



**MORE THAN SENSORS
AND AUTOMATION**



Our highlights and new products

JUMO as the Conductor of Modern Industrial Automation

MORE THAN TECHNOLOGY

Perfectly tailored solutions
for your success



An orchestra of possibilities

Innovative. Digital. Efficient.

Sensors that can be combined with flexibility for a wide range of measurands, powerful automation systems, and innovative evaluation tools: industrial automation can be so easy. You can choose the technologies that are perfectly suited for you from a wide range of products and systems. JUMO Engineering enables you to find precise solutions for even the most complex requirements. Additional services are also available upon request. This diversity opens up unique opportunities and untapped potential on the market. You benefit from:

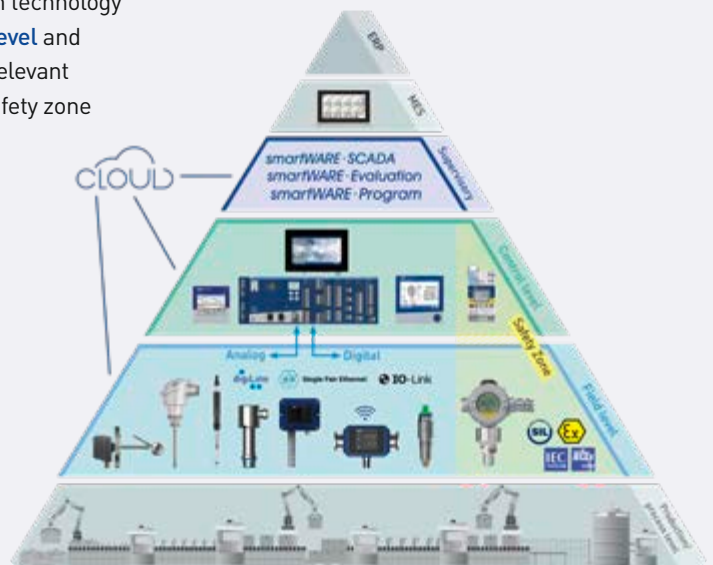
- Solutions perfectly tailored to the needs of your industry
- Professional support for the digitization of your plants
- Efficiency enhancements in your process landscape
- Less day-to-day business

Precise and efficient complete solutions

From the sensor to the cloud

As a leading system and solution provider of sensor and automation technology we provide you with expert advice from the **field to the monitoring level** and effectively combine the stages of the automation pyramid that are relevant for the production and process industry. The requirements of the safety zone are also taken into account. What you get from us:

- Intelligent, network-capable sensors
- Scalable automation systems
- User-friendly software
- Cutting-edge communication via SPE/IO-Link
- Individual engineering solutions
- Extensive services

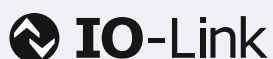


Digital sensor communication

IO-Link, SPE, and JUMO digiLine

The switch from analog to digital sensor technology offers enormous opportunities, strengthens competitiveness, and is considered a **key element of smart manufacturing**. After all, it enables seamless networking and data integration at all process levels. It also increases the quantity and quality of the plant output. IO-Link, SPE, or JUMO digiLine: we will find the right technology mix for you and thereby offer you communication that is not only smart, but also future-oriented. You benefit from:

- Interference-free data transmission in real time
- Convenient startup and calibration
- Reduction of service and maintenance costs
- An increase in process efficiency
- Versatile and flexible application possibilities
- A solid foundation for Industry 4.0 applications



Single Pair Ethernet
System Alliance



A perfect example of a modern end-to-end system

The JUMO brewing plant

We also happily take unconventional paths to develop tailor-made solutions for specific industries. A prime example is our brewing plant – an **overall solution that automates the entire brewing process** from mashing to filling. Advanced sensor technology, smart automation technology, and intuitive software solutions enable precise control of all process parameters, which results in consistently high product quality. The most important features in a nutshell:

- Fully automated system in compact skid design
- Implemented exclusively with JUMO products
- Integrated Cleaning in Place function
- Automation via analog and digital technologies
- Use of Single Pair Ethernet, IO-Link, and JUMO digiLine



