



Optical Dissolved Oxygen Meter for Portable Analysis

A Revolution in DO Measurement!

Advanced optical fluorescence technology for the measurement of dissolved oxygen in water and wastewater. Designed for the harsh conditions of the wastewater industry.



Insite IG Model 3100 Portable DO Analyzer

The Insite IG Model 3100 portable dissolved oxygen analyzer is a state of the art, easy to use meter that provides many benefits to the plant operations staff.

The Insite IG Model 3100 is a unique system which 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 micro-processor based electronics of the analyzer provide a high degree of flexibility and ease of use. Data logging the ability to download the data directly to computer are also featured.

The Model 3100 is specifically designed to handle the harsh conditions of the wastewater industry, however it can also be used in aquaculture, environmental monitoring and process applications.

The **optical DO measurement system** utilizes fluorescence technology, which has many benefits...

Readings are not affected by flow - the meter will measure accurately in stagnant water - something which DO sensors with membranes struggle to do.

No membranes or filling solutions basically eliminates maintenance apart from occasionally flushing the sensor with water.

Minimal calibration. The sensor has been designed to require very infrequent calibration. Unlike polarographic systems, light fouling of the sensing element should not affect the accuracy of the reading, but should only slow the response time of the system. With the sensor kept reasonably clean, the calibration should hold for 6 months to 2 years, depending upon conditions.

SPECIFICATIONS

Model Model 3100 Portable DO Analyzer

Sensor Specifications

Dissolved Oxygen	
Range	0 to 25ppm
Accuracy	1% of reading or 0.02 ppm, the greater of
Stability	0.01ppm
Repeatability	0.01ppm
Resolution	0.00 to 3.99 ppm: 0.01 ppm 4.0 to 20.0 ppm: 0.1 ppm
Sensor drift	Less than 1% per year

Temperature

Range	0 to 60 deg C
Resolution	0.1 deg C

Response time 95% in less than 60 seconds

Sensor check Automatic self diagnostics

Hardware Specifications

Datalogging	up to 50 screen shots	
Output	RS232 serial to PC	
Display	LCD graphic display with UV protection, contrast adjustment via keypad, on demand backlighting	
Operating Environment	Ambient Temp.	-20 to 70 deg C
	Ambient Humidity	0 to 100%
	Max. pressure	100psi (70m)

Enclosure rating NEMA 4X

Wetted materials Epoxy, polyurethane, PVC

Power Rechargeable batteries, approx 10-12 hours use, recharge time 4 hours, auto shut off after 15 minutes

Dimensions	Sensor	48mm Diameter x 140mm length
	Cable length	6m
	Display	255 x 115 x 60mm
Shipping weight		approximately 1.8kg

ORDERING INFORMATION

IIG3100	Insite IG Model 3100 Portable DO meter Includes analyzer, charger, manual
IIG3100C	Insite IG Model 3100 Portable DO meter Includes the above plus PC download kit
PP1500	Hard Plastic Pelican Carry Case

Due to continual development, specifications are subject to change without notice.



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