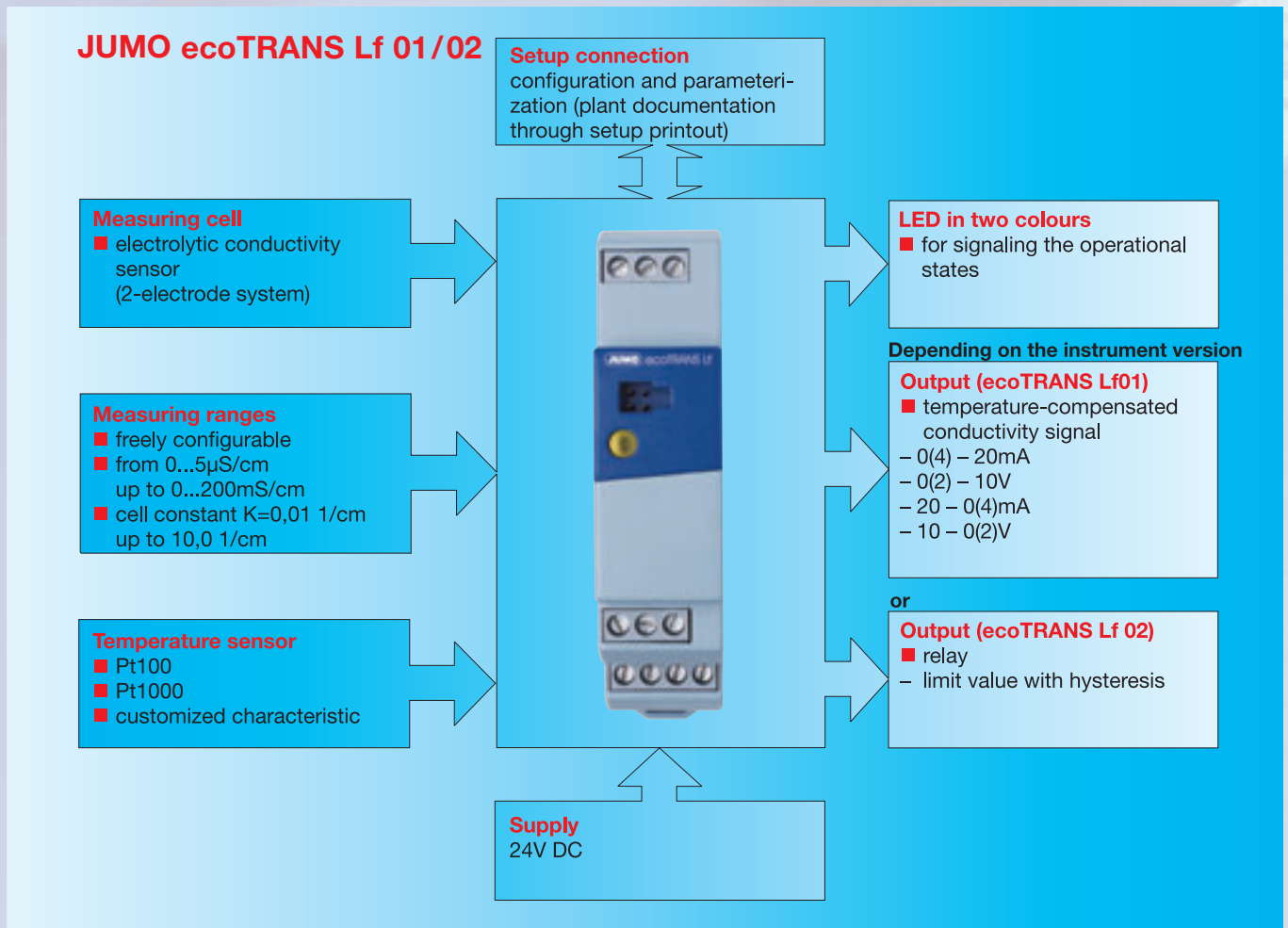


JUMO ecoTRANS Lf 01/02/03

Transmitter series for measuring electrolytical conductivity



JUMO ecoTRANS Lf 01/02/03: economical



- operation/programming through setup program (e.g. range with cell constant; output signal or switching point)
- temperature compensation
 - linear (0 % per °C to 5.5 % per °C)
- housing for DIN-rail mounting
 - DIN rail 35mm x 7.5mm to EN 60715 A.1
 - dimensions 93.5mm x 22.5mm x 61.6mm (H x W x D)

