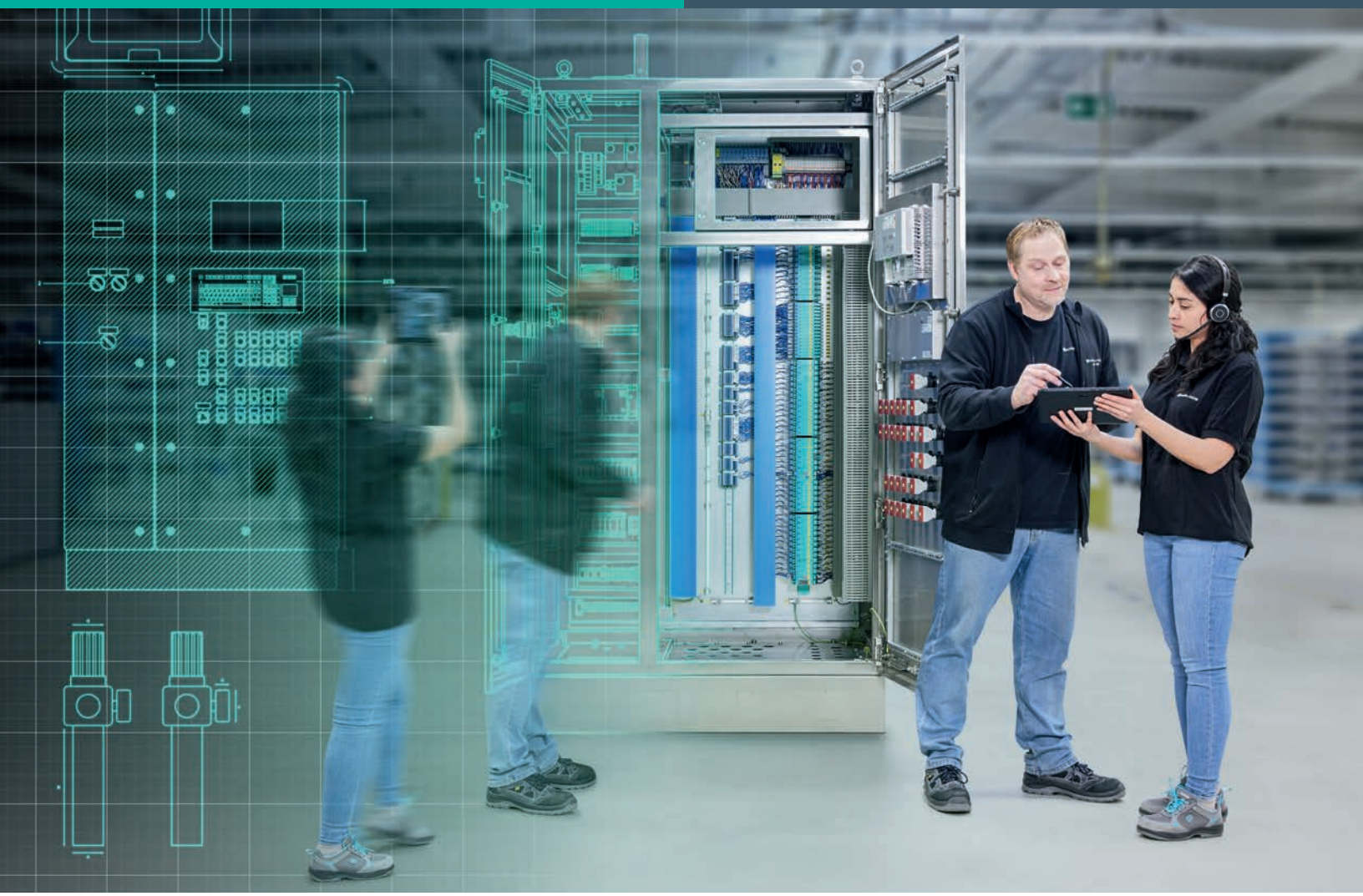
Solution-Driven. Together.

