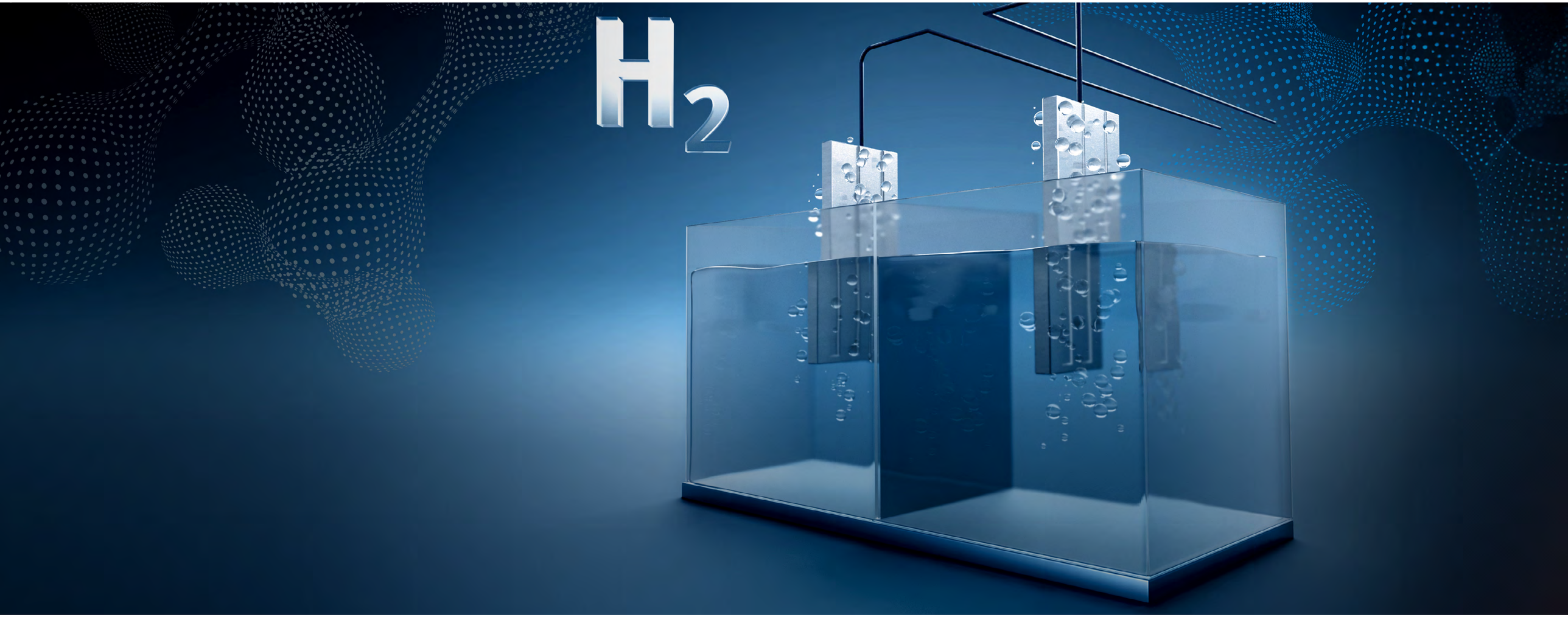
Automation solutions for electrolyzers in hydrogen production

From the control level to the field level: Festo is your supplier for the entire product portfolio.
Take a look around — you will find interesting products for your hydrogen production automation.

