



More than **sensors + automation**

JUMO ecoLine 0-D0

Optical Sensor for Dissolved Oxygen with
display unit/controller JUMO AQUIS 500 RS

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O₂



Innovative excellence

- Smart digital sensor based on the luminescence method
- High level of measuring accuracy, even at low concentrations
- Long-term stability, low maintenance
- Calibration data and history saved in the sensor electronics
- Easy to connect with "plug and play"
- No cross sensitivity to hydrogen sulfide (H₂S)
- No electrolyte replacement required
- No minimum velocity in blower stream
- Short response time



Type 202569, type 202613

Oxygen sensor JUMO ecoLine O-DO

In addition to measuring the pH value and conductivity, determining the concentration of dissolved oxygen is an important task in aqueous analytical measurement. For this purpose, JUMO presents the JUMO ecoLine O-DO as digital sensor based on a visual measurement procedure (luminescence method). Unlike conventional electrochemical sensors, this optical sensor is characterized by a measurement that is low-drift, low-maintenance, and has great long-term stability. The JUMO ecoLine O-DO saves the calibration data and calibration history straight in the sensor electronics. This makes it easy to “plug and play” without the need for recalibration. The robust sensor housed in a stainless steel case operates across a measuring range from 0 to 20 mg/l and can be used in a temperature range from 0 to 60 °C. Immersion and flow fittings are available as accessories.

Display unit JUMO AQUIS 500 RS

The sensor is connected to the JUMO AQUIS 500 RS transmitter with integrated controller function via RS485 interface. The transmitter is designed as a field device with protection type IP67 for use on site; however, it can also be mounted in a control cabinet if required. Plain text displays make the operation easier – the backlight enables readings to be taken even in adverse lighting conditions. The JUMO AQUIS 500 RS supplements the proven AQUIS 500 series, which already contains devices for measuring pH value, redox voltage, conductivity, ammonia concentration and turbidity.

Application areas

Municipal and industrial sewage treatment plants, drinking water monitoring, protection of water bodies, fish farms, technical processing plants.

Technical data

JUMO ecoLine O-DO – type 202613

Measuring principle	Visual measurement using luminescence method
Measuring ranges	0.00 to 20.00 mg/l \pm 0.1 mg/l 0.00 to 20.00 ppm \pm 0.1 ppm 0 to 200 % \pm 1%
Resolution	0.01 mg/l
Max. pressure	5 bar
Operating temperature	0 to 60 °C
Maximum response time	< 1 s
t ₉₀	< 60 s
Voltage supply	DC 5 to 12V
Dimensions	Diameter: 25 mm Length: 146 mm
Material	316L
Protection type	IP68

JUMO AQUIS 500 RS – type 202569

Display unit with integrated controller and 2 analog and 2 switching outputs