Consultation, engineering, manufacturing, and final certification from a single source.

Engineered Solutions for Hazardous Areas from Pepperl+Fuchs



Your automation, our passion.

PEPPERL+FUCHS

Engineered Solutions

Designed to Meet Your Explosion Protection Needs

For decades, Pepperl+Fuchs has helped define the evolution of electrical explosion protection—from pioneering intrinsic safety to advancing today's breakthrough technologies like Ethernet-APL. Our engineers don't just follow industry trends—they help create them.

That legacy translates into confidence for you. Whether you need to measure, control, switch, or distribute power in hazardous areas, you'll have a partner with proven expertise at your side. Our specialists work closely with you to select the right technologies, ensure compliance with global standards, and define the exact solution for your application. From concept to completion, we collaborate with you to develop specifications and bring them to life through our global Solution Engineering Centers. The result: a fully certified, turnkey solution designed to deliver uncompromising safety and performance in your demanding environments. When safety matters most, trust the experts.



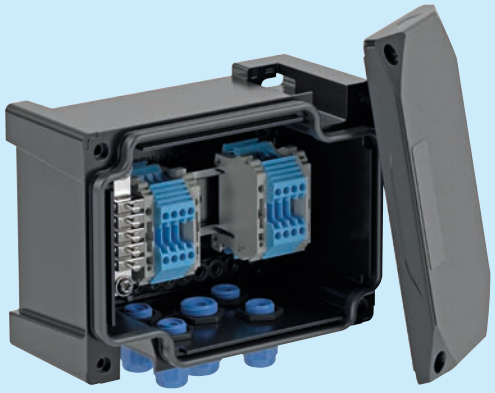
Purge and Pressurization

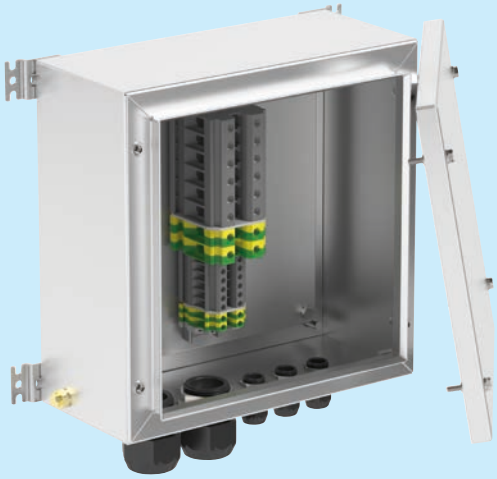
- Pepperl+Fuchs Bebco EPS® is the benchmark in purge and pressurization equipment; our reputation for hazardous-area protection is unrivaled
- Simple and straightforward method of protection that delivers a truly simple and cost-effective solution
- Complete, ready-to-deploy pressurized enclosure solutions
- Safely use general purpose equipment in hazardous environments
- Fully automated monitoring and control of enclosure pressure and temperature
- Intuitive, menu-driven interfaces for easy operation and maximum flexibility

IECEx ATEX CCOE

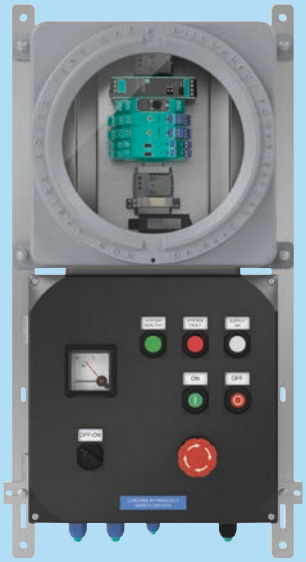
Customized Junction Boxes

- Customized according to your specifications
- Wide range of enclosure materials, sizes, ambient temperature ranges and compliance with international explosion protection standards
- Broad portfolio for the safe connection and distribution of electrical energy in hazardous areas
- Standard sizes readily available
- Fast manufacturing process for configured solutions
- Extensive range of accessories