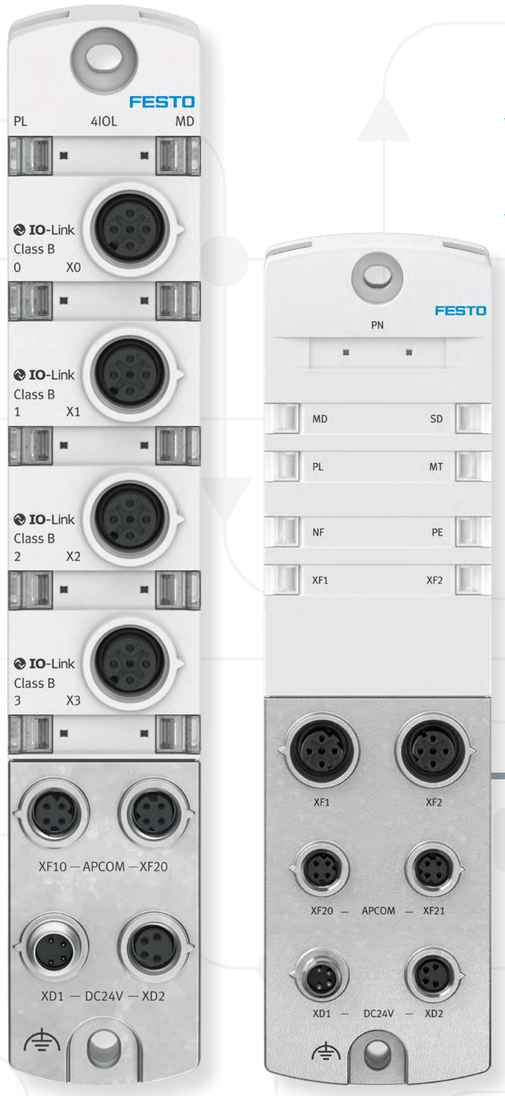


© Copyright 2024, Festo SE & Co.KG – Errors and omissions excepted

Remote I/O system CPX-AP-I

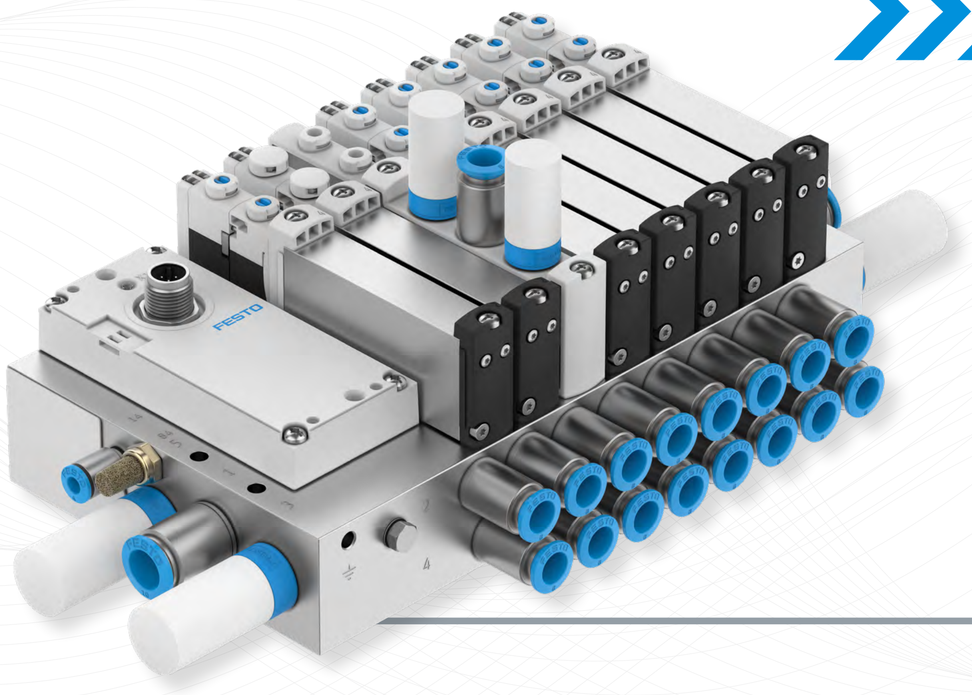
CPX-AP-I is a flexible, decentralised, compact and lightweight Remote I/O system with high degree of protection IP65/IP67. CPX-AP-I consists of a bus interface and at least one other module.

→ **Remote I/O system CPX-AP-I**



- Networking of up to 80 modules
- Easy connection to various controllers: PROFINET, EtherCAT, EtherNet/IP, and ModbusTCP
- IO-Link master for seamless integration of any IO-Link devices
- Digital and analog input/output modules available

Valve terminal VTUG-EX



- Flexible and compact valve terminal with interational certificates: IEC-Ex, UL HazLoc, CCC
- Optional: suitable for applications in low temperatures
- With multi-pin plug connection and fieldbus interface
- Flexible multi-pin plug connection using Sub-D or ribbon cable
- Sturdy and durable metal components
  – Valves
  – Manifold rails
- Fast troubleshooting thanks to LED indicator

