



More than **sensors + automation**



Innovations 2017





 **IO-Link**



Types 902915, 402058

JUMO dTRANS T1000 and JUMO dTRANS p35

IO-Link sensors for temperature and pressure measurement

- Optimization of the production process through communication down to the lowest field level
- Reduction of mounting and startup times
- Increase of plant efficiency due to maximum transparency down to the sensor level
- Reduction of maintenance and service costs while plant availability increases at the same time
- High degree of process reliability due to long operating life and great accuracy
- Flexible use through compact design type and a variety of process connections



Type 906121

JUMO platinum-chip temperature sensor with connection wires

According to DIN EN 60751, type EG

- With gold-plated nickel wires
- Especially resistant to environmental influences
- For universal use
- Temperature range -70 to +500 °C
- Suitable for all common processing methods



Type 608530

JUMO dicoTEMP 800

Dial thermometer with microswitch

- Universal device with actual value display for temperature measurement, control, and monitoring
- Simple setpoint value adjustment via front pane
- Independent regulation without additional energy supply
- Excellent process reliability through highly-accurate measuring system
- Flexible use through low mounting depth



digiLine

Types 202630, 202631,
202634, 202636



JUMO tecLine Cl_2 , TC, ClO_2 , and O_3 , H_2O_2 , and PAA

New sensors for acquiring water disinfection measurands

- Membrane-covered amperometric sensors for measuring the different disinfection measurands such as chlorine, total chlorine, ozone, hydrogen peroxide, and peracetic acid in water
- Sensors compatible with the JUMO mTRON T automation system and the JUMO digiLine system
- Fail-safe digital data transfer for optimal process monitoring
- Modular system: for both individual measuring points and for setting up sensor networks
- Easy management of the sensor data with JUMO DSM (Digital Sensor Management)



digiLine

Type 202637



JUMO tecLine Br

New sensors for online measurement of bromine

- Measuring the concentration of bromine (e.g. in drinking/ swimming pool/service/process/cooling water)
- Reducing the maintenance effort through simple calibration
- High degree of measuring accuracy through integrated temperature compensation
- Can be integrated into existing processes as the sensors are available in analog as well as digital version
- Sensor compatibility with the JUMO mTRON T automation system and the JUMO digiLine system



Type 202580

JUMO AQUIS touch P

Modular multichannel measuring device for liquid analysis with integrated controller and paperless recorder

- Interface for the PROFINET world which provides access to one of the most important fieldbuses in the industry
- Secure and quick data exchange in real-time communication
- Parallel use of PROFINET communication and Ethernet applications
- DNV-GL approval for easy deployment in the shipbuilding industry
- Setup program with configuration tool for extended data exchange



HART
COMMUNICATION PROTOCOL



Type 707080

JUMO dTRANS T07 series

Two-channel temperature transmitter with HART®/Ex/SIL

- Two universal measurement inputs (RTD, TC, Ω , mV)
- High degree of accuracy as of 0.1 K with Pt100 sensor
- Output 4 to 20 mA (single channel, loop powered)
- Different housing versions: B-head or DIN rail
- HART® 7 protocol with extension for "secure HART"
- SIL 2/3 – hardware/software – according to IEC 61508:2010
- Reliable measurement mode through sensor monitoring and device hardware error detection
- Optional plug-on display for B-head version



EtherCAT®

Types 709061, 709062, 709063

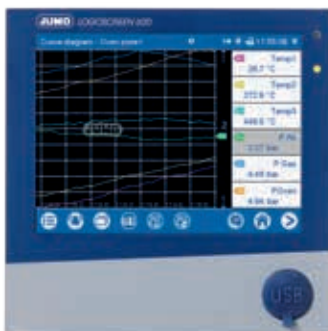
JUMO TYA 200 series

Thyristor power controller series with EtherCAT connection

- Easy startup due to direct configuration of the thyristor power controller through EtherCAT without additional setup software
- Easier device exchange as the configuration is directly transferred from the control to the new device
- Reduction in service and maintenance costs
- Reduction of costs through dual energy management
- Easy operation due to a plain text display



FDA
21 CFR Part 11



Type 706520

JUMO LOGOSCREEN 600

Paperless recorder with innovative operating concept

- Secure data recording and processing by TÜV approved manipulation detection
- High process reliability – FDA compliant data recording according to 21 CFR Part 11
- Powerful – large data storage (1 GB), Ethernet, and TFT VGA touchscreen
- Online visualization: integrated web browser with individual process screen display
- Always up-to-date: process values displayed on smartphone and tablet via app
- High level of interface flexibility via Modbus master function



Type 409602

JUMO flowTRANS DP R01/R02

Flow measurement according to the differential pressure principle with orifice plate

- Measurement method according to ISO 5167 which is standardized across the globe
- Long service life due to robust design without moving parts
- Adaptable to many applications
- Forms a measuring system with the differential pressure transmitter JUMO dTRANS p02/p20 DELTA
- Directly applicable in many liquids, gases, and steams
- Pipe diameter from DN 10 (3/8") to DN 1000 (40")
- Medium temperatures from -200 bis +1000 °C
- Pressures up to 420 bar



Type 406040

JUMO PINOS L01

Calorimetric flow sensor

- Available as analog or switching output
- Switching point is adjustable on-site
- Easily accessible configuration interface through standard micro USB connector
- Variable installation position of the sensor (can be rotated 360°) regardless of the flow direction
- Maximum process reliability ensured by different fittings (stainless steel or plastic) and versions (nominal widths from DN 20 to DN 50)
- Simple operation and parameterization



JUMO Engineering

Innovative system solutions which specific expertise

- Feasibility analysis
- Creating a technical concept including product requirements/ specification sheet
- Complete project planning and documentation
- Project planning including PLC programming, visualization, network technology, etc.
- Continuous project management
- On-site startup
- Training and support



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