



Automation Interfaces and Solutions

Pls contact Stahl@unitconcept.com for more details and pricing



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Hazardous-area automation specialist R. STAHL is just the expert you've been looking for for your innovative interface and system solutions for use in hazardous areas: Through the collective efforts of its 1800 employees across the globe, the company is able to maintain a sharp focus on state-of-the-art technology, quality and innovation.

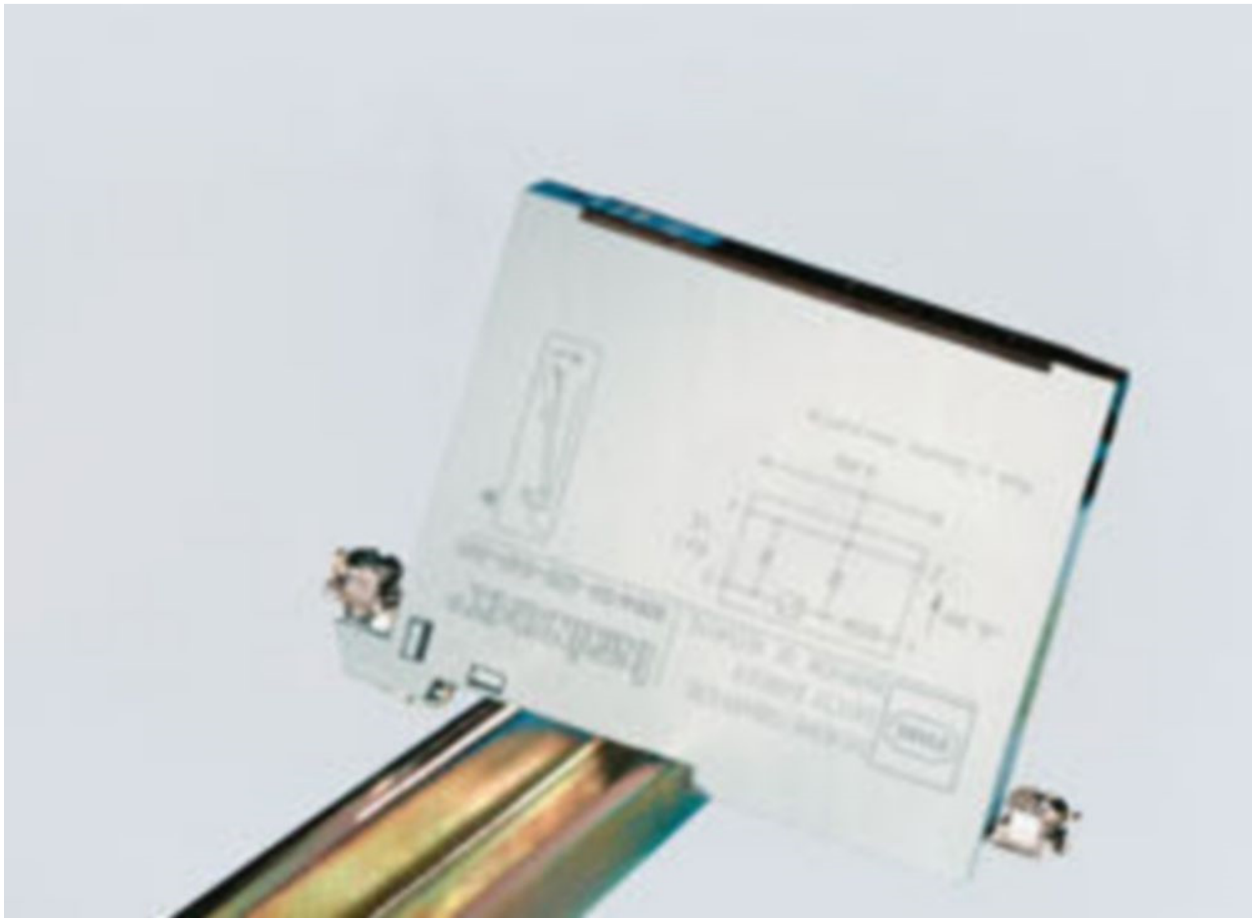
We offer advice, we plan, and we produce and supply everything from standard components to complete systems – in short, we provide you with the optimal solution for your automation needs.

Automation technology presents significant challenges in hazardous areas. With R. STAHL's 30 years' experience in both standard and project-specific automation solutions, you can be sure that you are in safe hands. R. STAHL supplies safety barriers, isolators, remote I/O systems, fieldbus, wireless and networking technology, Ex p systems and earthing monitoring equipment, either as separate components or integrated into your application-specific system solution.

Our products boast state-of-the-art technology; the intelligent combination of different types of protection means that they can be an effective solution that requires a comparatively modest financial outlay. With our certified production, there is no need to acquire additional certification before you can use these system solutions, saving you both time and money.

- Comprehensive product range catering for all your hazardous-area automation requirements
- Application-specific implementation without the need for time-consuming certification
- Capitalise on our expertise to effectively combine any types of protection

Safety Barriers



Safety barriers connect intrinsically safe and non-intrinsically safe circuits, such as Ex i field devices with automation systems. Whether it's for standard signals such as 4 to 20 mA or for less common signals, you can trust us to find you the right solution. R. STAHL will be happy to help you choose the right solution from our comprehensive range.

