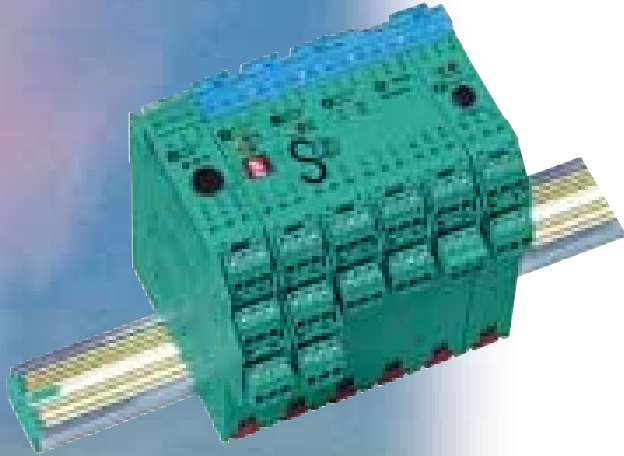


PROCESS AUTOMATION



INSTRUMENTATION WITH

INTERFACE TECHNOLOGY



Our Logos, your product guide



Practical sensors to measure levels in liquids and solids.



Point-to-Point – single standard signal lines transmit field signals conventionally to the control system.



Conventional Point-to-Point connections to the process and bus connections to the control system. Our Remote I/O Systems.



Installing – connecting – isolating fieldbus systems with Bus-to-Bus technology

However you tackle the problem - we'll help you to find a solution!

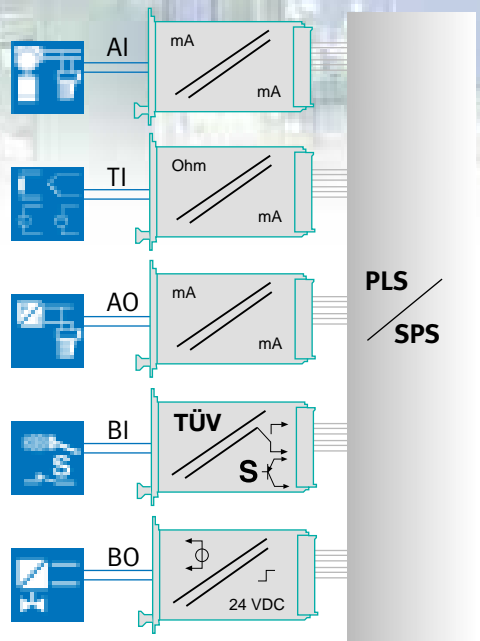
Right from the planning stage, through to servicing your installation, our systems guarantee effective and economical signal transfer. From individual signals, through to system applications for large and complex plants – together we can find the answers that serve you best!

E-SYSTEM

...the classic path for signal processing...



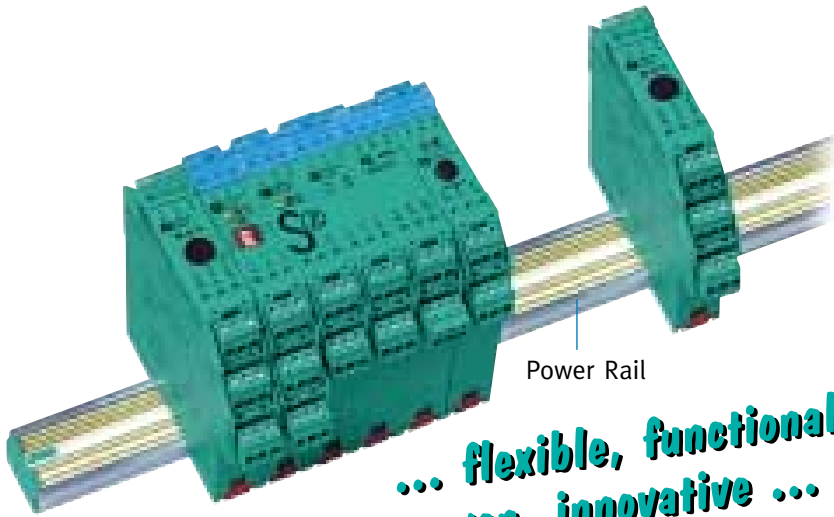
YOUR APPLICATION – THE SOLUTION!



