

QUIMICOMPANY

EQUIPOS E INSUMOS PARA LABORATORIO

APERA
INSTRUMENTS

PORTABLE OPTICAL DISSOLVED OXYGEN METER KIT WITH DATA LOGGER & AUTO. SALINITY COMPENSATION

REF: DO8500



500 Groups of data storage and
USB data output



Foldable stand allows use as a
benchtop



Auto. salinity compensation



Auto. air pressure compensation



Large backlit LCD screen

- Cutting-edge Optical DO sensor accurately measures dissolved oxygen in an effortless manner
- Quick and easy calibration for saturated oxygen and zero oxygen
- Large backlit LCD screen, simultaneously displaying DO and temperature.
- Complete test kit in a rugged carrying case

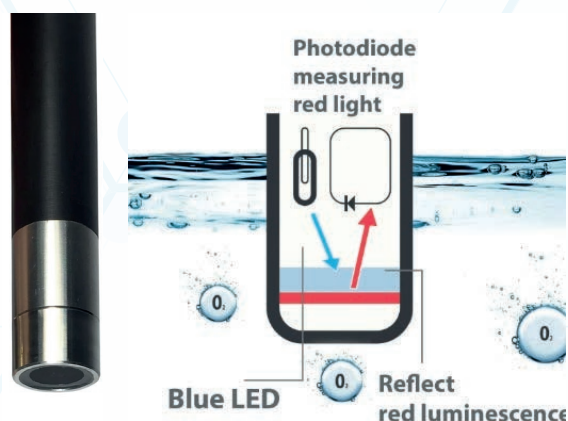
☎ (601) 300 3161 + (57) 316 532 6905

🌐 www.quimicompany.com.co

✉ info@quimicompany.com.co

PORTABLE OPTICAL DISSOLVED OXYGEN METER KIT WITH DATA LOGGER & AUTO. SALINITY COMPENSATION

REF: DO8500



Comparison between electrochemistry DO sensor and optical DO sensor

	Polarography or galvanic DO sensor	Optical DO sensor
Measurement	Consume oxygen in measurement - Unstable measurements.	Adopts Fluorescence technologies, no oxygen being consumed during test - stable measurements
Calibration	Serious electrode polarization, frequent calibration is needed; calibration time is long	No polarization; no need to calibrate frequently; only 2 minutes to calibrate.
Performance	Slow response, bad repeatability, low accuracy	15 seconds response time, good repeatability, high accuracy.
Lifetime	Electrode membrane need to be frequently replaced; electrolyte need to be refilled; short life time.	No electrode membrane; no electrolyte; Service life > 8000 hours

Intelligent Functions

- Auto. Temperature Compensation; Auto. Barometric Compensation
- Auto. Salinity Compensation (DO8500 only)
- GLP data logger with 500 sets of data storage (DO8500 only)

- Data export via USB to PC-link software (DO8500 only)
- Fully customizable settings for DO unit, resolution, auto. reading lock, salinity compensation, barometric pressure calibration, and more

Kit complete



1. User Manual
2. Carrying case
3. USB Communication cable
4. DO8500 Portable Optical Dissolved Oxygen Meter
5. DO803 Optical Dissolved Oxygen Probe
6. Probe Calibration/storage sleeve
7. Conductivity Electrode 2301-3M
8. PC-Link Communication Software Flashdrive
9. Sponge for Water Storage (spare) 4
10. Small Screwdriver
11. Combined electrode clip

 (601) 300 3161 + (57) 316 532 6905

 www.quimicompany.com.co

 info@quimicompany.com.co

**PORTABLE OPTICAL DISSOLVED OXYGEN METER KIT WITH
DATA LOGGER & AUTO. SALINITY COMPENSATION**

REF: DO8500

Technical specifications

Parameters		Description
Dissolved Oxygen	Range	(0 to 20.00) ppm (mg/L); (0 to 200.0) %
	Resolution	0.01/0.1mg/L (ppm); 0.1/1%
	Accuracy	±2% reading or ±2% saturation, whichever is greater; ±2% reading or ±0.2 mg/L, whichever is greater
	Response time	≤30s (25°C, 90% response)
	Calibration point	Saturated oxygen & zero oxygen
	Temperature compensation	Automatic, (0 to 50.0) °C
	Pressure compensation	Automatic, (60 to 120) kPa
	Salinity Compensation	Automatic or manual, (60 to 120) kPa
Temperature	Range	(0 to 50.0) °C
	Resolution	0.1 °C
	Accuracy	±0.5°C
Instrument Functions	Display	LCD (white backlight)
	Stable reading indication	(Happy face) icon
	Automatic hold	Yes
	Date and time	Yes
	Data Storage	500 sets
	Auto. timing data logger	Yes
	USB data output	Yes
	IP rating	IP57 waterproof
Others	Power	AA battery x3 (1.5V×3)
	Dimension/weight only meter	88×170×33mm/313g
	Dimension/weight for kit	360×270×76mm/1.6kg
	What's included	DO8500 meter DO803 DO probe(3M cable) 2301-3M salinity electrode Calibration sleeve+carrying case Combination probe clip, USB cable+software flashdrive