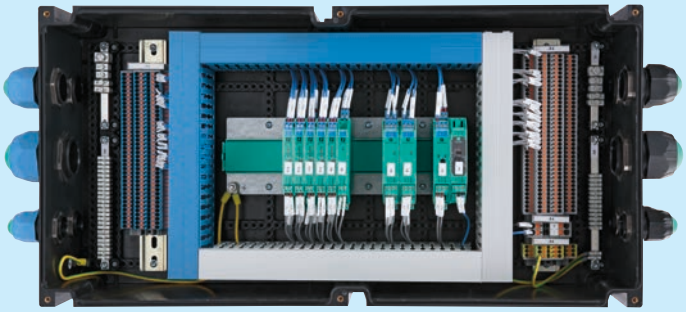


Control Solutions

- Tailor-made control solutions: from compact control units to control stations or complex control and distribution panels
- Extensive range of enclosure sizes and operating elements
- Integration of electrical components and operating elements according to customer specifications
- Selection of viewing windows for monitoring instruments
- Clever combinations allow customers to benefit from the advantages of both types of protection
- Wide range of operating elements – including push buttons, contact blocks, rotary switches, or key control switches

Interfaces

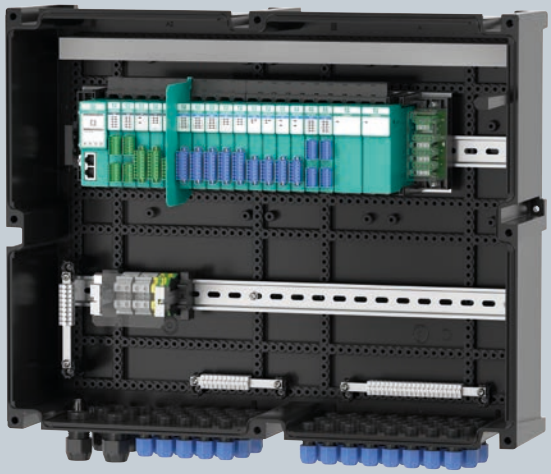
- Interface solutions from a single source: intrinsic safety barriers, signal conditioners, surge protection, and power supplies
- Control cabinets optimized for control-specific solutions
- Custom-built to the smallest detail
- Modules for mounting on DIN rails, power rails, or termination boards











Remote I/O

- For highly efficient connection of various devices and signals with 4–20 mA, temperature measurement conversion, valve control, and various other functions
- Pre-assembled GRP or stainless-steel field junction boxes with backplanes and redundancy options
- Reduced wiring effort due to the bus interface to the control system
- Effective digitalization with HART communication in retrofit projects and extensions to existing systems

HMI

- HMI solutions with flexible mounting options: pedestal, swivel arm, panel mounting, wall and ceiling mounting, mobile systems
- Various communication technologies: remote monitor (thin clients), PC, or direct monitor
- Suitable for continuous operation in harsh environmental conditions and explosion-hazardous areas
- Special features such as shock and vibration resistance, outdoor suitability for chemical plants, and GMP-compliant design for life sciences and pharmaceutical applications
- Large selection of peripheral devices: RFID readers, keyboards, or 1-D/2-D code handheld readers, and more





