WITH OUR STRENGTH AND VERSATILITY
WE ARE THERE WHEN YOU NEED US ...

OUR CENTERS OF EXCELLENCE DEFINE OUR GLOBAL PRESENCE
A global presence enables Pepperl+Fuchs to offer the best of both worlds: extremely high engineering standards and low-cost manufacturing facilities. It means we have exactly what you need to make your process efficient and reliable. It means the most advanced technical expertise in the business is standard with every product. It means we have the largest and most ingenious staff of engineers and field representatives in the industry. It means we’re there when you need us—anywhere in the world.

HERITAGE OF INNOVATION
Our heritage of innovation has enabled us to maintain a world-leading position as supplier to the process industries. For more than 60 years we’ve succeeded in remaining at the leading edge of technologies with our components and solutions. Now we step into the next technology dimension: DART and Wireless HART.

BUSINESS OVERVIEW
Our target industries are involved with chemicals, pharmaceuticals, oil & gas, petrochemicals, and other areas including wastewater treatment and power technology. Pepperl+Fuchs is both a supplier and partner for end users, control systems manufacturers, system integrators, and engineering contractors.
From our expert application analysis and global key account management, to our on-site engineering and technical support after the sale, we stand solidly behind every product we build.
To learn more about Pepperl+Fuchs and the advantage of a worldwide presence, visit our website at www.pepperl-fuchs.com.

... in Northern / Central America
headquartered in Twinsburg, Ohio, USA

... in Asia Pacific
headquartered in Singapore

... in Western Europe
headquartered in Antwerp, Belgium

... in the Middle East and India
headquartered in Dubai

... in Northern Europe
headquartered near Manchester, UK

... in Southern and Eastern Europe
headquartered near Milan, Italy

... in South America
headquartered near Sao Paulo, Brazil

... in Germany
Committed to engineering excellence, our worldwide headquarters is located in Mannheim, Germany. More than 600 specialists are dedicated to continuing our heritage of high quality and innovation.
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THE VISION TO INNOVATE, THE POWER TO SUCCEED: COMPONENTS, SYSTEMS, SOLUTIONS AND TECHNOLOGIES

COMPONENTS

The most demanding requirements of your automated process application are met with our versatile range of explosion protection components and interface modules.

Here are our highlights for 2008.

HART LOOP CONVERTER
Get the most out of your HART devices. The HART Loop converter provides three analog signals out of four HART variables.

H-System
Save space and costs with new interfaces on termination board technology. The HiC modules reduce cabinet space by one third over standard technology.

Fiber Optic Coupler
Communicate on PROFIBUS over long distances with high data transmission rates. The coupler converts PROFIBUS signals to fiber optics and vice versa.

SYSTEMS

Over and above our proven portfolio of conventional interface components you can benefit from our continuously growing offering of application oriented systems, all the way through fieldbus systems and purge & pressurization for the diverse control tasks in process automation.

MODULAR I/O
Combine your existing conventional field devices with modern FOUNDATION™ fieldbus technology. The modular I/O integrates analog and discrete signals into fieldbus communication.

BECBO 6000 SERIES
Use any kind of equipment in explosion hazardous environments. The 6000 Series Purge & Pressurization system combines gas and dust protection, based on both ATEX and UL/CSA regulations.
SOLUTIONS

With tailor-made cabinet designs that integrate application-optimized combinations of components and interface modules, you get the best control solutions for your process plant. Additionally, well-proven HMI solutions for various control and configuration tasks guarantee your safety even in explosion hazardous areas.

VisuNet HMI
Maintain close control even in hazardous areas. The VisuNet Visualization and Control system is fully protected but still allows communication with all ethernet-capable devices.

Customized Cabinets
Does your application require specific interfacing and protection method combinations? Pepperl+Fuchs’ experienced project engineers will design cabinets and field junction boxes exactly to your needs.

TECHNOLOGIES

New technologies are the base for enhanced efficiency and business success. In order to offer state-of-the-art components, systems and solutions we stay at the leading edge of developments, always seeking new ideas to make things better.
When it comes to fieldbus, explosion protection and related technologies, Pepperl+Fuchs has always been among the forerunners. The very latest buzzwords are DART and WirelessHART. Both technologies are presently at the center of attention in our R&D labs and point to interesting aspects of tomorrow's fieldbus infrastructure.

