



PROFIBUS IN THE HAZARDOUS AREA

FIBER OPTIC COUPLER AND REPEATER FOL 7250



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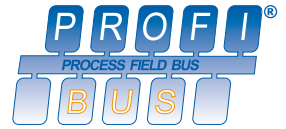
The PROFIBUS Fiber Optic Coupler and Repeater FOL 7250 converts PROFIBUS into fiber optic signals. Thus, great distances can be bridged at high transmission rates (1,000 m at 1.5 Mbit/s) while complete galvanic isolation between field and control room is maintained.

The FOL 7250 can be used as a point-to-point coupler or in a redundant ring. It automatically adapts to the PROFIBUS transmission rate, detects line faults and performs an automatic redundancy switch-over.

The FOL 7250 can be mounted in a Zone 1 hazardous area. In combination with the congenious PROFIBUS Fiber Optic Coupler for assembly in Zone 2 or non-hazardous area, the FOL 7250 is suitable for a PROFIBUS connection of a Remote I/O System.



PROFIBUS FIBER OPTIC COUPLER AND REPEATER FOL 7250 – THE SOLUTION FOR NOISE IMMUNITY IN A HAZARDOUS AREA



ELECTRONIC INSERT

- Electronic insert encapsulated for rough environment

Ex-e TERMINALS

- Terminals for power supply, PROFIBUS and diagnostics contact

FIBER OPTIC CABLE

- Single/redundant bridging of long distances



DIAGNOSTICS LEDs

FUNCTION SELECTOR SWITCH

- Single/redundant operation
- Optical ring
- RS485 monitoring
- Fiber optic monitoring
- Bus termination on/off

Ex-e TERMINALS

- for measuring optical power of ch2, ch3

DIAGNOSTICS CONTACT

- Ex-e contact indicates transmission error

POWER SUPPLY

- Ex-e connectors for power supply

PROFIBUS

- Ex-e connection to the PROFIBUS devices in Zone 1

HOUSING TYPES

- DIN-rail module



- Plastic housing



- Stainless steel housing



YOUR BENEFITS

- For any PROFIBUS interface, e.g. Remote I/O, Valves, Drives, Inverters, Controllers etc.
- Full galvanic isolation between field and control room
- Very high noise immunity since it is insusceptible to electromagnetic fields
- No sparks capable of ignition or hot surfaces due to low light energy
- Automatic baud rate detection
- Star, ring or line topology selectable
- Can be used as a point-to-point coupler and in a redundant ring
- Performs an automatic redundancy switchover
- Bridges long distances while maintaining high transmission rates
- LED diagnostics of transmission line and receipt line
- Diagnostic relay contact indicates transmission error
- Test jacks for measuring the signal level
- Bus termination can be activated by a switch

BRIDGES LONG DISTANCES WHILE MAINTAINING HIGH DATA TRANSMISSION



DCS/PLC

POINT TO POINT CONNECTION

RING TOPOLOGY



Zone 2



FOL 7250



FB Remote I/O



Zone 1



FOL 7250



FOL 7250

Sensors/actuators
4 mA ... 20 mA/
HART

Sensors/actuators
4 mA ... 20 mA/
HART

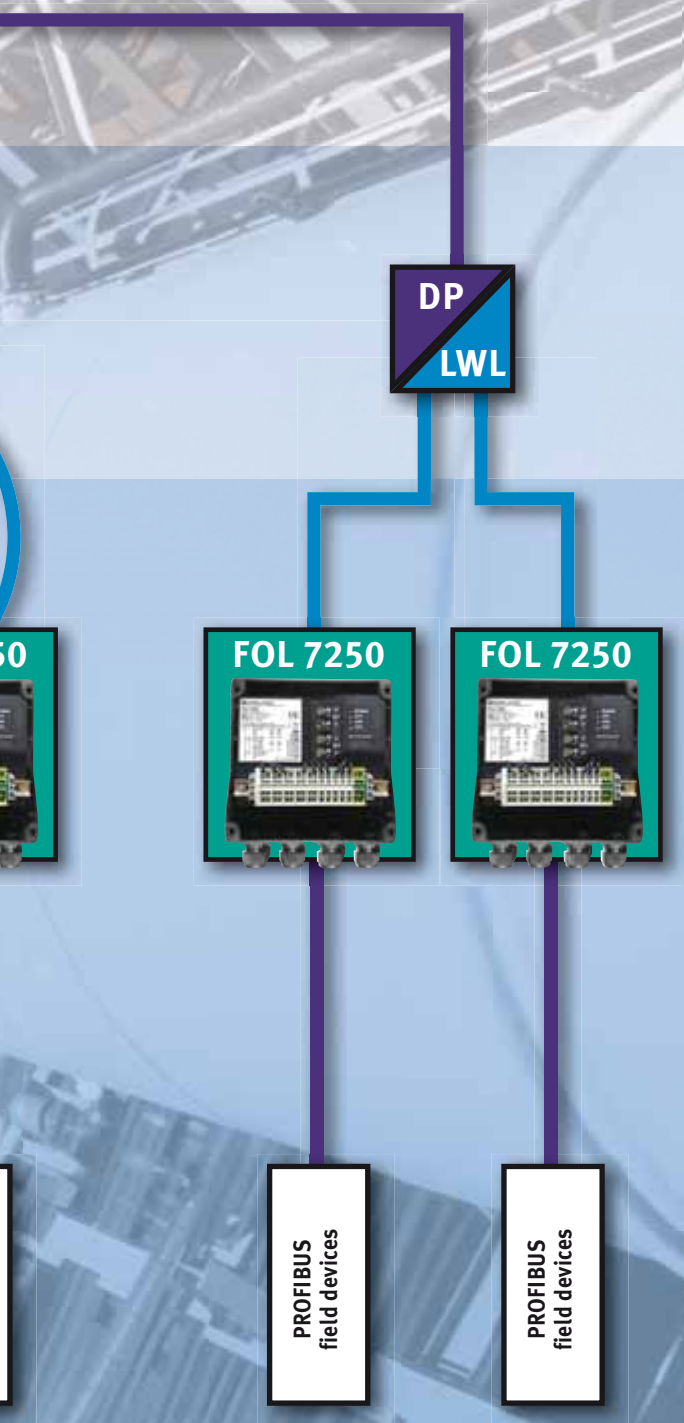
Sensors/actuators
4 mA ... 20 mA/
HART

PROFIBUS
field devices

PROFIBUS
field devices

ON RATES

STAR TOPOLOGY



PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has been continually providing 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 individually offer complete 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.

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