KEY BENEFITS

- Extensive product range
- High channel density
- Optimised front panel design
- Isolation chamber system, simple installation, High cost/effectiveness
- Communication via **PACTware**
-
-

K-SYSTEM



... flexible, functional,
proven, innovative ...

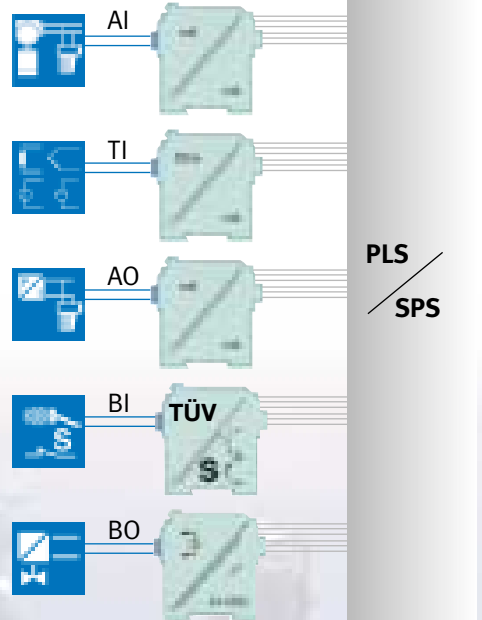
KEY BENEFITS

- Compact design
- Power supply and collective error messaging via the Power Rail as an option
- I.S. or non I.S. ... naturally
- Communication via **PACTware**
- Also for IEC61508 – without additional costs
-
-

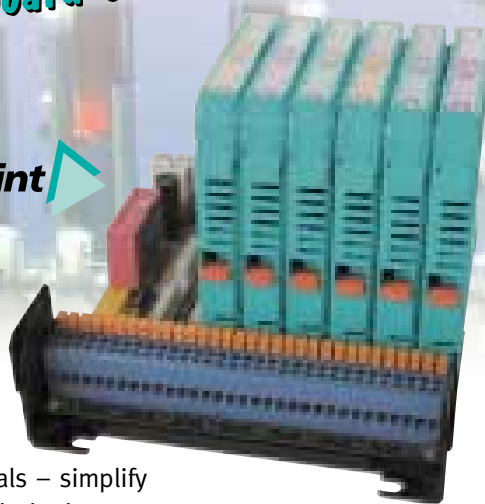
SIL
IEC61508



YOUR APPLICATION – THE SOLUTION!



The motherboard solution



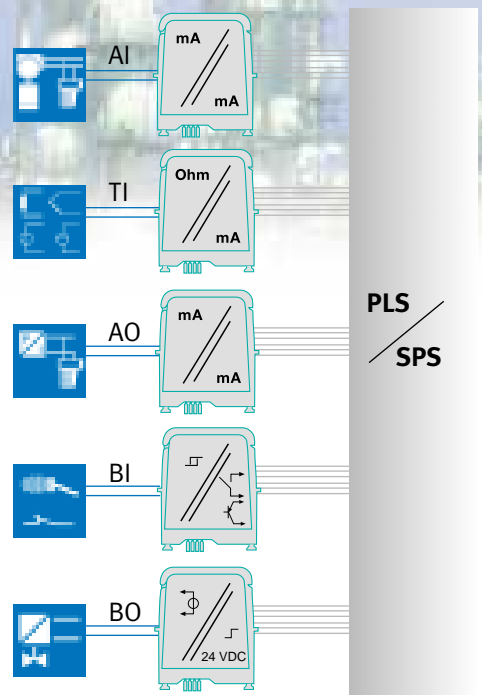
KEY BENEFITS

- “Knife-edge” loop disconnect terminals – simplify testing and commissioning
- The modules are plugged-in, no wiring – no source of error!
- Various interface connections for different automation systems
- Option: Fault monitoring module for lead short-circuit and lead breakage monitoring
- Integrated HART Multiplexer Type Mux2700
- Also for IEC61508 – without additional costs
-
-

SIL
IEC61508

HID2000

YOUR APPLICATION – THE SOLUTION!

