

HI 87314

EC and Resistivity Meter



- Supplied with two probes
- Automatic probe recognition
- On-screen operation guide
- Automatic Temperature Compensation

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

For conductivity measurements, a one-point calibration is performed via a trimmer located in the battery compartment. The supplied probe does not require recalibration when switching from one range to another. The four-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%.

ORDERING INFORMATION

HI 87314 is supplied with HI 76302W conductivity probe, HI 3316D resistivity probe, HI 70030 calibration solution sachet, calibration screwdriver, battery, instructions and hard carrying case.

PROBES

HI 76302W Four ring conductivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable

HI 76302W/5 Four ring conductivity probe with internal temperature sensor, DIN connector and 5 m (16.4') cable

HI 3316D Resistivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable

SOLUTIONS

HI 7030L 12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7031L 1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7033L 84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7034L 80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7035L 111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7039L 5000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL

HI 7061L Cleaning solution, 500 mL

ACCESSORIES

HI 76405 Electrode holder

SPECIFICATIONS		HI 87314
Range	EC	199.9 $\mu\text{S}/\text{cm}$; 1999 $\mu\text{S}/\text{cm}$; 19.99 mS/cm ; 199.9 mS/cm
	Resistivity	0 to 19.90 $\text{M}\Omega\cdot\text{cm}$
Resolution	EC	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm
	Resistivity	0.10 $\text{M}\Omega\cdot\text{cm}$
Accuracy (@20°C)	EC	$\pm 1\%$ FS
	Resistivity	$\pm 2\%$ FS
Calibration	manual, one 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 76302W conductivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable; HI 3316D resistivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable	
Battery Type / Life	9V / approximately 100 hours of use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions	145 x 80 x 36 mm (5.7 x 3.1 x 1.4")	
Weight	230 g (8.1 oz.)	

For a complete list of Solutions, see the end of this section.