

Transmitter/Controller Series for Liquid Analysis JUMO AQUIS 500



Transmitter/Controller S

Features

- **Operation**
 - plain-text operation
 - multilingual: English French and German (other languages can be loaded)
 - unambiguous key assignment
- **Graphics display with background lighting**
- **Complete controller functionality (with outputs fitted)**
- **Wall-mounting housing, IP 67 protection**
- **Cabinet mounting, IP 65 protection**
- **Plug-in terminal blocks for easy installation**
- **Electrode monitoring**
- **Complete family of instruments**

Operation

For easy programming and operation, all parameters are arranged in clearly structured levels and shown in plain text. Operation is protected by a code word. This facilitates individual adaptation of the operation, since parameters can be generally enabled or assigned to the protected area.

Block structure

2 analog inputs

- Main input
 - pH, redox potential (JUMO AQUIS 500 pH)
 - conductivity (JUMO AQUIS 500 CR/Ci)
 - standard signal (JUMO AQUIS 500 AS)
- Subsidiary input
 - Pt100/Pt1000 automatic detection
 - NTC (JUMO AQUIS 500 AS)

1 binary input

- Activated by floating contact
 - key lock
 - HOLD
 - alarm stop

Supply voltage

- 12 – 24V DC $\pm 15\%$
- 20 – 30V AC/DC 48 – 63Hz
- 110 – 240V AC $+10\%/-15\%$, 48 – 63Hz



PC setup program

- User-friendly configuration
- Load different operator languages
- System documentation

Outputs

- Max. 2 relays (changeover, SPDT, 3A, 250V AC)
- Programmable controller function
 - limit function
 - pulse width function
 - pulse frequency function
- PID structure (can be activated)

- Max. 2 continuous outputs (0/4 – 20mA, 0 – 10V)
 - analog process value output
 - continuous controller output
 - electrically isolated

Representation

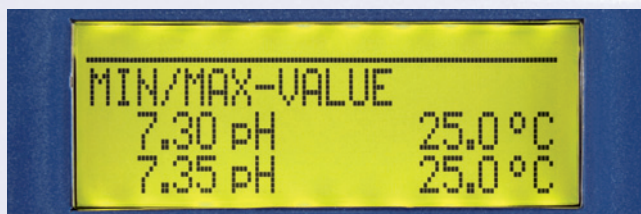


● Plain-text operation



● Measurement representation

- digital value
- bar graph display
- trend display



● History function

- MIN/MAX values
- calibration logbook

Series JUMO AQUIS 500

Instrument versions

JUMO AQUIS 500 pH

For the measurement of pH, redox potential and ammonia concentration

- Display units
 - pH
 - mV
 - ppm
- Asymmetrical/symmetrical high-impedance input
- Single-point, 2-point and 3-point calibration
- ISFET electrodes (glass-free measurement) can be connected

JUMO AQUIS 500 CR

For the measurement of electrolytic conductivity or specific resistance, using 2- and 4-electrode sensors

(conductive measurement principle, especially suited to low to medium conductivities and clean media that do not form deposits)

- Display units
 - $\mu\text{S}/\text{cm}$; mS/cm
 - $\text{k}\Omega\text{cm}$; $\text{M}\Omega\text{cm}$
 - ppm (TDS)
 - customized (five characters)
- Integrated temperature compensation (linear, nat. water, ASTM)
- USP function (pharmaceutical water)
- High-purity water
- Customer-specific concentration curve can be programmed through the optional PC setup program

JUMO AQUIS 500 AS*

For the measurement of disinfectants (such as free chlorine, chlorine dioxide, ozone) and dissolved oxygen

- Display units
 - ppm
 - mg/liter
 - % saturation
- Flow monitoring can be directly connected
- Integrated temperature compensation

JUMO AQUIS 500 Ci*

For the measurement of electrolytic conductivity or concentration in liquid media

(inductive measurement principle, especially suited to higher conductivities and media that form deposits)

- Display units
 - $\mu\text{S}/\text{cm}$; mS/cm
 - g/liter
 - customized (five characters)
- Stored concentration curves, e.g. for
 - caustic soda
 - nitric acid
- Customer-specific concentration curve can be programmed through the optional PC setup program

* Instrument versions in preparation

Mounting variants



Wall mounting



Cabinet mounting

Areas of application

- Drinking water monitoring and treatment
- Process measurements, electroplating plant, final checks, neutralization plant
- Industrial and municipal water, general water and wastewater engineering
- Service, process and wastewater
- Drinking and well water, boiler feed water
- Rainwater, pond and surface water
- Greenhouses
- Swimming baths
- Aquariums (also seawater aquariums)

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



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