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EcoSense® ODO200M Optical DO/Temperature

Accurate, economical, handheld dissolved oxygen instrument with optical sensor technology

The YSI EcoSense® instruments provide accurate data in the most affordable package. The "M" stands for memory and the instruments feature a real-time clock, larger memory and simple data transfer to a PC with a built-in USB port.

The ODO200M's optical sensor is easy-to-use and provides accurate data without the hassle of membrane changes and frequent calibrations.

The ODO200M simultaneously measures dissolved oxygen and temperature with the following features:



Parameters:

Dissolved Oxygen (optical)

% and mg/L

Temperature

°C

Optical benefits include:

- no stirring required
- no warm-up time
- no electrolyte solution
- no electrode maintenance
- no membranes
- no interference from gases such as hydrogen sulfide
- less frequent calibration

- Rugged, waterproof, field-worth case. IP-67 rated.
- Durable field probe and cables made in the USA. 1-, 4- and 10-meter cables available.
- Waterproof micro-USB port for transferring data to PC; no software required.
- Holds 250 data sets; no need to write down data.
- Real-time clock for date/time stamp of saved data.
- User-selectable re-calibration prompt provides reminder to calibrate.
- Automatic temperature compensation; manual input for salinity and barometric pressure compensation.
- 1-year warranty on instrument, probe/cable and sensor cap.
- Replaceable optical sensor cap with 1-year warranty (12-18 month expected life).

The ODO200M is designed for quick, accurate measurements at an affordable price. The maintenance-free optical dissolved oxygen sensor and easy-to-use handheld make the ODO200M ideal for many applications.



EcoSense ODO200M System Specifications (Instrument, Probe, and Cable)

Temperature °C	Range	0 to 50°C*
	Resolution	0.1°C
	Accuracy	±0.3°C
Dissolved Oxygen % Saturation	Range	0 to 200%
	Resolution	0.1% air saturation
	Accuracy	±1.5% of the reading or ±1.5%, whichever is greater
Dissolved Oxygen mg/L	Range	0 to 20 mg/L
	Resolution	0.01 mg/L
	Accuracy	±1.5% of the reading or ±0.15 mg/L, whichever is greater
Barometer (mBar)	Range	500 to 1125 mBar; manual input during calibration
	Resolution	1 mBar
Salinity (ppt)	Range	0 to 40.0 ppt; manual input during calibration

EcoSense ODO200M Additional Specifications

Operating range	Temperature	0°C to 50°C (32 to 122°F)
	Relative Humidity	up to 95%
Temperature Compensation	0 to 45°C; automatic temperature compensation range for DO mg/L measurements	
Waterproof rating	IP-67 waterproof	
Handheld Size	78 mm wide (widest point) x 184 mm long x 37 mm deep (3.1 in x 7.25 in x 1.45 in)	
Weight with battery	280 grams (0.6 lb)	
Battery	One 9 volt (included); 50 hour battery life in manual mode; Real Time Clock (RTC) powered by non-replaceable CR2032 coin battery (3V)	
Salinity Compensation	0.0 to 40.0 ppt; manual input during calibration	
Pressure Compensation	500 to 1125 millibar (375 to 844 mmHg); manual input during calibration	
Audio Feedback	Yes, all keys	
Auto shutoff	Automatically powers off after 30 minutes of inactivity	
Memory (data sets)	250 (1 data set = DO, temperature, date/time)	
Re-Calibration Timer	User-selectable; from 0 to 60 days	
Real-Time Clock (RTC)	Yes, for date/time stamp of saved data and calibration timer	
USB Port	Yes, waterproof micro-USB for downloading data to PC	

EcoSense DO200M Ordering Information (order items separately or as a kit)

601023	ODO200M meter only - includes manual, USB cable and 9 volt battery
601024	Kit: ODO200M meter, 1 meter cable/probe assembly, carrying case
601025	Kit: ODO200M meter, 4 meter cable/probe assembly, carrying case
601026	Kit: ODO200M meter, 10 meter cable/probe assembly, carrying case
606327	1-meter dissolved oxygen and temperature field cable and probe only
606328	4-meter dissolved oxygen and temperature field cable and probe only
606304	10-meter dissolved oxygen and temperature field cable and probe only
606330	Hard-sided, plastic carrying case with form fitted foam insert; 31.75 x 22.86 x 9.4 cm (12.5 x 9 x 3.7 in)
606326	Replaceable DO Sensor Cap

* Temperature compensation for DO mg/L is only between 0 to 45°C



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