**DART**
The new DART Technology (Dynamic Arc Recognition and Termination) is an innovative approach to explosion protection and enables intrinsically safe applications with 50 watts of usable energy. DART High-Power and DART fieldbus provide intrinsic safety to a great number of new and existing process automation applications. Pepperl+Fuchs is at the forefront in the development of this new technology. In fact, we are actively seeking manufacturers and users who can implement DART technology in their new and existing applications.

**WirelessHART**
Since fieldbus is now well established in process automation, wireless solutions are the next evolutionary step in field communication. The new WirelessHART standard, released in September 2007, will increase the communication possibilities in the field and enable new applications in Asset Management, Predictive Maintenance and Quality Control. This will break new ground in running facilities efficiently and competitively. WirelessHART is the next step in the evolution of HART. It is based directly on the HART protocol, but is free of the physical transfer path, providing a wireless communication standard for process measurement and control applications. WirelessHART is seamlessly integrated into HART-capable systems. In process automation, a wide variety of applications can now be realized economically with the upcoming first market-ready generation of wireless devices.
In explosion hazardous environments even the small amount of energy needed to illuminate a bulb could prove fatal. Pepperl+Fuchs intrinsic safety barrier systems limit the electrical energy to below the ignition level – so you and your processing plant will always be protected.
Isolated barriers guarantee a safe, reliable and efficient signal transmission between your field device and the control system. In addition to their inherent power limitation, these isolators feature galvanic isolation between the signal loop and all other power loops. Pepperl+Fuchs offers the most complete range of products to meet all your application and installation requirements.

**K-SYSTEM**

The K-System, with more than 150 modules, is the leading intrinsic safety isolators portfolio. K-System is a full line of DIN rail mounted isolators that are packed with features that make process control interface applications simple to design and easy to install.

- Supply and collective error messaging via Power Rail
- Comprehensive module portfolio and accessories
- Removable terminal blocks

**THE NEW KC-MODULES**

The new KC-Modules feature a housing with a width of only 12.5 mm. As a result, cabinet space requirements are reduced by as much as 40%. Sophisticated circuit design minimizes power dissipation – your cabinet stays cool.

- Digital and analog input/output modules
- System features similar to widely used K-System
- Lead monitoring

**E-SYSTEM**

The Eurocards for 19" racks are widely used in refineries and chemical plants where they provide safety and productivity. The inputs are galvanically isolated from the outputs. As a result, intrinsically safe signal transmission is achieved.

- New variants are compatible to AH and Digitable
- High density and PC configurable
- Lead monitoring
Are you tired of connecting and checking hundreds of signal cables? Termination board systems have just one cable between the DCS and the isolated barriers. What could be easier or more reliable?
The H-System forms the signal interface level based on termination board technology. Specific system connectors on the termination board guarantee fast and reliable connection to the I/O cards of the automation control system. Preassembled cables with multi-pin system connectors reduce the engineering effort and replace the extensive manual point-to-point wiring. Simplified documentation and reduced danger of wiring faults minimize the time needed for commissioning.

**H-SYSTEM**

The H-System represents a highly reliable system with redundant power supply and a DCS specific connection with system cables.

- Compact design for space-saving installation
- Requires 30% less space than conventional systems
- Easy engineering – fast commissioning

**H-SYSTEM INTERFACE MODULES**

The isolated barriers of the H-System have an unparalleled low power dissipation and allow quick and easy installation on the system termination boards.

- HiC – Isolated barriers for single loop integrity
- HiD – Isolated barriers for high channel density
- New in 2008: 4-channel analog and safety switch amplifiers

**H-SYSTEM TERMINATION BOARDS**

The H-System termination boards are designed for 8 or 16 interface modules and install on 35 mm DIN mounting rail.

