R. STAHL AUTOMATION
MORE THAN YOU EXPECT
THE PERFECT SOLUTION FOR YOUR INDUSTRY

As a leading supplier of automation technology for hazardous areas for almost 50 years, R. STAHL has been providing state-of-the-art components and complete solutions, perfectly matched to the varied requirements of different industries. R. STAHL is committed to providing the highest level of safety and quality “Made in Germany” in explosion protection. Be it the integration in modern Ethernet networks, the integration of diagnostics and device data in plant asset management systems, wireless communication or the development of visualisation concepts – we meet any challenge!

LIFE SCIENCES
Our products and solutions meet the hygiene directives according to GMP. The implementation of requirements to the FDA 21 CFR Part 11 complement our full suite of services.

FINE & SPECIALITY CHEMICALS
R. STAHL’s versatile products perfectly integrate in the modern modular Industry 4.0 automation concepts.

OIL & GAS UPSTREAM
Our automation products and solutions combine robustness with state-of-the-art technology.

OIL & GAS MIDSTREAM AND DOWNSTREAM
Our high-quality, durable products guarantee a high degree of availability and ensure that operating costs stay low.

MARITIME APPLICATIONS WITH LNG & FPSO
International ship approvals and our long-standing experience ensure perfectly tuned system solutions that are used on LNG tankers and FPSO vessels around the world.

BASIC CHEMICALS & PLASTICS INDUSTRY
The comprehensive diagnostics functions integrated in R. STAHL products enable predictive maintenance and failure-free operation.

MACHINE BUILDING & PACKAGE UNITS
Our internationally certified components enable us to develop solutions tailored to meet the specific requirements of the machinery.

FOOD & BEVERAGE INDUSTRY
R. STAHL products are ideally suited for this type of industry; they are certified for use in dust and gas explosion hazard areas and EHEDG-compliant.
The business unit R. STAHL Automation combines the competencies and know-how of the product areas “Interface and Solutions” and “HMI and Camera Systems” to manage the fast-changing world and challenges of automation with high-quality products and solutions.

Our experts from around the world actively participate in technology task forces, e.g. “Ethernet in the field”, and are represented in all major committees on international explosion protection like ATEX, IEC, NEC, and many more.

YOUR EXPERT FOR HAZARDOUS-AREA SOLUTIONS

- From explosion-proof components to customised solutions – all „Made by R. STAHL“.
- Global know-how in explosion protection and multifaceted expertise in automation solutions.
- Many years of project experience, also in extreme ambient conditions.
- Production is certified according to ATEX and IECEx.
**SYSTEMS AND SOLUTIONS**

**INTERFACES PRODUCTS**

- In process automation, intrinsic safety is the production type of a higher priority in order to prevent failures on hazardous locations.
- R. STAHL provides the full range of solutions:
  - ISbus fieldbus technology for effective FF H1 and ISbus installations.
  - IS1+ remote I/O – the most widely used system in the world.
  - ISpac isolators with galvanic isolation and can also be used around hazardous areas.
  - INTRINSPAK safety barriers for customised application.
  - All devices are certified to international explosion protection standards, tailored to the specific needs of your production plant.

**HMI PRODUCTS**

- The major part of R. STAHL human-machine inter- faces (HMI) is the MANTA GMP family. These devices are designed to interconnect in hazardous areas Zone 1, 2, 21, 22, Class I, Division 1 / Class II, Division 1 / Class III, Division 2. R. STAHL HMI products can now be used in hazardous areas, around steps, or in GDP environments.
- 7” / 10” / 12” / 17” / 18” and 24” displays.
- All-established technologies in HMI systems.
- IP66 / IP67 / IP69K. Dust tight and waterproof.
- Parallel devices, such as keyboards or touch panels.

**CAMERA AND CCTV SOLUTIONS**

- 24/7 operation in hazardous areas.
- One camera meets the requirements relating to functional safety or atmosphere standards; the predominant part of them faces and HMI solutions are certified for use in GMP and cleanroom environments.
- Of superior quality and performance, they ensure reliable operation in harsh and extreme temperature environments.
- Our portfolio includes high-quality compact, PTZ, dome, and thermal imaging cameras, available in analogue or IP versions.
- Design for standard temperatures ranging from -40 °C up to +167 °F.
- Designed for the special requirements of the pharmaceutical, life sciences, or fine chemical industries and in cleanrooms; they are suitable for hazardous areas Zone 1, 2, 21, 22, Class I, Division 2 / Class II, Division 1 / Class III, Division 2.
- R. STAHL offers today solutions that are ready for tomorrow’s production environments:
  - Hardware and software components to configure the best CCTV systems tailored to your needs. Solutions to the challenges in order to improve your safety or performance.
  - DANTEC, our suite of software components, will enable the integration of standard CCTV systems. Based on the use of existing CCTV systems.

**NETWORK PRODUCTS**

- Wireless using WiFi access points. 802.11a/b/g/n.
- Ethernet switches for ‘op is’ optical data transmission.
- System Solutions with Wireless and Medium TVC displays in hazardous areas using WiFi access or fiber optic cables.
- Combinations of Ethernet and WiFi access.
- System Solutions Wireless, Ethernet and HMI.