



EC300A FIELD CONDUCTIVITY METER

Convenient conductivity, TDS, salinity, and temperature field measurements



Description

The EC300A field conductivity meters are part of the EcoSense family of products. These simple and affordable meters are precision tools that measure conductivity, salinity, total dissolved solids, and temperature. The meter comes with a super-stable rugged weighted four-electrode conductivity cell assembly on several different cable lengths. They have a built-in microprocessor which calculates and compensates for all parameters related to conductivity and temperature determinations. The meters are waterproof (IP67) when the connector cap is installed. The mechanical touch keys of the meters are highly reliable with tactile and audio feedback. The meters use one 9V battery which provides up to 500 hours of battery life. The instruments offer a low battery indicator and an automatic shutoff feature to help you maintain your instrument. Re-calibration is not required when power is restored. The front of the meters have a large LCD that displays temperature and either temperature compensated or non-temperature compensated conductivity, salinity or TDS simultaneously along with user prompts and mode indicators. The meter prompts users through calibration and measurement procedures. Other features include automatic conductivity ranging; can store 50 data sets in memory, and 50/60 Hz AC noise rejection. This meter is universal and user-friendly for field, industrial and laboratory applications. This line of field conductivity meters comes with a one year instrument, electrode, and cable warranty.

- Auto ranging meter
- Automatic temperature compensation
- Three cable lengths to choose from
- Waterproof
- Record up to 50 data sets
- Automatic shutoff and low battery indicator

Specifications

Conductivity Range:
0.0 to 499.9 $\mu\text{S/cm}$
0.0 to 4999 $\mu\text{S/cm}$
0.0 to 49.99 mS/cm
0.0 to 200.0 mS/cm

Conductivity Accuracy:
 $\pm(1\%$ of reading $+2 \mu\text{S/cm})$
 $\pm(1\%$ of reading $+5 \mu\text{S/cm})$
 $\pm(1\%$ of reading $+0.05 \text{ mS/cm})$
 $\pm(2.5\%$ of reading $+0.5 \text{ mS/cm})$

Conductivity Resolution: 0.1 $\mu\text{S/cm}$, 1 $\mu\text{S/cm}$, 0.01 mS/cm , 0.1 mS/cm

Salinity Range: 0.0 to 70.0 ppt, calculated

Salinity Accuracy: $\pm 0.2\%$ FS

Salinity Resolution: 0.1 ppt

TDS Range: TDS in g/L calculated

TDS Constant: programmable, 0.30 to 1.00, default 0.65

Temperature Range: 14° to 194°F (-10° to 90°C)

Temperature Accuracy: $\pm 0.36^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) or $\pm 0.4\%$ whichever is greater

Temperature Resolution: 0.18°F (0.1°C)

Conductivity Temperature Compensation: Automatic

Conductivity Temperature Coefficient: 0.0% to 4.0%

Conductivity Reference Temperature: 59.0 to 77.0°F (15.0 to 25.0°C)

Conductivity Cell Constant: 5.00 $\pm$ 0.50

Temperature Sensor: Thermistor, 10 k Ω at 77°F (25°C)

Calibration Back-up: Yes

Audio Feedback: Yes, on all touch keys

Battery: One 9V battery, included, ~ 500 hours (low battery indicator)

Memory: 50 data set reviewable memory

Operating Temperature Range: 32 to 122°F (0 to 50°C)

Operating Relative Humidity Range: up to 95%

IP Rating: IP67 when connector cap installed

Dimensions (LxWxH): 7.37x3x1.5 inch (18.7x7.6x3.8cm)

Weight: 0.6 lb (270g) with batteries

Options and Accessories

EC300ACC-01 Conductivity Meter Kit (PN# 606068)

Includes meter, 3.3 ft (1 m) cable and attached conductivity cell, and carrying case

EC300ACC-04 Conductivity Meter Kit (PN# 606069)

Includes meter, 13.1 ft (4m) cable and attached conductivity cell, and carrying case

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