- HiC-termination boards for single loop integrity and great space saving up to 30%
- HiD-termination boards for high channel density result in only 4.5 mm per channel
- Fault indication boards and HART communication boards
Power is the driving force of society. From water power in the middle ages and steam power in the 19th century to today’s highly efficient electrical power plants, every step in the growth of industrialization is accompanied with a need for more effective power sources. Power sources must be efficient, reliable, and easy to maintain – just like the power supplies from Pepperl+Fuchs.
Pepperl+Fuchs is knowledgeable in the high-risk industry of hazardous area protection and the need for reliable power. Our power supplies are particularly well-suited to mission-critical applications. From emergency shut-down to fieldbus / HART networks, as well as many general-purpose process control applications, Pepperl+Fuchs power supplies meet the most demanding requirements of today’s control system engineer.

**POWER SUPPLY PS 2500**

Our high-integrity power supply is specifically designed for mission-critical applications. With built-in alarm outputs, AC or DC input, adjustable output voltage and 90 A load capability it meets most requirements of the automated processing industry. The high-efficiency design with N+1 redundancy and hot swapping of the modules make this supply the best choice for a wide range of uses.

**POWER RAIL**

Power Rail is the sophisticated connecting element for all modules of K-System and RPI Remote I/O. It fits into a standard DIN mounting rail and thus forms an ideal component for retrofit of existing systems.

- Automatic power connection when modules are snapped to the Power Rail – no extra wiring from module to module required
- Integrated communication lines for bus, HART and group error signals.
- Saves time and effort

**K-SYSTEM POWER SUPPLIES**

These power supplies feed up to 4 A to K-System or RPI Remote I/O components via the Power Rail. Various power feed modules allow tailor-made interface system designs.

- Supply a multitude of interface modules without additional wiring needs
- Redundant configuration possible
- Sturdy, efficient and reliable design
Every switching operation creates sparks and a dangerous situation in explosion hazardous environments. The easiest way to eliminate this danger – limit the energy of the spark with Pepperl+Fuchs zener barriers.
Zener barriers offer cost-effective, intrinsic safety solutions for explosion protection by limiting energy in the signal loop. Multiple configurations allow a wide range of signal options.

**SB-SYSTEM**

The new SB-System zener barriers are termination boards with pluggable modules. Thus the system offers the possibility of pre-wiring. The circuit that extends into the hazardous area is separated from the safe area circuit as long as the zener barrier is not inserted. The termination board can be installed on DIN rails.

- Pluggable zener barrier, 1- and 2-channel, with replaceable pre-fuse
- Termination boards for 1-, 6-, or 10-barrier modules
- Common potential equalization with multiple barrier boards

**Z-SYSTEM**

Z-System zener barriers are installed quickly and easily on DIN rail. Earthing/grounding is easily achieved via the mounting rail. An extensive product range is available for a full range of AC and DC applications.

- 1-, 2- and 3-channel versions
- Snap-on DIN rail ground/earth connection
- Replaceable fuse facilitates circuit loop checks and reduces installation cost and space
The parameter values and characteristics of process signals in today’s production plants are almost limitless. Hundreds of measurement loops crowded together in cable trays tend to influence each other. There is an easy way to overcome that chaos – by using isolated signal conditioners.
In order to facilitate efficient processing of today’s various measurement values, signals need to be converted to specific formats. The mutual interaction of measuring loops can be eliminated with galvanic isolation. Signal conditioners allow the transmission of precise measurement values, isolation and the elimination of ground loops. Specific converters collect analog signals from a wide range of field instruments, such as thermocouples and RTDs, and transform them to standard signals, such as 1 ... 5 V or 4 ... 20 mA.

**K-SYSTEM**

K-System signal conditioners are installed on DIN rail. They offer the same system features as the intrinsic safety isolators. Just pick the right signal conditioner for your application from a wide module portfolio.

- Reduced wiring with Power Rail
- Removable terminal blocks
- Fully compatible with isolated barriers

**UNIVERSAL SIGNAL CONDITIONER**

The KFU8-USC-1.D signal conditioner converts a wide range of input values into a standard output signal. Parameterization is easy with a highly visible display and easy-to-use buttons.