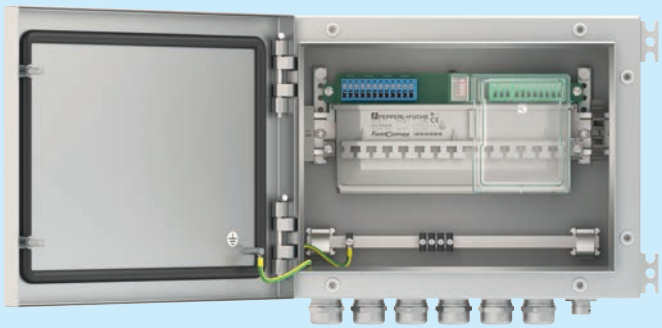
Ethernet-APL

- Ethernet-APL solutions for end-to-end digital communication from the field level to higher-level systems
- Ready-to-install and pre-wired plug-and-go solutions
- Fast transmission of large amounts of data
- Fully certified in GRP or stainless-steel enclosures
- Can be integrated into a single enclosure with remote I/O systems and other I/Os for intrinsically safe discrete and analog signals

Fieldbus

- Fieldbus solutions for reliable connection of instrumentation via FOUNDATION Fieldbus H1 or PROFIBUS PA
- For all common explosion protection methods (FISCO, Entity, High-Power Trunk) and every hazardous area
- Pre-assembled, pre-wired fieldbus junction box in a flameproof/explosionproof enclosure made of GRP or stainless steel
- Discrete inputs and outputs can be integrated via multi-input/output component
- Temperature multiplexer for eight signals at one address







Wireless Access Points

- Wireless access point solutions for the use of industry-standard access points (e.g., Cisco or Aruba) in hazardous areas
- Rugged enclosures made of GRP, stainless steel, or aluminum
- Optional integration of Ex-certified antennas for optimum network coverage
- Installation of other radio-based components (RFID, UWB, BLE, LoRaWAN) and realization of IoT solutions possible

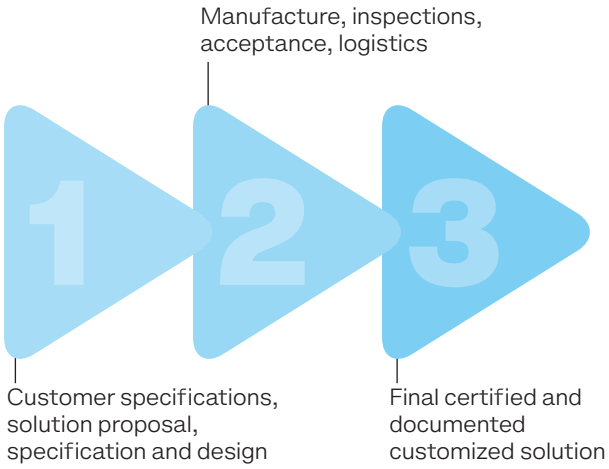
Engineered Solutions

Solution Engineering Centers (SECs) Around the World

We support you with individual solutions and accompany you in partnership from your request to the delivery of the final certified solution. For the demanding requirements of the process industry, Pepperl+Fuchs has therefore established special Solution Engineering Centers worldwide, where experienced experts plan, engineer, and manufacture customer-specific solutions on a daily basis. Here, customers receive ready-to-use complete solutions from a single source—in a wide variety of explosion protection types, including certification for hazardous areas.

- **Safety is our top priority:** Complete portfolio for hazardous areas from Pepperl+Fuchs—the world's leading provider and expert in explosion protection.
- **Smooth and efficient project flow:** Pepperl+Fuchs has decades of experience in the field of engineered solutions for hazardous areas with thousands of solutions delivered
- **Understanding and realizing customer needs:** Intensive consulting from Pepperl+Fuchs and cooperative development with the customer throughout the entire process
- **Fits any application:** Ex-certified complete solutions tailored to specific customer needs ready for installation directly out of the Solution Engineering Centers
- **Peace of mind:** Our experienced solutions team will guide your solution through the application process, ensuring project finances and timelines stay on track
- **Investment protection:** Sustainable process automation solutions for both existing and new infrastructures

3 steps to your next solution



For more information, visit
pepperl-fuchs.com/if-ex-solutions



Your automation, our passion.

- Industrial Sensors
- Industrial Communication and Interfaces
- Enterprise Mobility
- Hazardous Area Products and Solutions

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