Service unit MS-EM1FR

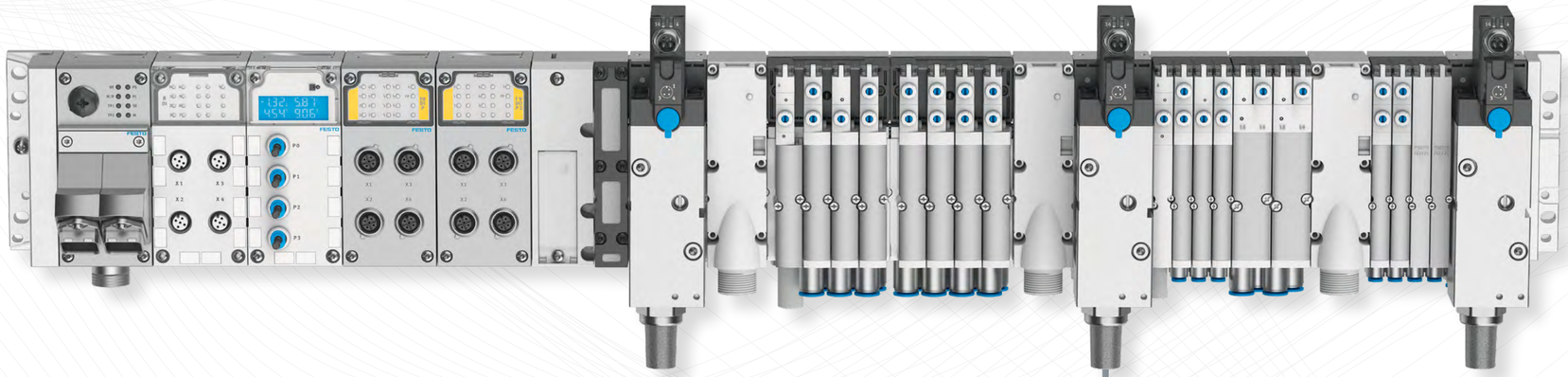
→ Service unit MS-EM1FR



- Holistic concept for your compressed air preparation
- Combination of on/off valve and filter regulator
- With manual or fully automatic condensate drain
- For filtered and unlubricated compressed air supply
- Supply pressure can be switched on or off
- Output pressure is continuously adjustable within the pressure regulation range

Combination of remote I/O and valve terminal CPX/MPA

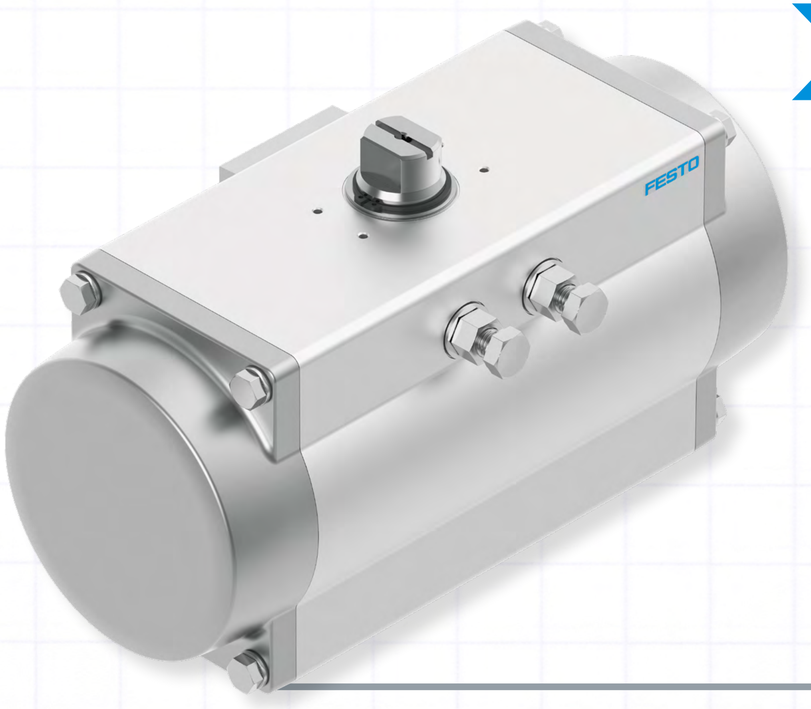
→ **Valve terminal MPAL-VI**



- Universally applicable valve terminal
- Remote I/O and solenoid valves are on one platform
- Individually configurable
- Integrated PROFIsafe module for easy implementation of multiple electrical voltage zones
- Variants in accordance with EU explosion protection directive (ATEX)
- Integration of VPPM proportional valves for controlling regulating valves
- Possible to control different modules/ zones of the electrolyser with one valve terminal
- suitable for high and low demand applications in SIL relevant applications

Quarter turn actuator DFPD

→ Quarter turn actuator DFPD



The DFPD series features a rack and pinion combination with a constant torque characteristic across the entire swivel range.

The quarter turn actuators DFPD are perfect for automating your butterfly valves, ball valves and dampers.

The quarter turn actuators meet the requirements of the ATEX directive and are SIL-compliant. This ensures maximum safety for use in potentially explosive environments and safety-critical applications.