- Universal input 0 V ... 10 V, 0 mA ... 20 mA, 0 mV ... 60 mV
- Graphical display for multiple units with trip relay
- Analog output 0/4 mA ... 20 mA, 0 V ... 10 V
The core of today’s information society is the communication highway. The best highway for future-proof plant control is a communication infrastructure with a solid backbone and efficient side roads – the High-Power Trunk concept.
FieldConnex is a comprehensive fieldbus infrastructure system for FOUNDATION fieldbus™ H1 or PROFIBUS PA communication. A wide range of interface products are designed for fast installation and commissioning and allow total control of the fieldbus physical layer. The High-Power Trunk concept maximizes installation distances. The highest number of devices can be connected and maintained while the plant remains in operation.

**POWER HUB**
Our FieldConnex Power Hub is a modular power supply for FOUNDATION fieldbus H1 or transparent coupling of PROFIBUS PA segments to PROFIBUS DP.
- Integration into any process control system
- Fully redundant power modules and gateways
- Extremely low heat dissipation

**POWER SUPPLIES AND POWER CONDITIONERS**
- Snap-on installation with Power Rail
- Extremely compact and energy-efficient design
- Sockets for easy attachment of test plugs
- All-in-one housing

**FIELDBARRIER**
- Installation in Zone 1/Class I, Div. 2
- Devices in Zone 0/Class I, Div. 1
- Galvanic isolation, short-circuit protection
- Intrinsically safe outputs

**SEGMENT PROTECTOR**
- Short-circuit protection
- Installation in Zone 2/Class I, Div. 2
- 4 to 12 outputs non-incendive Ex nL

**FIELDBUS PROCESS INTERFACES**
These specialized interface components allow full integration of analog and digital signals into any fieldbus infrastructure.
- Valve coupler
- Up to 12 digital inputs
- Temperature multi-inputs
Feel the heartbeat of your fieldbus. Just like a doctor diagnoses a medical condition you can ensure the health of your fieldbus infrastructure with Advanced Diagnostics.
Fieldbus systems have never been so easy to manage. Advanced Diagnostics give you the insight into your fieldbus physical layer. Signal strength and quality are monitored in real time, errors are easily detected and fixed. This detailed insight is provided with embedded expert know-how and turns fieldbus into a manageable asset. Clear text instructs the user with actionable information while the plant operates at peak performance.

- Fast commissioning and fully documented validation with Commissioning Wizard
- Timely warning before possible communication interruptions
- High system availability and efficient troubleshooting are guaranteed

**ADVANCED DIAGNOSTIC MODULE FOR THE FieldConnex® POWER HUB**

The Advanced Diagnostic Module plugs into the diagnostic slot of the Power Hub System and provides a continuous health check of your fieldbus network.

- Continuous monitoring of signal conditions
- Information on detoriation using trend analysis
- Integration in any DCS

**THE INTERFACE BETWEEN HUMAN AND FIELDBUS INSTALLATION**

- User guidance with easy-to-use screens
- Online troubleshooting with clear text messages
- Oscilloscope function to diagnose complex scenarios

**MOBILE ADVANCED DIAGNOSTIC MODULE**

Local troubleshooting on-site is no problem with mobile diagnostics. The module interfaces with any fieldbus segment and a laptop PC and offers all advanced diagnostic features of the stationary unit.

- USB-port for laptop connection
- Sturdy transport case with all accessories
- Designed for the traveling professional
When looking for a way to efficiently communicate with a modern DCS and proven legacy field devices, use remote I/O systems from Pepperl+Fuchs.
The remote I/O systems RPI and LB/FB Remote I/O are very cost-effective modular systems to connect a wide range of discrete and analog sensors and actuators to process control systems over a fieldbus. A variety of gateways are available to make use of different bus protocols. The systems are characterized by durability, reliability and simple handling.