Features of the JUMO ecoTRANS Lf 01

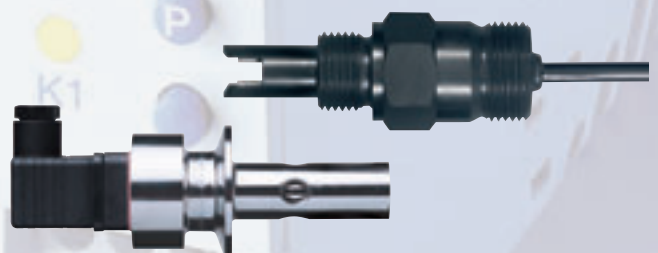
- analog output, electrically isolated
- output signal freely programmable within the ranges

Features of the JUMO ecoTRANS Lf 02

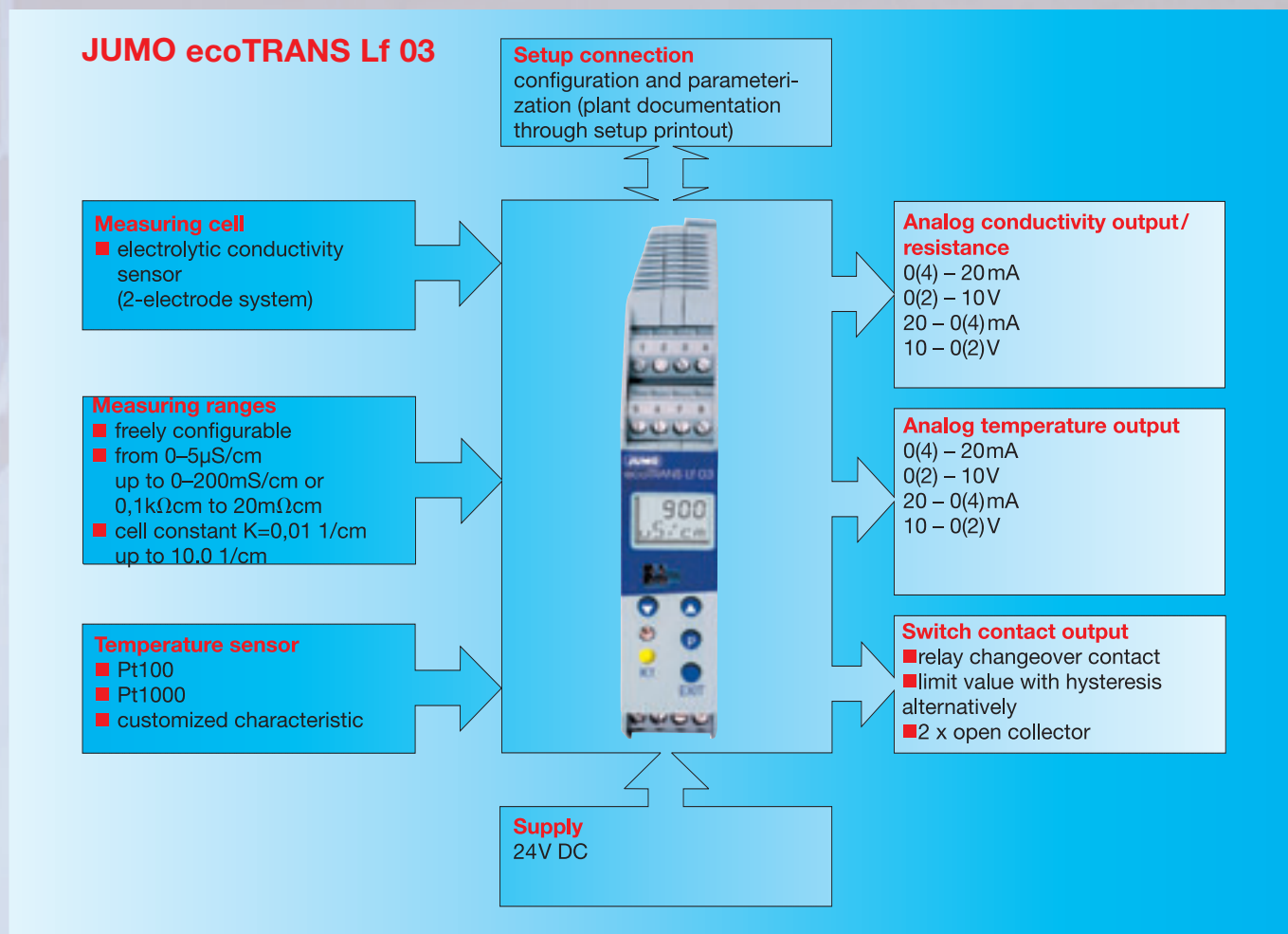
- integrated relay (switching device only)
- “automatic learning” function (switching point can be defined without setup program)

