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EcoSense® EC300M Conductivity/Temperature

Accurate, economical, handheld instrument

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 EC300M is easy-to-use, field-ready and utilizes a stable, 4 nickel electrode sensor design that results in accurate measurements.

The EC300M measures conductivity, specific conductance, salinity, TDS (Total Dissolved Solids) and temperature with the following features:

- Rugged, waterproof, field-worthy case. IP-67 rated.
- Durable field probe and cables made in the USA. 1-, 4- and 10-meter field 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.
- Stable, four-electrode design provides accurate field measurements.
- 1-year warranty on instrument and probe/cable assembly.

The EC300M is designed for quick, accurate results in an economical platform. Easy-to-use, waterproof and backed by a 1-year warranty, the EC300M is ideal for a wide-range of applications.

Parameters:

Conductivity

$\mu\text{S/cm}$, mS/cm

Specific Conductance

$\mu\text{S/cm}$, mS/cm

Salinity

ppt

Temperature

$^{\circ}\text{C}$, $^{\circ}\text{F}$

TDS (Total Dissolved Solids)

mg/L

EcoSense EC300M System Specifications (Instrument, Probe, and Cable)

	Range	Resolution	Accuracy
Temperature	-10 to 90°C	0.1°C	±0.2°C or ±0.4%, whichever is greater
Conductivity	0 to 499.9 µS/cm	0.1 µS/cm	±1% of reading + 2 µS/cm
	500 to 4999 µS/cm	1 µS/cm	±1% of reading + 5 µS/cm
	5.0 to 49.99 mS/cm	0.01 mS/cm	±1% of reading + 0.05 mS/cm
	50 to 200 mS/cm	0.1 mS/cm	±2.5% of reading + 0.5 mS/cm
Salinity	Calculated; 0.0 to 70.0 ppt	0.1 ppt	±0.2% Full Scale
Total Dissolved Solids	mg/L calculated; User-selectable TDS constant from 0.3 to 1.00, default value is 0.65		

EcoSense EC300M Additional Specifications

Operating range	Temperature	0 to 50°C (32 to 122°F)
	Relative Humidity	up to 95%
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)	
ATC Probe	Thermistor, 10kΩ/25°C	
Battery	One 9 volt (included); 90 hour battery life; Real Time Clock (RTC) powered by non-replaceable CR2032 coin battery (3V)	
Temperature Compensation Coefficient	0.0% to 4.0%	
Reference Temperature	15.0 to 25.0°C	
Default Cell Constant	5	
Cell Constant Range	4.50 to 5.50	
Audio Feedback	Yes, all keys	
Autolock feature	Yes	
Auto shutoff	Automatically powers off after 30 minutes of inactivity	
Memory (data sets)	250 (one data set = DO, temp, 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, built-in waterproof micro-USB for downloading data to a PC. No software required. USB cable included	

EcoSense EC300M Ordering Information (order items separately or as a kit)

601034	EC300M, meter only - includes manual, USB cable and 9 volt battery
601035	Kit: EC300M meter, 1 meter cable/probe assembly, carrying case
601036	Kit: EC300M meter, 4 meter cable/probe assembly, carrying case
601037	Kit: EC300M meter, 10 meter cable/probe assembly, carrying case
606044	1-meter built-in conductivity and temperature field cable and probe only
605395	4-meter built-in conductivity and temperature field cable and probe only
605396	10-meter built-in conductivity and temperature field cable and probe only
606043	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)
3161 or 3167	1,000 us/cm calibrator; quart (or) 1,000 us/cm calibrator; 8 each pints
3163 or 3168	10,000 us/cm calibrator; quart (or) 10,000 us/cm calibrator; 8 each pints
3165	100,000 us/cm calibrator; quart
3169	50,000 us/cm calibrator; 8 each pints



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