**RPI – REMOTE I/O FOR SAFE AREAS OR ZONE 2/CLASS I, DIV. 2**

- Simple, flexible DIN rail mounting using the Power Rail concept
- Easily combined with conventional I/O using K-System isolators
- Modular design with 1 ... 4 channels in a single module

**LB REMOTE I/O FOR SAFE AREAS OR ZONE 2/CLASS I, DIV. 2**

- Space saving design as a modular system with up to 8 channels in one module
- Combination of various explosion protection methods to meet your safety requirements
- High-power outputs for control valves

**FB REMOTE I/O FOR ZONE 1**
For efficient plant control and asset management, more data are needed than just the analog process values. Field devices with HART capability provide this diagnostic data. Pepperl+Fuchs HART Interface Solutions deliver them to your engineering and maintenance stations in the most efficient manner.
HART INTERFACE SOLUTIONS
THE ONLINE CONNECTION TO THE FIELD DEVICE

HART multiplexers provide digital access to the configuration and diagnostic data of your HART field devices without influencing the processing of measured values. The power of HART field devices already installed can be fully utilized to increase the value of your installation. We provide customer-specific transfer interfaces that connect to your installed control systems. HART multiplexers are ideally suited for extension, modernization, and renovation of installations in process automation.

**K-SYSTEM HART Multiplexer**
- Master/slave system for up to 7,936 field devices
- Networking of up to 31 multiplexers via RS485
- Compact design, DIN rail mounting
- Compatible with operating and asset management software (AMS, PDM, FieldCare, PACTware)

**H-System HART Multiplexer**
- Stand-alone multiplexer for up to 992 field devices
- Networking of up to 31 multiplexers via RS485
- Compatible with operating and asset management software (AMS, PDM, FieldCare, PACTware)

**PACTware™ – MANUFACTURER- AND FIELDBUS-INDEPENDENT CONTROL INTERFACE**

Using PACTware, you can configure and parameterize devices and systems in your installation with a single control interface. The integrated FDT (Field Device Tool) interface enables the best possible control concepts to define the interface for the integration of your installation documentation. There are numerous functions available for online monitoring.

- Fieldbus-independent operation of devices and systems
- Fast, efficient integration of devices
- Investment security due to shared use and continued development at PACTware member companies
Regardless of the type or characteristics of the fluids or bulk solids inside your tank, the various level measurement technologies and devices offered by Pepperl+Fuchs will always give you reliable level information.
LEVEL MEASUREMENT – AFFORDABLE, ACCURATE, ADAPTABLE

INDUSTRY-LEADING SOLUTIONS

From the very basic to the most complex, Pepperl+Fuchs can engineer a complete level solution by incorporating our industry-leading selection of interface technology with our unmatched offering of level measurement instruments. Our level technologies include the principles of guided microwave, ultrasonic, vibration limit switch and many more.

LEVEL SENSING FEATURES

- Hazardous area solutions
- Fieldbus compatible
- Multiple process connections

VIBRACON

Measuring Principle:
Frequency Shift – The frequency-of-vibration of the fork is reduced when it comes into contact with the medium being measured. The electronic interface internal to the sensor is used to create an output signal based on this change. The products are available for both liquid and bulk material and with aluminum, plastic and stainless steel housings.

- Process connections and pipe diameters as small as ½" and 1-½”/40 mm respectively
- No calibration; simple commissioning
- Process temperatures as high as 150 °C/300 °F

PULSCON

Measuring Principle:
Guided Radar – A constant voltage transmission pulse is directed down a stainless steel or hastelloy rod or cable and is reflected at the material surface. The level of the medium is determined by the sensor electronics and is based on the total runtime of the pulse.

- Great for fluids and granular materials
- 35 m/115 ft range
- Independent of pressure, temperature and moving surface
- Easy to install and calibrate with display for configuration, tank mapping or signal evaluation

ULTRASONIC

Measuring Principle:
Ultrasonic – Sound pulses are reflected off a wide range of media and the resulting reflection measured for time in order to calculate a distance. This noncontact level measurement technique lends itself for both liquids and solids. The products cover a measurement range up to 7 m/23 ft for granular materials and up to 15 m/49 ft for fluids.