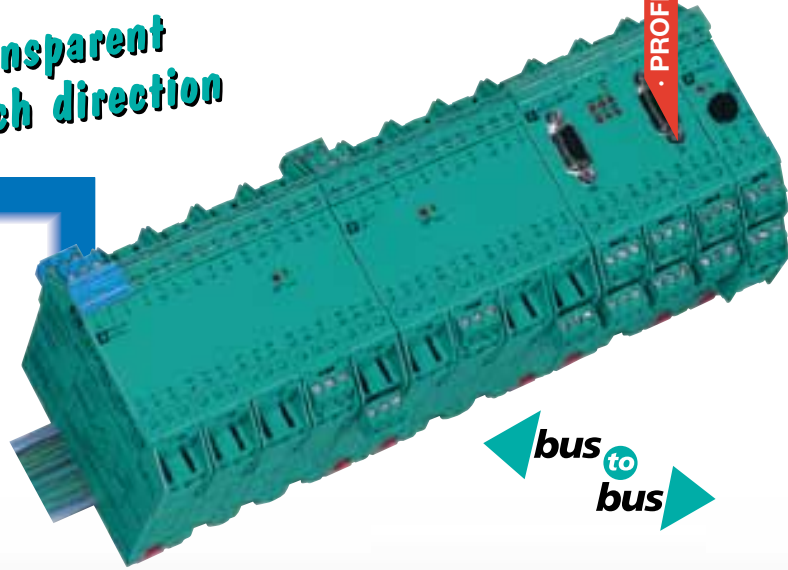


COMMUNICATION VIA SEGMENT-COUPLER – SK-...

KEY BENEFITS

- Installation inside the safe area or zone 2
- Independent of master and system topology
- Full transparency for simple commissioning
- Up to 12 MBit/s on PROFIBUS DP
- Highest possible availability due to power supply, media and head station redundancy
- Certificated for field devices in accordance with the FISCO Model
-
-

...transparent in each direction



bus to bus

can be directly connected in the field



■ hydrostatic pressure transmitter



■ compact ultrasonic device



INTRINSICALLY SAFE REMOTE PROCESS INTERFACE –

IS-RPI

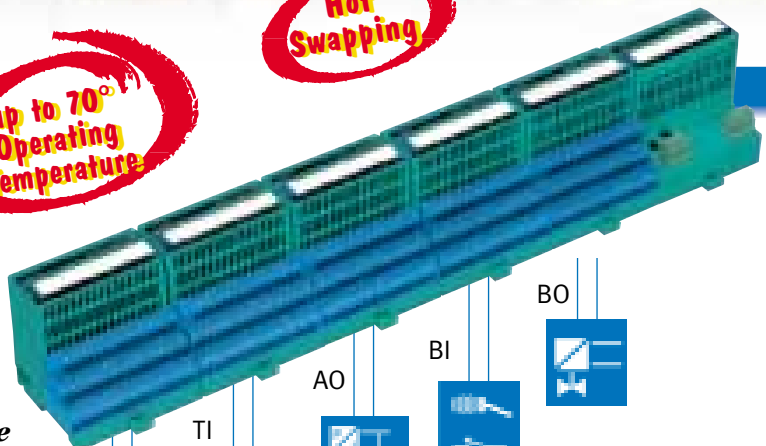
fast and cost/effective signal transfer, plus...

KEY BENEFITS

- Intrinsically-safe installation in Zone 1
- Bus coupling via PROFIBUS PA, Modbus, ControlNet, PROFIBUS DPE, Fibre optical waveguides
- Devices can be replaced while the system is running
- Communication via **PACTware**
-
-

up to 70°C Operating Temperature

Hot Swapping



point to bus

PROFIBUS PA · Modbus · ControlNet · PROFIBUS DPE · Fibre Optical Coupling · Foundation Fieldbus

PROFIBUS · PROFIBUS

FIELDBUS PROCESS I/O – FPI

KEY BENEFITS

- Intrinsically-safe installation in Ex-Zone 1
- Intrinsically-safe power supply via the Fieldbus
- Many field interfaces on one bus segment
- Bus coupling via PROFIBUS PA, Foundation Fieldbus, AS-Interface Ex
- Actuating time monitoring on conventional, non-intelligent valves for preventive maintenance
- Various functions are available, max. 12 channels
- Communication via segment coupler
-
-

...the "Island" for your basic sensor/actuator...