The design of R. STAHL's single-channel and two-channel safety barriers is wonderfully simple – as a result, not only do they take up very little space, but you can also expect an impressively long service life. What is more, they are incredibly easy to install. All you need to do is snap them onto the DIN rail, this action having the added advantage that it equalises the potential between the conductive parts. A standardised back-up fuse that can be used in any model reduces storage requirements and makes maintenance in explosive atmospheres simpler.

- Comprehensive portfolio of safety barriers for solutions fit for any application
- Compact design – just 12 mm wide
- Easy to install, including equipotential bonding connection

Isolators



These isolators provide galvanic separation when they integrate field devices in process systems into automation systems. R. STAHL's ISpac isolator range is easy to use and boasts an impressive range of functions and a long service life.

The combination of pac bus and ISpac isolators makes it incredibly easy to connect the auxiliary power supply and read error messages: All you need to do is snap the pac bus and the device onto the DIN rail and the wiring is complete; power is supplied via the DIN rail. Only R. STAHL allows you to install all devices on a DIN rail or in a pac carrier.

All ISpac isolators for analogue signals can transmit HART signals. With a combination of isolators, HART multiplexers and termination boards, these signals can be efficiently transmitted to asset management systems. Every aspect of our ISpac isolators is designed with functional safety in mind. These products conform to SIL 2 and SIL 3, including devices with trip amplifier function.

- Compact: Two-channel modules for all functions
- Time-saving system for wiring: pac bus or pac carrier
- Broad range of applications: Can be used for SIL applications up to SIL 3
- HART-capable

Remote I/O



Fieldbus Solutions



ISbus products are high-performance fieldbus installations with PROFIBUS PA and FOUNDATION Fieldbus H1. Combining the High Power Trunk concept with our comprehensive range of accessories has meant that we offer one of the most effective installation solutions on the market both for Zones 1 and 2 and for non-hazardous areas.

With its ISbus system, R. STAHL provides the components and solutions for state-of-the-art fieldbus system installations with PROFIBUS PA or FOUNDATION™ fieldbus in hazardous areas.

The fieldbus couplers are available for both FISCO/Entity and non-intrinsically safe field devices, and come in cost-optimised versions for Zone 1 or 2 installations.

To go with these, R. STAHL offers a comprehensive range of field enclosures in various sizes and materials. These field enclosures can be tailored to customers' requirements.

Uniquely to R. STAHL, the advanced physical layer diagnostics are integrated into the fieldbus power supplies as standard and, depending on the requirement, can be used efficiently with the scalable diagnostics concept.

Features:

- Efficient installation: Up to 12-channel field device coupler with integrated power management
- Fieldbus power supply with modular design for single or redundant power supplies, plus physical layer diagnostics integrated as standard
- Scalable physical layer diagnostics with smartphone app and effective DTM

Grounding System and Grounding Monitoring Device



Earthing monitoring devices eliminate explosion hazards when loading flammable liquids, gases and powders. In order to achieve this, they provide electrostatic earthing and monitor it continuously. R. STAHL supplies earthing systems for a huge variety of objects, with practical, cleverly designed additional functions to make your life easier.

R. STAHL supplies earthing monitoring devices for a wide variety of objects, such as tanker lorries, tank wagons, drums, etc. Our earthing systems use robust stainless steel earthing clamps. Not only this, but options such as the automatic retractor and practical accessories make this product very easy to use.

8125 and 8146 series devices provide earthing without object recognition and can be used universally. 8485 series earthing devices check the quality of the earth connection and detect whether the earthing clamp has been correctly secured to the object that is to be filled, and that it has not accidentally been secured to the loading equipment. This automatically eliminates the possibility of improper use.

- Solutions for Zones 1, 2, 21 and 22
- Solutions designed for a variety of objects such as tanker lorries, tank wagons, drums or FIBCs
- User-friendly extras such as coiled cables and automatic retractors plus a wide range of accessories such as horns, beacons and key-operated switches

Ex P Products



The technique of pressurized apparatus Ex p offers for many applications a practical and economical solution to protect single electrical components or complete assemblies in a potentially explosive atmosphere.

- Meets standards EN 60079-0, EN 60079-2, EN 60079-7, EN 60079-11, EN 60079-18, EN 61241-0, EN 61241-1, EN 61241-4
- The range includes complete control and distribution panels to the pressurized protection standard Ex p, empty enclosures for equipment to the Ex p protection standard, complete with fitted components including control device, air supply and pressure monitoring unit, individual components protected to pressurized standard Ex p
- Pressurized apparatus with leakage compensation with continuous circulation of protective gas

Networking Technology



- Media Converter for Zone 2
- Ethernet Terminal
- Optical Fibre Splice Cassette
- Fieldbus Isolating Repeater
- FO Fieldbus Isolating Repeater
- Wireless HART Gateway
- WLAN Access Point – Zone 2
- WLAN Access Point – Zone 1
- HF Isolator
- Coaxial Cable Bushing