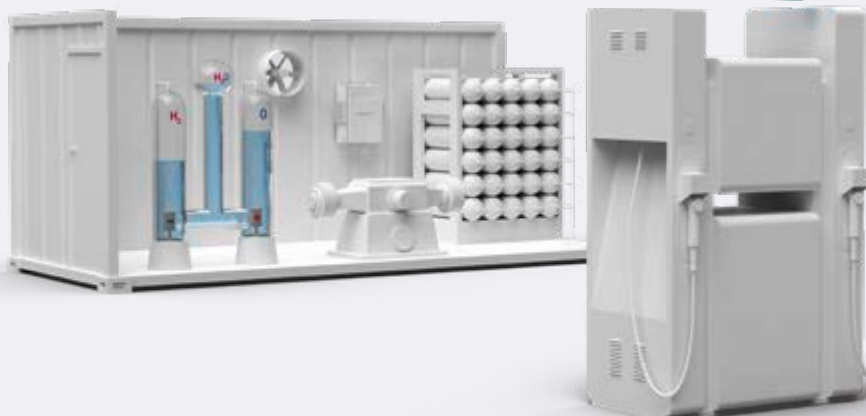
H2 ready

Tested according to HGV 3.1

In a dynamic industry such as hydrogen technology keeping up with the latest norms and standards is crucial. Our sensors have been extensively tested in accordance with the current **HGV 3.1 standard for hydrogen refueling systems**. The tests included hydrostatic strength and corrosion resistance, insulation resistance, resistance to stress corrosion, and atmospheric exposure. H2 ready at a glance:

- Sensor and automation technology for electrolyzers, fuel cells, hydrogen refueling stations, and H2 storage
- Pressure and temperature sensor technology specifically for hydrogen applications
- Material suitability for direct hydrogen contact

H₂





Type 703051, 703052, 703053, 703054

JUMO meroTRON 104/108/116

Modular one-channel/two-channel controllers with PLC function

- Customizable device menu for user-friendly integration into a wide range of applications
- PLC function with programming via ST code including real-time clock as well as with direct access to operation and display
- Planning security through scalable hardware with Plug and Play
- Communication via USB, PROFINET, Ethernet, and RS485 (Modbus master/slave TCP/RTU)
- Calibration of analog inputs according to CQI-9 and AMS2750
- Large variety as well as large number of analog and digital inputs and outputs



Type 406051

JUMO flowTRANS US W02

Ultrasonic flowmeter

- **NEW:** now with pressure measurement cell
- Reduced maintenance costs due to low-wear design without moving parts
- High degree of process reliability through precise measurement
- Metal-free design for use in corrosive media and environments
- Simultaneous measurement of up to 3 measurands (flow, temperature, pressure) at 1 measuring point
- Simple, convenient configuration and operation via Bluetooth using the JUMO smartCONNECT app
- Time and cost savings during configuration as well as the integration in plants and sensor networks through IO-Link
- Connection also possible via analog interfaces and/or pulse output



Type 406065

JUMO flowTRANS MAG H20

Electromagnetic flowmeter

- Measurement of small quantities to avoid overdosing
- Long operating life for CIP processes
- More compact design of skids and frame-mounted equipment from OEMs
- Reduction of plant downtimes
- Direct connection to the cloud through Single Pair Ethernet



Type 405056

JUMO DELOS S02

Precision pressure transmitter with switching contacts and display

- Pressure transmitter for liquid and gaseous media
- High degree of process reliability due to maximum accuracy and long-term stability
- Easy configuration via Bluetooth/smartphone app or IO-Link
- Ethernet-based version available
- Direct cloud connection possible



Type 907042

JUMO hydroTRANS S20

Humidity and temperature transmitter with optional CO₂ module for HVAC applications

- Precise monitoring of the environmental influences
- Variants for different installation locations
- Low maintenance requirements, easy filter cap replacement
- Easy installation via established interfaces, minimal installation effort



Type 705004

JUMO variTRON 500 touch

Touch panel with integrated central processing unit for the automation system

- Touch panel and central processing unit in 1 device
- Application creation with CODESYS V3.5 and with Node-RED
- Creation of clear process and plant visualizations as well as user interfaces
- Full connectivity to systems and components thanks to support for numerous fieldbus systems (such as PROFINET IO-Controller and EtherCAT master) as well as modern communication protocols like OPC UA
- Reliable control technology with independent PID controllers including autotuning function



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