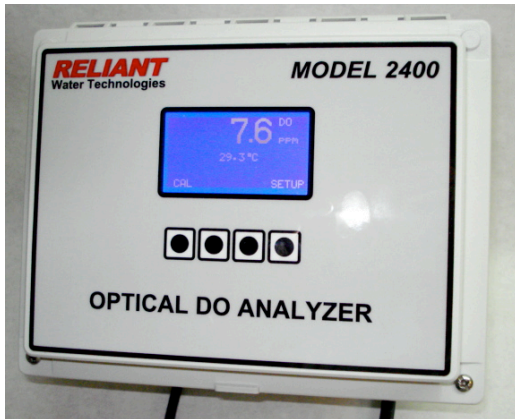


# **RELIANT** Water Technologies

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## **Model 2400 Optical Dissolved Oxygen Analyzer**

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**Model 2400 DO Analyzer**

The **Reliant Model 2400 Optical Dissolved Oxygen (DO) Monitoring and Control System** is an economical, full featured optical dissolved oxygen analyzer that brings full featured optical DO capability, and a long-life optical sensor that remains in calibration for at least a year.

The Model 2400 analyzer provides the user with exactly what they need for continuous DO monitoring and control of important aeration processes - a solid DO reporting system, that seldom requires maintenance, always has the correct DO/temperature reading, and communication capabilities to whatever data collection system that he might require. All of this at a reasonable price.

With analyzer features like a backlit display, up to 72 hour trending on the display, both digital and analog outputs, and two control relays, the Model 2400 offers the functions of a full-powered, continuous monitoring and control analyzer at close to the price of a portable DO meter.

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### **The Model 24 Optical Sensor**

The **Model 24 Optical** DO sensor utilizes luminescent sensing technology. This sensor is CE approved and is approved by the ASTM International Method D888-05. This sensor is stable and efficient in very low DO and has a top end range of 20 PPM. The Model 24 is a true Smart sensor that allows for "plug and play" capability. It incorporates the Universal Modbus RS485 protocol which allows up to 4 sensors to be connected to the Reliant Water Model J-240 Communications Module. The Model 24 can be Jet Cleaned with air by using the unique, heavy duty, Reliant Model SCM Sensor Cleaning Module. This air cleaning system can handle from 1 to 4 Model 24 sensors. If house water is available without freezing 12 months of the year, the Model SCM-5 is another Jet Cleaning method that can be used for continuous maintenance free service from the Model 24 sensor.



**Model 24 Optical DO Sensor**

## True Smart Sensor Functionality



For users that have complete SCADA control in their plant, Reliant Water offers the J-240 Communications Control Module. Each J-240 Communications Module can accept up to 4 Model 24 Optical DO sensors. Each sensor protocol continuously reports both DO and temperature to the plant's central control computer system. The J-240 Module can be located wherever it is most convenient for mounting up to 4 Model 24 sensors.

**Model J-240 Communications Module**

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### Model 2400 Optical DO System Specifications

#### **Analyzer**

**DO Range:** 0 – 20 mg/l; 0 – 200%  
**Resolution:** .01 mg/l – full range  
**Accuracy:** +/- 1% of full range  
**Stability:** .1mg/l  
**Temperature:** 0 – 60°C x 0.1°C or  
32° - 122° F x 1°F  
**Accuracy:** +/- 1% of reading  
**Display:** Multi-line, backlit, graphical  
**Input Power:** 115V/230V selectable,  
fuse protected  
**Outputs:** Analog - 2 isolated 0-20mA  
configurable -1 DO and 1 Temp  
Digital: Isolated RS232  
**Relays:** 2, Form C, 250V, 10A – includes  
hysteresis for latching/unlatching,  
1 with various functions  
**Enclosure:** NEMA 4X: IP-65

#### **Sensor**

**Type:** Optical – Luminescent  
**Temperature compensated**  
**Water Movement:** Not required  
**Electronic Interface:** Modbus RS-485  
**Body Material:** 316 Stainless Steel  
IP-68 protection

#### **J-240 Communication Module**

**Number of sensors:** Up to four  
**Input Power:** 115V/230  
**Enclosure:** NEMA 4X: IP-65

#### **Weights**

**Analyzer and Sensor:** 6 lbs (2.7 Kg) with  
3 meter cable

**Model J-240 Comms Box – 2 lb (.9 Kg)**

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**RELIANT**

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