

Digital Optical Sensor for Dissolved Oxygen in Aqueous Solutions

JUMO digiLine O-DO S10 can be used in fresh and salt water

With its state-of-the-art optical fluorescence quenching technology and digital signal processing functionality, the JUMO digiLine O-DO S10 ensures long-term stability when measuring oxygen and temperature. Possible application areas for the sensor include fish farming applications, sewage treatment plants, and other areas of water and wastewater engineering.

The sensor housing is made from tough PVC so that the JUMO digiLine O-DO S10 can be used in both fresh and salt water. Using the innovative, user-friendly connection concept from the JUMO digiLine bus system the device can be easily and quickly connected to the digiLine Master via Plug and Play. In addition, the system enables more efficient and faster cabling of plants in which several parameters need to be measured simultaneously at various locations.

The sensor also comes with an innovative, integrated, state-of-the-art sensor management system. This system acquires and logs relevant operating data over the sensor's entire lifecycle to optimize processes and procedures. This includes the acquisition of operating hours as well as functions designed to enable predictive maintenance such as timely notifications when calibration work is required or a sensor cap needs to be replaced.

An RS485 Modbus RTU interface and an analog output (4 to 20 mA) enable easy integration into the system with field devices and process control systems. The sensor's measuring range is 0 to 20 mg/l. It can be used in a temperature range between -5 and +50 °C.

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Photo: JUMO

Image caption: The JUMO digiLine O-DO S10 enables the oxygen content in aqueous solutions to be precisely measured.

The JUMO corporate group, headquartered in Fulda, Germany employs around 2 400 people worldwide and is one of the leading manufacturers in the field of industrial sensor and automation technology. JUMO products are used around the globe in industries such as heating and air conditioning, food and beverage, renewable energies, water and wastewater, and industrial furnace construction. The corporate group encompasses 5 branch offices in Germany, 25 subsidiaries in Germany and abroad, and more than 40 agencies around the world. The company posted a turnover of 253 million euro in 2019.