- Density, conductivity and dielectric constant independent
- 32 point linearization option
- Envelope visualization on the local display screen
The ability to combine various components into an efficiently working system comes from choosing the correct elements — like choosing the correct nut/bolt combination. The experienced engineers at Pepperl+Fuchs will support you in choosing the best fieldbus modules to meet your requirements and integrate them into convenient housings.
Each application has its own design requirements. Our Field Junction Boxes for FieldConnex® products as well as our Interface Cabinets will meet your most stringent requirements. A custom-fit solution for your application, Pepperl+Fuchs cabinet engineering reduces engineering costs and allows the fastest possible site installation.

- Ex-approved installation solutions for fieldbus in zones 1/2/21/22 and Div. 1/Div. 2
- Customer-specific solutions

**STAINLESS STEEL ENCLOSURE SS316L**

Our stainless steel enclosures are ideal for use in process industries and corrosive environments

- Electro-polished surface
- Breather/drain
- IP66 and Type 4X ingress protection
- Grounding bolt

**POLYESTER (GRP) ENCLOSURE**

For most aggressive environments our GRP enclosure range is an economic choice.

- IP66 and Type 4X ingress protection
- Breather/drain
- Earth continuity plate
Dangerous sparks in explosion hazardous areas? No problem – if you keep them apart from the explosive environment with pressurized enclosures. Pepperl+Fuchs purge and pressurization systems allow safe operation of standard equipment within a hazardous or corrosive atmosphere.
Pepperl+Fuchs Bebco EPS Purge and Pressurization products offer a safe and economical approach for installing standard electrical equipment in hazardous locations. By creating a safe area inside an enclosure using overpressure technology, general-purpose equipment can be used in hazardous areas. Pepperl+Fuchs Bebco EPS offers a universal solution for use in Zones/Divisions 1 and 2. A wide range of accessories are available to complete the system.

**6000 SERIES / 3000 SERIES**

The 6000 Series purge system features an IP66/Type 4X stainless steel housing that facilitates a user-friendly, menu-driven configuration. This new system can be used worldwide in Division 1 and Zone 1 hazardous areas in safety applications up to SIL2/3. The 3000 series is suitable for Division 2 and Zone 2.

- Enclosure sizes up to 250 ft³ (7.1 m³) with universal certification
- Panel, kit or universal mounting
- Rugged stainless steel design for trouble-free operation suitable for Class I, II, and III, Division 1 and 2/Zone 1/21 and Zone 2

**ENVIRO-LINE**

The Enviro-Line series of environmental pressurization systems protects equipment in enclosures in nonhazardous areas that contain dusty, dirty, and corrosive atmospheres.
The nerve tracts of information society speak TCP/IP. Ethernet spans the globe, connecting billions of information sources to a world-wide network. Can your process visualization system be a part of this Ethernet community? With VisuNet it can!
VisuNet is the world’s first visualization platform for process industries that exclusively use Ethernet TCP/IP network structures and dispense with proprietary communication techniques. VisuNet integrates all the benefits of a modern network infrastructure, either as a remote monitor solution with display, keyboard and mouse up to two kilometers away from the PC in the safe area, or as a full-scale panel PC installed in the hazardous area. VisuNet devices are designed for installation and operation in hazardous areas. They comply with even the toughest requirements in terms of robustness, safety and functionality.

- ATEX, categories II 2G, II 2D
- IEC Ex, Zones 1/21
- US: Class I, Div. 2

**VisuNet RM**

The first Remote Monitor Station based on network technology

- Ethernet network connectivity
- Interfaces: Ethernet, USB, RS232, RS485, TTY, more on request
- Front access

**VisuNet PC**

Panel PC for challenging demands

- Neutral PC platform with front access
- Interfaces: Ethernet, USB, RS232, RS485, TTY
- Pepperl+Fuchs software package for security and recovery

**VisuNet OB Optionbox**

Modular enclosure system for network and power supply components

- Modular concept: power supply, media converter, network components
- Stainless steel housing
- Approvals for hazardous area
Powerful HMI systems (Human Machine Interface) from Pepperl+Fuchs allow optimum control, operation, and monitoring of production processes in the chemical, pharmaceutical, oil and gas industries.
The EXTEC product line offers industrial PC components and visualization equipment used in hazardous areas with a focus on equipment used for the human interface to automation systems. These include intrinsically safe electronic display and control device systems, Ex PC systems, intrinsically safe weighing and dosing terminals and intrinsically safe data collection systems, all for the most difficult requirements.

