aggravation of well-known risks and the emergence of new ones, the importance of safety and security has risen tremendously, too. Most safety systems that used to be sufficient can no longer cope with the demands of the digital industry. Safety technology today must be just as smart as the production processes of the future. You need applications that

perfectly match your requirements, while still ensuring reliable protection – even when regulations or technologies change. Systems that take full advantage of big data to control and optimize themselves and make it possible to more effectively utilize plant capacity and operate plants more profitably.

It is time to rethink.

HIMA: Redefining Industrial Safety

HIMA is the world's leading independent provider of industrial safety applications. The world's largest companies in the process industry trust our products and services. We achieved this trust by constantly questioning the status quo and developing new safety technology that is ahead of its time. In this way, we have set new standards time and time again. HIMA has always been close to the needs of the industry since our company's foundation 110 years ago. For more than 45 years, we have specialized in safety and are now advancing safety technology for the digital age.

Managing Industrial Plants – Safely and Intelligently

Based on decades of safety expertise, we support you in the operation of industrial plants – not only with maximum safety and reliability, but also intelligently. That means continuously investing in new technology, such as modular, networked, and manageable systems. In turn, this means we don't just offer products – but tailored, all-in-one solutions with first-class consulting and services.

At heart, we have remained what we have always been: a flexible, medium-sized, and owner-managed family company, independent in our financial and strategic decisions and technical developments. This gives us the freedom to advise you as personally and individually as you desire – and make the best decisions for your industrial plants, together with you.



Smart Safety

Smart Safety: Ready for the Digitized Industry

A few years ago, we asked ourselves a simple question: How can you protect industrial plants during and beyond their digital transformation? After intensive collaboration with our customers and vast research and development efforts, the Smart Safety concept emerged.

Smart Safety is a holistic approach: It combines a platform for functional safety and cybersecurity with tailored applications and support services, including consulting, engineering, and education.

What Does That Mean for You?

Working with the most demanding process industry companies for decades, we can confidently say: In industrial safety, you can rely on us as a single partner for everything you need now and in the future.

Together with your team, our experienced safety specialists develop a safety strategy that fits your requirements. And since Smart Safety is a backwards-compatible approach, you can integrate your existing solutions into your new future-ready environment and only modernize when necessary – saving costs in the process.



A Less Complex, More Flexible Architecture

Whether your plant is large or small, standardized or customized, you will find the right safety controllers at HIMA. You don't need to think about what system is best suited to your needs, since our expert engineers help you develop a customized architecture. From the compact HIMatrix to the latest HIQuad X, all HIMA controllers are based on the same platform, combining hardware and software tailored to each other. This ensures you reduce the complexity of your safety systems, stay flexible at all times, and are always able to modify your architecture easily when requirements change. So not only your plant is safe – but your investment as well.

And because digitization gives rise to a wealth of new risks for the process industry, we built cybersecurity right into the core of the HIMA Smart Safety Platform. That means that with HIMA, you ensure functional safety and security at the same time.

“We are not simply selling products. We are offering safety in times of increasing uncertainty. Regardless of how your requirements develop: With HIMA, you protect your plants and your profitability.”

Stefan Basenach

Group Vice President Business Segment Process

Four Elements, Perfectly Interwoven

Firmware

The HIMA-developed proprietary firmware is used for every product, minimizing cybersecurity and functional safety risks.

Secure communication

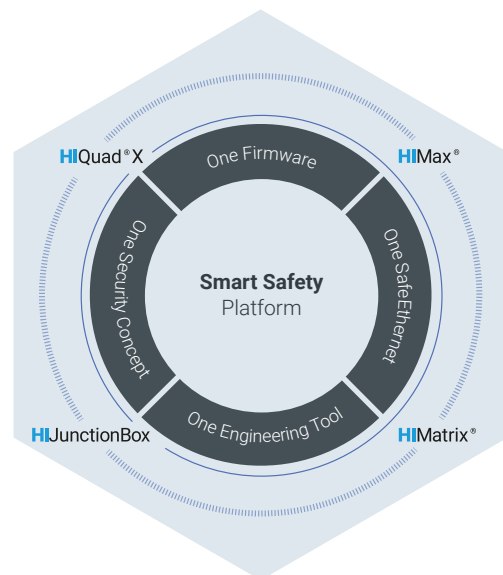
The SafeEthernet protocol safely connects all your HIMA systems, wherever they are.

