



**Parameters:**

Conductivity  
Specific Conductance  
Salinity  
Temperature  
TDS (total dissolved solids)

## **EcoSense EC300A Conductivity/Temperature**

**Accurate, economical, handheld measurements**

The EcoSense® line of compact, handheld instruments provides the most accurate data in the most affordable format. The instruments feature an easy-to-use interface, one-hand operation, IP67 waterproof case, and low cost of ownership over the life of the product. The EC300A simultaneously measures conductivity, specific conductance, salinity, TDS (Total Dissolved Solids) and temperature with the following features:

- IP67 Waterproof housing
- 1-year instrument warranty
- Rugged, weighted probe assembly
- Automatic temperature compensation
- 4- and 10-meter field cables available
- Low battery indicator with 500 hour battery life
- Super-stable, four-electrode conductivity cell designed for the field
- Auto shutoff function after 30 minutes of inactivity
- 50 data set memory

The EcoSense EC300A is also available as a kit with a 1-, 4- or 10-meter cable.



The EC300A is designed for quick, accurate results in an economical platform. The ability to measure conductivity, salinity, TDS and temperature in a simple, compact handheld allows the instrument to be used across multiple application sampling strategies. With a one-year instrument and electrode warranty, waterproof case and ease-of-use, the EC300A will fit your needs.

## EC300A System Specifications (Instrument, Probe, and Cable)

|                        |                                                                                    |                                       |                                 |
|------------------------|------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| Temperature            | Range                                                                              | -10 to +90°C (14 to 194°F)            |                                 |
|                        | Resolution                                                                         | 0.1°C                                 |                                 |
|                        | Accuracy                                                                           | ±0.2°C or ±0.4%, whichever is greater |                                 |
| Conductivity           | Range                                                                              | 0.0 µS to 200 mS, with auto ranging   |                                 |
|                        | Range                                                                              | Resolution                            | Accuracy (meter & probe)        |
|                        | 0 to 499.9 µS/cm                                                                   | 0.1 µS/cm                             | ± (1% of reading + 2 µS/cm)     |
|                        | 0 to 4999 µS/cm                                                                    | 1 µS/cm                               | ± (1% of reading + 5 µS/cm)     |
|                        | 0 to 49.99 mS/cm                                                                   | 0.01 mS/cm                            | ± (1% of reading + 0.05 mS/cm)  |
|                        | 0 to 200.0 mS/cm                                                                   | 0.1 mS/cm                             | ± (2.5% of reading + 0.5 mS/cm) |
| Salinity               | Range                                                                              | Calculated; 0.0 to 70.0 ppt           |                                 |
|                        | Resolution                                                                         | 0.1 ppt                               |                                 |
|                        | Accuracy                                                                           | ±0.2% FS                              |                                 |
| Total Dissolved Solids | TDS in g/L calculated; enter constant values from 0.30 to 1.00, default value 0.65 |                                       |                                 |

## EC300A Additional Specifications

|                         |                                                                                      |                         |
|-------------------------|--------------------------------------------------------------------------------------|-------------------------|
| Operating range         | Temperature                                                                          | 0 to 50°C (32 to 122°F) |
|                         | Relative Humidity                                                                    | up to 95%               |
| Water rating            | IP67 waterproof                                                                      |                         |
| 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     | 272 grams (0.6 lb.)                                                                  |                         |
| ATC Probe               | Thermistor, 10kΩ / 25° C                                                             |                         |
| Battery                 | One 9 volt included with purchase; 500 hour battery life                             |                         |
| Reference temperature   | 15.0 to 25.0°C (59 to 77°F)                                                          |                         |
| Temperature coefficient | 0.0% to 4.0%                                                                         |                         |
| Default cell constant   | 5.00                                                                                 |                         |
| Cell constant range     | 4.50 to 5.50                                                                         |                         |
| Calibration back-up     | Yes                                                                                  |                         |
| Audio feedback          | Yes, all keys                                                                        |                         |
| Autolock feature        | Yes                                                                                  |                         |
| Memory                  | 50 data set reviewable memory                                                        |                         |
| Auto shutoff            | Automatically powers off after 30 minutes of inactivity                              |                         |

## EC300A Ordering Information (order items separately or as a kit)

|              |                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------|
| EC300A       | EC300A Conductivity, salinity, TDS and temperature instrument only                                         |
| EC300ACC-01  | EC300A instrument, 1-meter cable and built-in electrode, hard-sided carrying case kit                      |
| EC300ACC-04  | EC300A instrument, 4-meter cable and built-in electrode, hard-sided carrying case kit                      |
| EC300ACC-10  | EC300A instrument, 10-meter cable and built-in electrode, hard-sided carrying case kit                     |
| 300-1        | 1-meter built-in conductivity and temp field cable and probe only                                          |
| 300-4        | 4-meter built-in conductivity and temp field cable and probe only                                          |
| 300-10       | 10-meter built-in conductivity and temp 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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