

RELIANT Water Technologies

Model 2100 Dissolved Oxygen Analyzer



Model 2100 DO Analyzer

The **Reliant Model 2100 Dissolved Oxygen (DO) Monitoring and Control System** is a rugged, full featured dissolved oxygen analyzer which utilizes a long life, low maintenance galvanic DO sensor.

The Model 2100 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 or recalibration, always has the correct DO/temperature reading, and communication capabilities to whatever data collection system that he might require. All of this at a lower than reasonable price.

With analyzer features like a backlit display, 72 hour trending on the display, both digital and two analog outputs, and two control relays, the Model 2100 offers the functions of a full-powered, continuous monitoring and control analyzer at close to the price of a portable DO meter. Combined with the rugged reliability and accuracy of a galvanic DO sensor, the Reliant Model 2100 system is the most reasonably priced DO meter on the market

The Model 20 Galvanic Sensor

The **Model 20** DO sensor utilizes proven galvanic sensing technology – without a question the most accurate and reliable DO sensing technology ever developed. The pure platinum cathode makes the sensor incapable of being poisoned by other gases often found in impure waters, such as hydrogen sulfide. This sensor utilizes the only DO sensing technology that is successful in continuous de-nitrification monitoring and control applications. It is also the only sensor design that can be used continuously in very violent pure liquid oxygen injection systems. Complete systems are supplied with over 5 years of sensor electrolyte and membranes. When used correctly these Teflon® membranes will last well over a year and can be made to require a minimum of maintenance. See the back page for further membrane information.



**Model 20
Galvanic
Sensor**



Model 20T Galvanic Sensor

Why Galvanic Sensor Technology?

Galvanic DO technology has proven, in over 40 years of service, and in virtually every possible application, to be the most accurate, most rugged, and most flexible DO sensing technology available. Common applications where sensor biological and grease fouling, and abrasion are common -

- Wastewater bio-reactors and digesters
 - Forced air diffusion
 - Liquid oxygen injection
 - MBR solids reactors
- Aquaculture pond and tank culture
- Gold mining leachate tanks
- Dairy waste bio-reactors

When advised correctly by the manufacturer, all of these applications can use galvanic DO sensing successfully for well over 1 to 2 years with minimal cleaning and an occasional single button recalibration. No expensive annual cap changes, or arduous recalibration processes. The simple advice of which membrane thickness to use is all that is necessary for your galvanic sensor to work for years with minimal upkeep. Customers too often choose to 'clean and rebuild' galvanic sensors too often, usually because 'they look bad.' This is the worst thing that can be done because the longer a galvanic sensor operates, with a factory membrane and the correct amount of electrolyte, the better it works. Many customers often experience 3 to 5 years of active life from a single membrane/electrolyte recharge from a galvanic sensor. **Let Reliant Water Technologies show you how to receive this level of reliability.**

Model 2100 System Specifications

Analyzer

DO Range: 0 – 99 mg/l

Resolution: .01 mg/l – full range

Accuracy: +/- .1 mg/l – 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: Galvanic

Sensing Medium: Armored Laminar® Pane

Cathode: 99.9% non-poisonous Platinum

Anode: Lead

Temperature compensated

Weights

Analyzer and Sensor: 3 lbs (1.4 Kg)

RELIANT

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