**TERMEX**

Intrinsically safe operator panels, text and graphics terminals with backlight display for use in chemical, pharmaceutical and petrochemical plants.

- Extended temperature range –20 °C ... +60 °C/–4 °F ... +140 °F
- Control panel mounting, wall or cabinet housing
- PLC and computer interfaces

**VISUEX**

These PC panels are designed for use in hazardous areas and come with an Ethernet network connection with 10” or 12” display including touch screen.

- IS peripheral interfaces for barcode reader systems, keyboard, USB and others
- Increased safety interfaces: Ethernet, RS485/TTY, USB
- Integrated software package for data backup and recovery

**And more ...**

**SCANEX** – Intrinsically safe barcode reader
- Cable scanner
- Radio scanner

**TASTEX** – Intrinsically safe PC keyboards for the Ex zone
- Trackball
- Touchpad

**COMPEX** – Intrinsically safe components and systems for weigh scale systems
Pepperl+Fuchs can provide an easy-to-use instrument that gives greater insight to the process engineer. CorrTran® MV is a device that pays for itself in a short period of time by helping to reduce needless expenditures on corrosion.
CorrTran MV CORROSION MONITORING TRANSMITTER FOR ONLINE DETECTION

CorrTran MV is a 2-wire, multivariable HART Transmitter that evaluates general and localized (pitting) corrosion in real time. The probe is simple to integrate into existing systems. Unlike the traditional coupon method that establishes an average corrosion rate over time, CorrTran MV can monitor corrosion on-line and in real time rather than a historical “after the fact” method that misses the possibility of establishing a process-corrosion correlation.

- Process pressure up to 248 bar/3600 psi
- Customer-specific configuration
- ATEX/US approvals
  - EEx ia II C T4/Division 1

A NEW WAY TO MONITOR CORROSION

Coupons have been used to determine a historical corrosion trend that may extend over a 2–4 month period. Once analyzed, this data is used to determine the detrimental effects of corrosion over time; however, it does not allow corrections to be made as corrosion is occurring. On-line, real-time monitoring with CorrTran MV allows immediate changes to be made to the process as corrosion occurs, thus reducing the effects of corrosion and lowering operating costs. A wide range of probes is available for many different applications and materials.
We pump it out of the earth, we refine it, we use it with highest care and safety: oil. However, we are always in danger of losing some of it. Separator Alarm Systems help to prevent spilling of oil and oil products, thus protecting our environment and our precious drinking water from pollution.
Protecting our environment from contamination by oils and waste water is an urgent requirement. Our Separator Alarm Systems offer a comprehensive series of control modules and sensors for monitoring the liquid level or layer thickness in oil and gasoline separators. This prevents environmental pollution caused by overflow. Due to its modularity and convenient installation features the system can easily be adapted to any separator facility. Dangerous states can be signalled acoustically, visually, by means of potential free relay contacts, or SMS transmission.

**ALARMS SYSTEM LAL-SRW**

The Alarm System offers the connections for two sensors. It provides an integrated acoustic and visual alarm signalling and uses two individual relay contacts for alarm signal transmission.

- Easy installation on DIN rail
- Enhanced safety using alarm repetition
- ATEX approval for Zone 0

**SENSORS**

Pepperl+Fuchs offers different versions for monitoring layer thickness, liquid level or slurry thickness.

- Rugged, reliable design
- Easy installation and maintenance
- ATEX approval for Zone 0

**ALARMS SYSTEM WITH GSM MODEM LAL-GSM**

This alarm system offers an alarm transmission via SMS text message to as many as three mobile phones by integrated GSM and even provides a weekly status report via SMS.

- Connections for three sensors
- Visual alarm
- Powered by 230 V AC, batteries or solar panel 12...30 V DC
For over a half century, Pepperl+Fuchs has provided new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to offer complete individual solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world’s largest process industry companies with the broadest line of proven components for a diverse range of applications.