Cybersecurity

We treat cybersecurity as an integral part of all HIMA products and systematically keep safety and process control systems separated.

Engineering software

The HIMA engineering tool SILworX lets you program your applications quickly and easily and reduces training efforts.

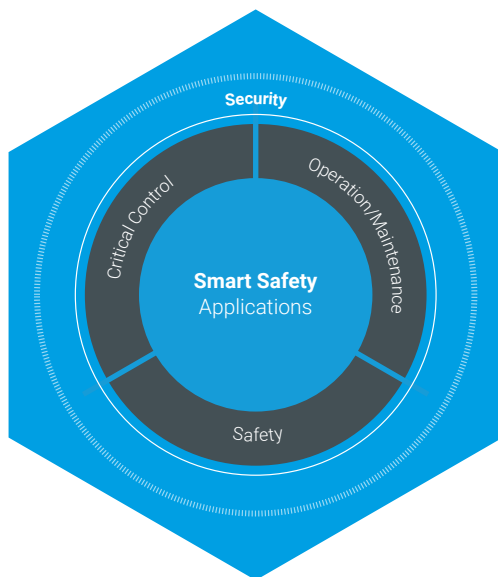


Smart Safety Applications

Protect your Plants and Your Profit

Smart Safety Applications from HIMA are tailored to your individual needs and are designed to rise to the safety challenges of modern plants. Based on decades of industry experience, our products offer the maximum level of safety possible and can be easily adapted when requirements change. Most of the world's largest process industry companies take advantage of HIMA's specialist applications for a diverse range of uses, including rotating machinery, burner control, and pipeline management.

All HIMA applications are based on pre-certified function blocks. This enables fast commissioning at your plant, while simplifying the approval process for your safety systems. Once installed, HIMA applications allow your plant to run at the operating limit and minimize downtime. In this way, you increase plant availability and, consequently, profitability.



Smart Safety Services

Focus on Your Business and Rest Assured


Safety is not a one-off initiative or a quick and permanent fix – it is a continuous, dynamic process. That's why you need to consider the entire lifecycle of your safety system: from planning and installation to operation and modification. In this way, you reduce the total lifecycle costs and avoid safety malfunctions, preventable downtime, and unexpected costs. Your systems are guaranteed to stay reliable, available, and productive. Putting this strategy into practice requires significant effort and extensive knowledge.

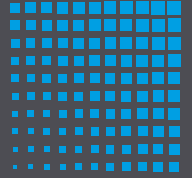
HIMA Smart Safety Services provide you with flexible and scalable support from a single partner throughout the entire lifecycle. You don't need to think about whether your plant complies with all current safety standards, whether your employees have the necessary skills to resolve any issues, or whether spare parts are still available. You can just focus on your core business.



If you would like to find out more about Smart Safety from HIMA, get in touch with us today.

For a list of international contacts, please visit:

 www.hima.com/en/about-hima/contacts-worldwide



110 Years
Transforming
Safety

About HIMA

The HIMA Group is the world's leading independent provider of smart safety solutions for industrial applications. With more than 35,000 installed TÜV-certified safety systems worldwide, HIMA qualifies as the technology leader in this sector. Its expert engineers develop customized solutions that help increase safety, cybersecurity, and profitability of plants and factories. For over 45 years, HIMA has been a trusted partner to the world's largest oil, gas, chemical, and energy-producing companies.



www.hima.com