The complete measurement system from a single source – make your choice from our large selection of conductivity sensors:

- from simple sensors for general water management through to designs that meet pharmaceutical requirements
- cell constant K = 0.01 - 0.1 - 1.0 - 3.0 - 10.0
- integrated Pt100/Pt1000 temperature sensor
- temperature-resistant versions up to 160 °C
- pressure-proof versions up to 40 bar
- accessories (conductivity simulator, connecting cable)



al • cost-effective • focusing on essentials



- operation/programming (e.g. range with cell constant; output signal or switching point)
 - setup program
 - buttons and LC display

- temperature compensation
 - linear (0% per °C to 5.5% per °C)
 - natural water to EN 27888

- two LEDs for signaling the operational states

- housing for DIN-rail mounting
 - DIN rail 35mm x 7.5mm to EN 60715 A.1
 - dimensions 109mm x 22.5mm x 124.8mm (H x W x D)

- two analog outputs, electrically isolated
 - conductivity signal/resistance signal
 - temperature signal

- “Pharmaceutical functions”
 - USP function (switched output USP <645>)
 - high-purity water to ASTM D1125-95 (neutral contamination)

- output signal freely programmable within the respective range

- switch output
 - alternatively one relay changeover contact
 - two open-collector outputs

Areas of application

General water management, cooling water monitoring, induction furnaces, laser cutting machinery, rinse tank monitoring (e.g. electroplating bath monitoring), boiler water monitoring and reverse osmosis plant (RO)

High-profile products and services

e-mail: mail@jumo.net

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Analytical Measurement

- pH/redox: sensors and transmitters/controllers
- Conductivity instrumentation: conductive and inductive
- Dissolved oxygen measurement
- Chlorine, chlorine dioxide, ozone, hydrogen peroxide and peracetic acid instrumentation
- Fittings and accessories



Controllers, Power units, System/Recording technology

- Process controls and programmers
- Automation software
- Electronic thermostats/microstats
- Safety temperature monitor/limiter
- Digital indicators
- Process controller
- Recording instruments
- Temperature transmitters
- Thyristor power switches/power units
- Software and accessories



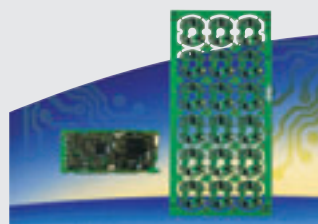
Thermostats and Dial Thermometers

- Panel and surface mounting thermostats in TR, TW, TB, STW and STB versions
- Room thermostats
- Warm-air thermostats
- Ex thermostats (ATEX)
- Electronic thermostats
- Dial thermometers as indicating and control instruments
- Bimetallic temperature switches
- Electronic temperature indicators with transmitter



Pressure measurement technology

- Pressure transmitters
- Level probes
- Pressure gauge
- Pressure switch
- Pressure cells
- Chemical seals and accessories



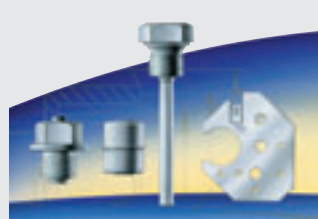
Electronic modules

- CAD layouting
- Component procurement
- THT and SMD placing
- AOI-testing
- In-circuit testing
- Functional testing
- Run-in
- Final assembly
- Final instrument test



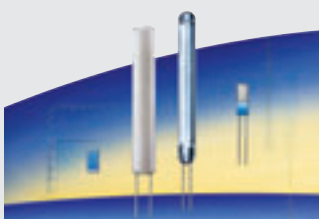
Transducers for Temperature and Humidity

- Thermocouples
- Resistance thermometers
- Ex temperature probes (ATEX)
- Wireless temperature probe
- Humidity measuring instruments
- DKD (German Calibration Service) laboratory
- Nationally accredited testing station for heat



Metalworking

- Stamping and forming systems
- Tool manufacture
- Flexible sheet metal working
- Welding, jointing and assembly systems
- Surface engineering
- Machining
- Float
- Materials laboratory



Platinum temperature sensors

in wirewound technology:

- Glass
- Glass with glass extension
- Ceramic
- Foil

in thin-film technology:

- Chip with connecting wires
- Chip in SMD style on epoxy board
- Chip with terminal clamps
- Chip in cylindrical style
- Chip in SMD style



Service

- Planning and project design for automation solutions
- German Calibration Service (DKD) for temperature
- Support during commissioning and optimization
- Worldwide service network
- Technical support line
- Seminars and workshops
- Fieldbus center
- Technical literature
- JUMO home page: www.jumo.net



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