Aysix technologies
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PORTABLE DISSOLVED OXYGEN

Optical Sensor—No Membranes—No Constant Calibration—Data Logging

The Insite Instrumentation Group Model 3100 portable dissolved oxygen analyzer is a unique system that combines advanced electronics with a solid-state, optical sensor. It is a multi-range analyzer designed for the measurement of dissolved oxygen in all aqueous solutions. The microprocessor-based electronics of the analyzer provide a high degree of flexibility and ease of use. Data logging and the ability to download the data directly to a computer are standard features.



Features

- **Fluorescence sensor technology**
- **No membranes, fill solutions, or cartridges**
- **Sensor does not have to remain moist**
- **Data logging**
- **Serial interface to computer spreadsheet**
- **Calibration is factory programmed**
- **Large, backlit graphical display**
- **Waterproof**
- **Rechargeable batteries**
- **Real time clock**

Benefits

- **Increased accuracy**
- **Easy to use**

A very specific energy wavelength is transmitted to a ruthenium compound immobilized in a sol-gel matrix. The ruthenium will absorb this energy, changing the outer electron's energy level. The electron will then collapse back to it's original energy state, emitting the energy as a photon with a different specific wavelength. This is called fluorescing. If the intensity of the transmitted wavelength is tightly controlled, the amount of fluorescing is both predictable and repeatable. If oxygen molecules are present the amount of fluorescing is reduced, referred to as fluorescence quenching. By measuring the amount of quenching it is possible to determine the amount of oxygen present.

MODEL A6-IIG-3100 SPECIFICATION

Measuring Range	**0 to 25 ppm**
Accuracy	**1% of reading or .02 ppm, whichever is greater**
Sensitivity / Resolution	**.01 ppm below 4.00, .1 ppm above 4.0**
Stability	**.01 ppm**
Repeatability	**.01 ppm**
Sensor Drift	**Less than 1% per year**
Temperature Range	**0 to 60 degrees C**
Response Time	**95% in less than 60 seconds**
Sensor Check	**Automatic self diagnostics**
Output	**RS-232 serial**
Memory Backup	**Yes**
Display	**LCD graphic display with UV protection** **Contrast adjustment via keypad** **On demand backlighting**
Sensor Cable Length	**20 feet**
Ambient Temperature	**minus 20 degrees C to 70 degrees C**
Ambient Humidity	**0 to 100 percent**
Enclosure Rating	**NEMA 4X**
Wetted Materials	**Epoxy, polyurethane, and PVC**
Maximum Pressure	**100 psi**
Shipping Weight	**approximately 4 pounds**

ORDERING INFORMATION

The Model 3100 portable D.O. system includes analyzer, sensor, battery charger. Optional Download Kit—Includes Cable to connect 3100 to PC and automatic download software.

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