



More than **sensors + automation**



Innovations 2011





Type 202823

JUMO pneumatic retractable assembly

For pH electrodes

- Automatic sensor cleaning outside the process
- To reduce the amount of maintenance for pH electrodes
- Suitable for all commercial sensors with EL = 225 mm and Pg-13.5 screw-connection
- Sturdy design
- Increase of the sensor service life
- Move-in lock with missing sensor
- Simple installation
- Hygienic design



Type 202924

JUMO tecLine CR

Conductive conductivity measuring cell

- For pure and ultra-pure water applications
- Cell constant $K = 0.1$ and $K = 0.01$
- 2-electrode principle (Kohlrausch)
- For measuring ranges from $0.05 \mu\text{S}/\text{cm}$ to $500 \mu\text{S}/\text{cm}$
- Suitable for use with smaller pipe diameters and/or lower sample volumes
- Use of FDA-listed materials
- Sensor design according to EHEDG and ASTM and European Pharmacopoeia (Ph. Eur.)
- EHEDG approved PEKA process connections (Clamp, VARIVENT®, Aseptic, Orbital weld-in sleeve)



Type 401011

JUMO MIDAS S06

Pressure transmitters for the low-pressure range

- Measuring range from 100 mbar
- Suitable for measuring aggressive liquids
- High process reliability due to a welded measuring system without seals
- 60 % faster device installation with QUIKON quick-release technology
- Linearity better than 0.3 %



Type 401008

JUMO MIDAS SR

Pressure transmitters for railway applications

- Fulfills the requirements of the following standards:
 - DIN EN 50155
 - DIN EN 61373
 - DIN EN 50121-3-2
 - DIN CEN/TS 45545-2
- High process reliability due to a welded measuring system without seals
- Linearity better than 0.25 %
- Very good vibration and impact resistance



Type 902930

JUMO Wtrans Ex

RTD temperature probe with wireless measured value transmission for explosion endangered area

- Operating distance up to 300 m in the open air
- Wireless temperature measurement on moving and rotating measuring points
- Insertion probes with ATEX approval for an operating temperature range of $-30\text{ °C} \dots +260\text{ °C}$
- Insertion probes for an ambient temperature up to $+85\text{ °C}$
- Wireless receiver with analog and relay outputs as well as RS 485 interface



Type 902940

JUMO DELOS T

Electronic temperature switch with display and analog output

- Multifunctional applications: Measuring, converting, displaying, switching
- Local, brilliant LC display, display can be mirror-imaged by 180 ° , changing color from yellow to red in the event of an error
- Configuration via rev transmitter or setup program
- Connection via M12 plug-type connector
- Protection class IP67
- Case and protection fitting made of stainless steel 1.4435
- EHEDG approved JUMO-PEKA process connections (Clamp, VARIVENT®, Aseptic)
- Low space requirements and installation efforts



Type 604100

JUMO frostTHERM-AT/-DR

Frost protection thermostat

- Push-In® connection technology (Reducing installation time up to 50%)
- Control range $-10\text{ °C} \dots +15\text{ °C}$
- Protection class IP40 or IP65
- Designed as surface-mounting and DIN-rail thermostat
- Individual design of the case lids
- Probe length: 1800 mm with cartridge probe, 3000 mm, 6000 mm and 12000 mm



Type 202551, 202552, 202553

JUMO dTRANS pH/CR/AS 02

Compact transmitters-/control series for liquid analysis

- Large graphic LC display with background lighting
- Easy, multilingual operation with plain text
- Transmitter, controller, indicator and data logger in one device
- High-quality controller functions (pulse length and pulse frequency controller programmable with P-, PI-, PD- and PID-behaviour, 3-stage modulating controller function)
- Modbus or PROFIBUS-DP interface
- PC setup program for device parameterisation and data analysis
- Extremely compact design: Front-panel device only $96\text{ x }48\text{ x }90\text{ mm}$ (W x H x D) in protection class IP65



Type 701150

JUMO STB/STW

Safety temperature limiters and monitors

- 1oo2D structure for a high degree of process safety and reliability
- Approvals for DIN EN 14597, SIL, PL (Performance Level), UL, GL
- LC display with background lighting and plain text display for easy operation
- 2-channel design with diagnosis channel for maximum reliability
- Freely configurable



Type 709061, 709062

JUMO TYA 200

Single-phase thyristor power units or three-phase thyristor power units in three-phase economy circuit

- Brilliant display with plain text display
- "Teach-in" function for part-load failure detection
- Dual energy management for a uniform current load
- Integrated safety system with rotary field and wiring fault detection
- Modbus-RS485/422 or PROFIBUS-DP interface
- With analog output, e.g. actual value output
- Current range 20 ... 250 A



Type 701170

JUMO TB/TW 08

Temperature limiters and monitors according to DIN EN 14597

- Freely configurable as TB or TW
- 17 linearizations can be set
- High process reliability due to internal and external unlocking key
- With two relay outputs as limit value alarm and pre-alarm
- Setup program for configuration and archiving via PC
- With optional analog output that can be used as actual value output
- Large voltage supply range from AC 110 ... 240V +10% / -15% and AC/DC 20 ... 30V, 48 ... 63Hz



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JUMO services & support – so that it all comes together!

INFORMATION & TRAINING



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For competent support right across our product portfolio, our customers have recourse at any time to the efficient sales network we maintain on all five continents. Whether you seek advice, a selection of products, engineering or making optimum use of our products, there is always a team of competent JUMO colleagues somewhere nearby, ready to answer your questions. You can count on us after commissioning, as well. You will get a fast response from our telephone support hotline. If an on-site fault has to be eliminated, our express repair service and our 24-hour spare part service are at your disposal. That is real security.

MAINTENANCE & CALIBRATION



Our maintenance service helps you to maintain optimum system and equipment availability. In this way you prevent failure and downtime. We will work out a far-sighted maintenance concept together with your company officers, and will willingly prepare all the requisite reports, documentation and protocols. Because we know how important precise measurement and control results are for your processes, we naturally also undertake the professional calibration of your JUMO instruments on site, at your company premises. We then record the result in a calibration certificate, as defined by EN 10204.



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