

EC and Resistivity in a Watertight Enclosure

HI 87314 is a combination, portable meter that can read conductivity in 4 different ranges and resistivity.

For conductivity measurements, the calibration is a simple 1 point procedure via a trimmer located in the battery compartment. The supplied probe does not require recalibration when switching from one range to another. The 4- ring (stainless-steel) probe has a built-in temperature sensor that automatically compensates for temperature changes. The temperature coefficient can be adjusted from 0 to 2.5% using a knob on the front panel.

For resistivity measurements, the meter is factory calibrated and, if necessary, calibration can be adjusted.

The HI 3316D resistivity probe is easy to clean and requires little maintenance. It also features a built-in temperature sensor to automatically compensate for temperature variations. The temperature coefficient is user-selectable from 2 to 7%.

Both probes use the same DIN plug on the top of the instrument, and the meter automatically recognizes which probe is connected.

The instrument can be powered by a 9V rechargeable battery. The HI 87314 utilizes an inductive system for battery recharge, ensuring a watertight seal with no external contacts. The battery can be recharged using the HI 710040 battery charger (optional) without needing to open the meter or remove the battery.

- Rugged probe for indoor and outdoor measurements
- Easy to calibrate
- Rechargeable battery can be used with optional HI 710040 inductive charger



HI 3316D — Resistivity Probe



SPECIFICATIONS

HI 87314

Range	EC	199.9 µS/cm; 1999 µS/cm; 19.99 mS/cm; 199.9 mS/cm
	Resistivity	0 to 19.90 MΩ·cm
Resolution	EC	0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm
	Resistivity	0.10 MΩ·cm
Accuracy (@20°C)	EC	±1% FS
	Resistivity	±2% FS
Calibration	Manual, 1 point, for both EC and resistivity	
Temperature Compensation	Automatic from 0 to 50°C with β selectable from 0 to 2.5%/°C for EC and from 2 to 7%/°C for resistivity	
Probes	HI 76302W3 for conductivity measurements; HI 3316D for resistivity measurements	
Battery Type / Life	(1) 9V / Approx 100 hours of use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions / Weight	164 x 76 x 45 mm (6.5 x 3.0 x 1.8") / 250 g (8.8 oz)	

ORDERING INFORMATION

HI 87314 is supplied with HI 76302W 4-ring conductivity probe, HI 3316D resistivity probe, 9V battery, calibration screwdriver and instructions.

PROBES

- HI 76302W** 4-ring conductivity probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable
- HI 3316D** Resistivity probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable

SOLUTIONS

- HI 7030L** 12880 µS/cm calibration solution, 500 mL
- HI 7031L** 1413 µS/cm calibration solution, 500 mL

- HI 7033L** 84 µS/cm calibration solution, 500 mL
- HI 7034L** 80000 µS/cm calibration solution, 500 mL
- HI 7035L** 111800 µS/cm calibration solution, 500 mL
- HI 7039L** 5000 µS/cm calibration solution, 500 mL
- HI 7061L** Cleaning solution, 500 mL

ACCESSORIES

- HI 710040** No-contact, inductive battery recharger
- HI 731326** Calibration screwdriver
- HI 76405** Electrode holder