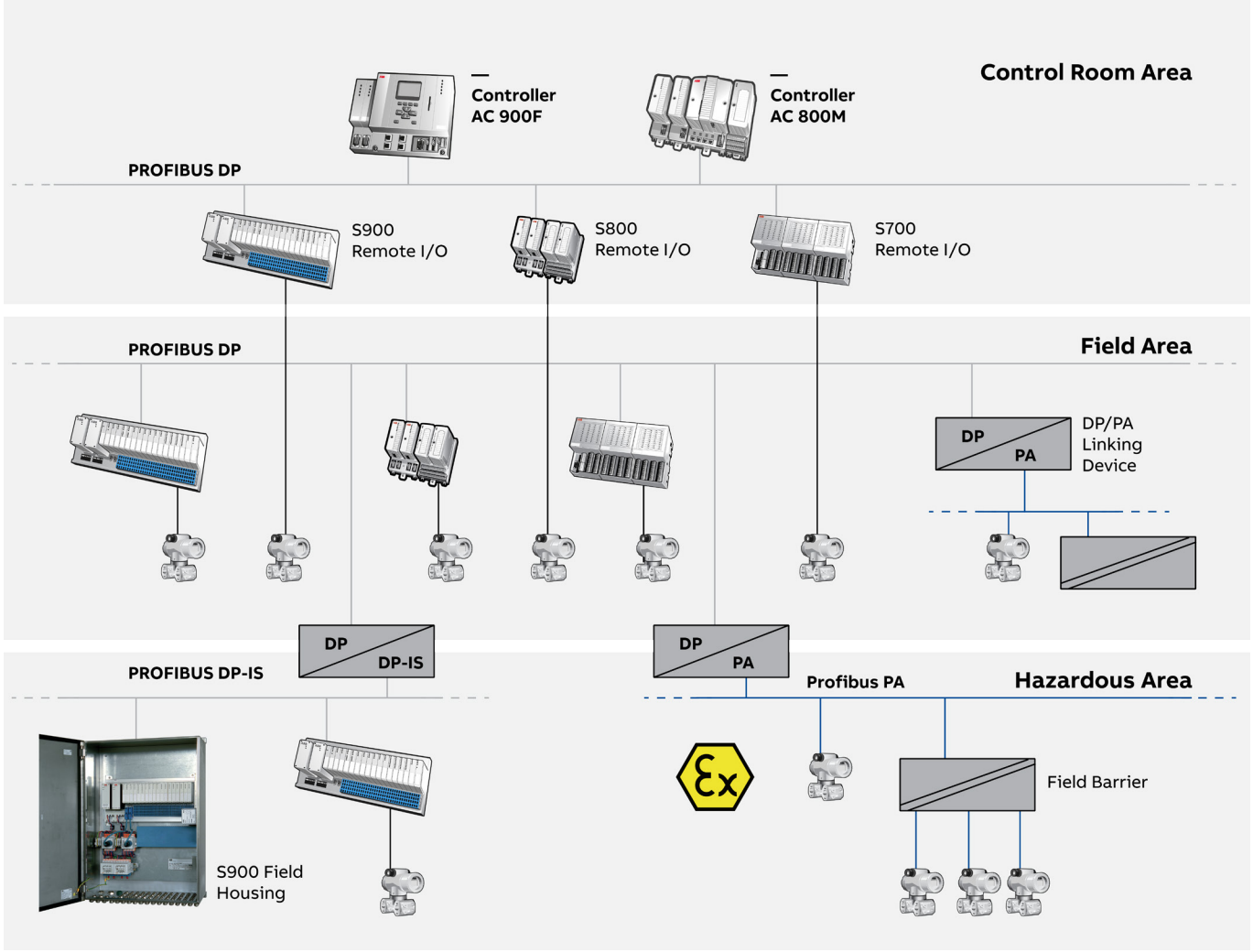
S900 Remote I/O System

Intrinsic safety in the field





Advantages at a glance

- Designed for intrinsically safe applications in hazardous areas
- Integrated barrier function with hot pluggable modules and automatic slot addressing
- High availability due to redundancy in the power supply as well as in communication
- Minimum maintenance effort as a result of hot swap capability in rated hazardous areas, self-diagnostics, remote engineering capabilities
- Simplified project handling with pre-installed, fully certified extended safety field housings
- Easy project planning and efficient engineering

Customer benefits

- Installation close to production cell saves cabling cost
- Responsibility for explosion protection taken over by vendor (pre-mounted for installation in field housings including ATEX certification for Zone 1)
- No plant-specific documentation and engineering required
- Simplified Ex-acceptance test procedure for plants used in hazardous areas (pre-mounted field house including ATEX certification Zone 1)
- Straightforward preparation of offers

	NAMUR inputs	Binary 48 V	Binary Relay	Analog Unipolar	Temperature RTD	Temperature T/C	HART	Intrinsic safety
I/O Features S900								
Digital I/O modules								
DX910S,B,N*	☑							S,B
Digital output modules								
DO910S,B,N*								S,B
DO930N		☑						
Pulse input modules								
DP910S,B,N*			☑					S,B
Analog input modules								
AI910S,B,N*				☑				S,B
AI930S,B,N*				☑			☑	S,B
AI931S,B,N*				☑			☑	S,B
AI950S,B,N*					☑	☑		S,B
Analog output modules								
AO910S,B,N*				☑				S,B
AO920S,B,N*				☑				S,B
AO930S,B,N*				☑			☑	S,B

* For details about S900 I/O please refer to the S900 catalog, document number 3BDD010420.

The S900 Remote I/O System

01. Communication interface CI920AS/B/N
- Fieldbus protocol PROFIBUS DP V1
- HART over PROFIBUS
- Line or media redundancy via two coupling modules
- Electrical isolation between field bus, power
- Diagnosis, configuration and parameterization via PROFIBUS

02. Digital I/O modules DX910S/B/N
- Input for dry contacts or proximity switches (NAMUR)
- Output for low power intrinsically safe valves
- Short and break detection
- Electrical isolation between input / bus and input / power
- Common return for all inputs / outputs
- Configurable as a mixture of inputs and outputs
- 8 I/O channel

03. Solenoid driver DO910S/B/N
- Output for intrinsically safe valves or alarms
- Integrated driving power
- Short and break detection
- Electrical isolation between output / bus and output / power
- Electrical isolation channel to channel
- 4 channels

04. Relay output DO930N
- Relay output for higher switching power
- Output configurable as NO or NC contact
- Electrical isolation between output / bus and output / power
- Electrical isolation channel to channel
- Configurable as 4 x changeover contact
- Configurable as 6 x NO contact

05. Frequency input DP910S/B/N
- Frequency input for dry contacts or proximity switches
- Short and break detection
- Electrical isolation between input / bus and input / power
- Frequency measurement or counting applications
- 2 Function blocks
- Reset via fieldbus or control input
- Status outputs / Direction recognition

06. Analog input AI910S/B/N
- Power supply for 4...20 mA loop powered 2-wire transmitters
- Short and break detection
- Electrical isolation between input / bus and input / power
- Common return for all inputs
- 4 channels

01 02 03 04 05 06