point to bus

up to 70°C
Operating Temperature



OVERVOLTAGE PROTECTION

for C&I signals

KEY BENEFITS

- Suitable for all C&I signals
- Fixing and earthing in one step via the standard rail
- Option: Direct plug-in to K and RPI system devices
- Installation in the C&I cabinet or in the field
- Auto-Reset and maintenance-free
-
-



HART-MULTIPLEXER SYSTEM

KEY BENEFITS

- The “Big” system, for up to 7.936 field devices
- Modular – up to 31 masters, each with 15 slaves
- Networking of the masters with RS 485 connection
- Various transfer interfaces for different automation systems through HART plug-in modules
- Also for IEC61508 – without additional costs
-
-



...the “Big” system for implementation of your Plant Asset Management Software



SIL3
IEC61508



HIS – HART INTERFACE SOLUTIONS

KEY BENEFITS

- Galvanic isolation of the individual channels of the Mux2700
- Simple networking with RS 485 connection
- Various transfer connections for different automation systems
- Secure HART communication via integrated HART filter on the board
- Compatible with standard Plant Asset Management software (e.g. AMS)
- Also for IEC61508 – without additional costs
-
-



Multiplexer and complete interface hardware – matched to your Plant Asset Management software



PS1550

KEY BENEFITS

- 24 V DC output, max 36 A or 30 A with n+1 redundancy
- Redundancy for input, output module and fan
- Modules are hot swappable
- 19” rack or wall-mounting
- Monitoring of all critical functions
-
-

...the power pack series for specially critical applications





PACTware

Manufacturer and Fieldbus independent configuration tool with FDT Interface (Field Device Tool)

KEY BENEFITS

- A FDT frame application
- The platform for all DTMs according to the FDT specification
- A tool for all Pepperl+Fuchs devices
- Integration of arbitrary devices from various manufacturers
-
-

FDT defines the interface for the integration of device specific DTMs into a FDT frame application.

DTM (Device Type Manager) is a device description with a user-interface for field devices, components like Remote I/O and communication interfaces according to the FDT specification. A DTM enables in each FDT frame application always the same operation of the device.

PACTware BASIC Version	
Typ	Functionality
PW2-BASIC	Includes all available DTMs of the Pepperl+Fuchs K and E devices, HART Multiplexer, Remote I/O systems RPI and IS-RPI and level devices. Restricted function: <u>no</u> printing, <u>no</u> saving
Lizences	
PW2-P.PTP	Professional point to point licence for all available DTMs of the Pepperl+Fuchs K-, E-, and HID devices
PW2-P.LEVEL	Professional level licence for all available DTMs of the Pepperl+Fuchs level devices
PW2-P.HART100	Professional HART100 licence for connection of 100 HART devices to the Pepperl+Fuchs HART Multiplexer
PW2-P.HART500	Professional HART500 licence for connection of 500 HART devices to the Pepperl+Fuchs HART Multiplexer
PW2-P.RIO100	Professional RIO100 licence for connection of 100 loops to the Pepperl+Fuchs Remote I/O systems RPI and IS RPI inclusive HART Multiplexer
PW2-P.RIO500	Professional RIO500 licence for connection of 500 loops to the Pepperl+Fuchs Remote I/O system RPI und IS RPI inclusive HART Multiplexer
PW2-ENTERPRISE	Enterprise licence for all available DTMs of the Pepperl+Fuchs K-, E-, and HID devices HART Multiplexer, Remote I/O systems RPI and IS-RPI and level devices Devices, systems and loops unlimited

Licensing: The point to point conventional interface technique packages, point to bus Remote I/O, point to bus HART and Level are singly available or all together and can be downloaded (http://www.pepperl-fuchs.com/pa/accessories/pactware/main_e.html) as a **BASIC Version** with restricted functions: no printing, no saving.

A **BASIC Version** CD-ROM can also be ordered from Pepperl+Fuchs.

The activation of the restricted functions printing and saving requires a licence key. The different licences with the

functionalities as listed in the spreadsheet can be ordered from Pepperl+Fuchs.

As a result of the order Pepperl+Fuchs will send a registration file (.reg) which includes the licence key. By double clicking to the registration file the BASIC Version becomes licensed and the restriction no print, no save is lifted.

System requirements: PC with Pentium II processor and minimum 64 MB random access memory. Operating System Windows 98, Windows NT 4.0 service pack 4 and higher, Windows 2000, Windows XP.

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