Positioner CMSH

→ Positioner CMSH



- Intelligent, digital electropneumatic positioner with HART communication
- Fast and precise position control of single- and double-acting pneumatic rotary and linear drives
- 2-wire technology
- Explosion protection for gas and dust for zone 1/21

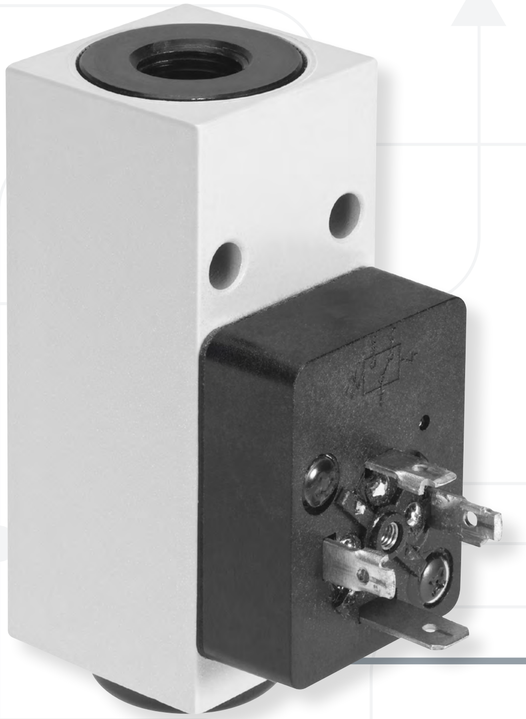
Limit switch box SRBC



- The digital sensor box SRBC is quick at detecting the actual position of quarter turn actuators. Its corrosion-resistant design is perfect for use in harsh ambient conditions and in outdoor applications.
- Variants available acc. to EU Explosion Protection Directive (ATEX) and Safety Integrity Level up to SIL 2

Pressure switch PEV

→ **Pressure switch PEV, VPEV**



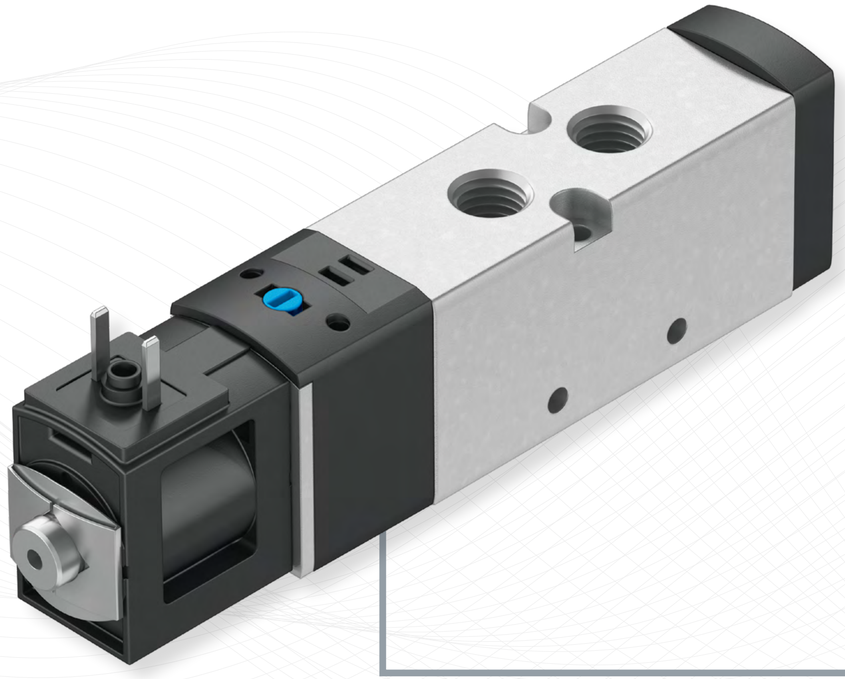
- Adjustable pressure indicator or vacuum indicator in sturdy aluminium cast housing with plug to EN 175301-803 or EN 60947-5-2
- Mechanical pressure and vacuum switch
- Certification: CCC, c UL us – Recognized (OL), RCM
- Suitable for the use in Ex Zone 1

Pressure sensor SPAU



- The pressure sensor SPAU has a uniquely flexible connection. Whether for pressure measuring, pressure monitoring or pressure sensing, all pressure values are always under control at a glance. Remote maintenance and parameterisation as well as simple sensor replication are possible in IO-Link® mode.
- Maximum versatility thanks to a wide range of pneumatic adaptations and switchable electrical outputs

Solenoid valve VUVS



- Universal valve, sturdy and durable
- Low cost with no performance limitations
- Can be used as individual valves or manifold valves VTUS
- Protection class Ex m, Ex i and NEC 500
- International certificate, IEC-Ex, UL HazLoc, CCC, Kosha, Inmetro and others

Solenoid valve VOFC



- Indirectly controlled pilot valve for particularly demanding operating conditions. Redundant version for safety systems up to SIL3.
- Suitable for process automation in the chemical and petrochemical industries
- Protection class Ex m, Ex i and NEC 500
- International certificate, IEC-Ex, UL HazLoc, CCC, Kosha, Inmetro and others



© Copyright 2024, Festo SE & Co.KG – Errors and omissions excepted