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Delivering Customized Solutions

From components to solutions

Each application for customers in the oil and gas, chemical, and pharmaceutical industries is different and provides new challenges for the process automation systems that are tailored to meet specific requirements.

As the expert for hazardous area interface components, Pepperl+Fuchs has extended its capabilities and scope of supply to engineer and deliver sub-assemblies, and even customized solutions, based on their proven technologies and process automation components.

Implementing a structure of regional Competence Centers with experienced engineers and assembly capabilities for hazardous area automation systems, Pepperl+Fuchs develop and build customized solutions. Those solutions are based on customers' specifications and application requirements, and integrate latest technology components including interface products, remote I/O systems, and fieldbus components. Pepperl+Fuchs latest growth has been in the area of visualization solutions, and they are highly capable of solving applications involving these technologies.

From basic concept evaluations, detail engineering and assembly, to factory acceptance and site start-up, Pepperl+Fuchs automation engineers customize fieldbus junction box solutions, remote I/O cabinet solutions, or control and interface cabinets to meet specific project requirements.

Pepperl+Fuchs delivers customized solutions based on a modular design approach and standardized technology components with a lead-time of as little as several days. Process automation customers appreciate the added value of a customized plug-and-play solution containing Pepperl+Fuchs technology components, a full set of documentation, and system

approvals. These benefits result in dramatically reduced engineering and installation cost and project lead times.

Two typical examples of customized solutions are:

- a) Integrated FB Remote I/O cabinet solution for a pharmaceutical plant linking electrical and pneumatic field instruments via a Zone 1 mounted remote I/O station and gateway into a Profibus DP coupler and the DCS system.

Integrated components include stainless steel housing 316L, bus coupler FB8206, valve driver FB6208, I/O modules, terminals, blocks, valve blocks, and valve accessories.

- b) Fieldbus system installation running the automation of a large paper mill containing over 130 fieldbus power cabinets and field distribution cabinets.

Integrated components include a control room cabinet with Profibus DP-PA Gateway HD2-GTR-4PA, fieldbus power supply modules on mounting system HD2-FBPS-1.500, stainless steel field cabinet with fieldbus segment protector R2-SP-N6, fieldbus valve coupler FD0-VC-Ex4.PA, and low power solenoid valves.

Key words: FB Remote I/O, Remote I/O, Remote I/O Systems, fieldbus power cabinet, field distribution cabinet, fieldbus power supply, fieldbus power hub, cabinet solution, pharmaceutical industry, oil and gas industry, chemical industry, PROFIBUS, systems and solutions, Pepperl+Fuchs, Process Automation

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Fig. 1: Fieldbus Power Hub Cabinet



Fig. 2: Field Distribution station with Segment Protector, valve coupler and low power valves



Fig. 3: Remote I/O Zone 1 field cabinet solution