

# One for all

Pepperl+Fuchs

Universal I/O Technology

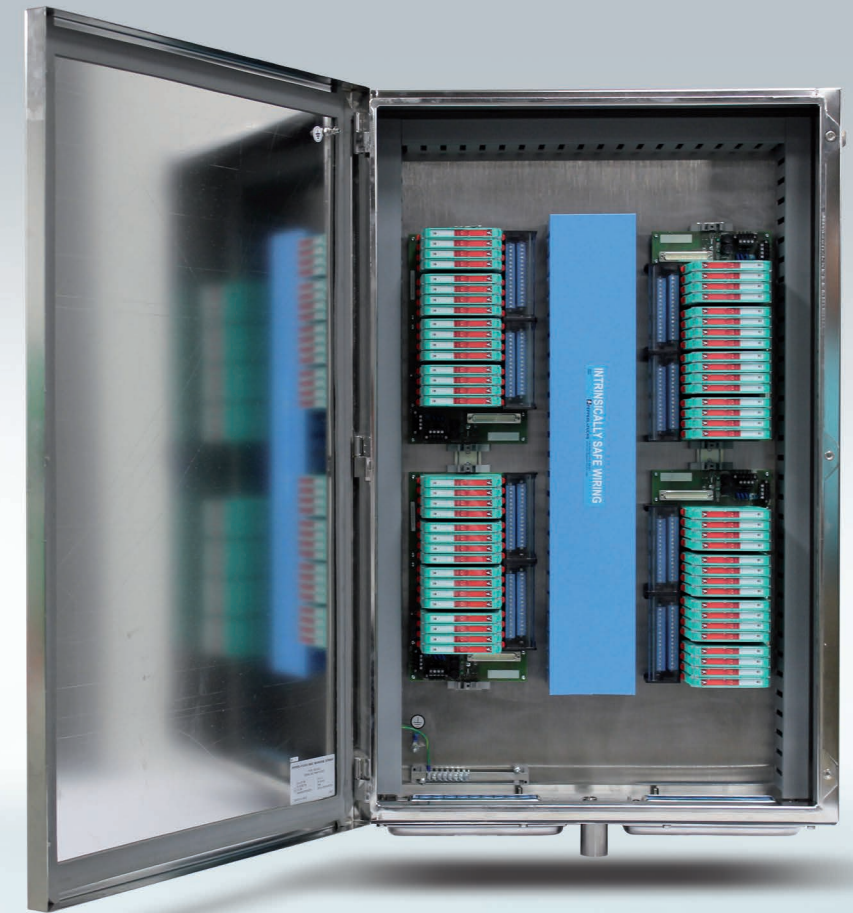


Your automation, our passion.

 **PEPPERL+FUCHS**

# keep it simple!

The idea of replacing multiple traditional I/O modules with only a single, multi-functional I/O module seemed impossible. Or was it? With the combination of Pepperl+Fuchs' intrinsically safe HiC2441 universal barrier and Honeywell's Series C Experion® Process Knowledge System Universal Channel Technology, this has become a reality. Together, these two devices use a state-of-the-art technology that automatically recognizes I/O requirements and adapts by self-adjusting to the correct signal type.



## Best of both worlds: standardization and flexibility

Using universal I/O technology, this new solution provides freedom from single-channel dependency in your process or safety I/Os and control cabinets. As a result, engineering and configuration of the process control infrastructure are drastically simplified, enhancing flexibility in design and implementation. Additional benefits can be seen in a reduction of system footprint, wiring, and spare parts, resulting in installation cost savings up to 33%.

Additional information is available at  
[www.honeywell.pepperl-fuchs.com](http://www.honeywell.pepperl-fuchs.com)

## Easy, quick, and safe installation

Whether you are dealing with a fixed project deadline, last minute changes in system requirements, or simple budget restraint, installation and commissioning can be the most dynamic and challenging part of a project life cycle. With universal I/O technology, users are offered a quick and trouble-free solution with:

- Straightforward implementation with no need for additional hardware or immediate I/O configurations
- Remote access, providing configuration changes in minutes, not days
- Speedy commissioning for reduced schedule risk and early project completion
- Prepackaged solutions for quicker project execution

## Operate with flexibility

Universal I/O technology offers many benefits, including tremendous flexibility and reduced maintenance efforts due to changing operation:

- Continuous changes at the software level without hardware requirements
- On-progress migration without unnecessary downtime or production loss
- Reduces maintenance personnel during repairs
- Eliminates need for conventional marshalling approaches, saving marshalling cabinet space, inter-panel wiring, and power requirements.
- Field wiring termination directly at universal IO modules

## Plug-and-play: universal cabinet solution

Pepperl+Fuchs has designed a variety of universal barrier cabinets that link the respective universal I/O solution from Honeywell with 64, 32, and 16 I/O. Each solution provides:

- Certification for use in hazardous areas
- Fully equipped with universal termination boards to accommodate the designated number of I/Os
- Cable ducts for system and intrinsically safe field wiring with Rextec sealing system.

As a whole, this complete package provides a simple, prepackaged plug-and-play solution that ensures universal design, fewer errors, and timely acceptance testing. Simply mount the cabinet, connect the system cable and field wiring, and you are ready to go.

The universal barrier cabinet can be supplied to Honeywell from one of our Solution Engineering Centers (SEC) around the world.

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## Process Interfaces

- Intrinsically safe barriers
- Signal conditioners
- Fieldbus infrastructure
- Remote I/O systems
- HART interface solutions
- Wireless solutions
- Level measurement
- Purge and pressurization systems
- Industrial monitors and HMI solutions
- Explosion protection equipment
- Solutions with process interfaces

## Industrial Sensors

- Proximity sensors
- Photoelectric sensors
- Industrial vision
- Ultrasonic sensors
- Rotary encoders
- Positioning systems
- Inclination and acceleration sensors
- AS-Interface
- Identification systems
- Logic control units