



a xylem brand



Distributed by:  
Air-Met Scientific Pty Ltd  
Air-Met Sales/Service  
P: 1800 000 744  
F: 1800 000 774  
E: sales@airmet.com.au

Air-Met Rental  
P: 1300 137 067  
E: hire@airmet.com.au  
W: www.airmet.com.au

**SPECIFICATIONS**

**DOCUMENT #W58-02**

## EcoSense EC300A Conductivity/Temperature

Accurate, economical, handheld measurements



### Parameters:

Conductivity  
Specific Conductance  
Salinity  
Temperature  
TDS (total dissolved solids)

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.

YSI.com/EC300A

## 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

### YSI

1725 Brannum Lane, Yellow Springs, OH 45387  
 Tel +1 937.767.7241 800.897.4151 (US)  
 environmental@ysi.com

YSI.com

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