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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.

### **Parameters:**

Conductivity

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

Specific Conductance

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

Salinity

ppt

Temperature

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

TDS (Total Dissolved Solids)

$\text{mg/L}$



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.

## 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, waterproof micro-USB for downloading data to PC   |                         |

## 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  |



**YSI Incorporated**  
1725 Brannum Lane  
Yellow Springs, OH 45387

☎ 1.800.897.4151  
✉ info@ysi.com  
🌐 **YSI.com**

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