



HI87314

## EC and Resistivity Meter

- Automatic temperature compensation (ATC)
- One-point calibration
- Help feature
  - On-screen user guides
- Waterproof

The HI87314 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%/°C using a knob on the front panel.

For resistivity measurements, the meter is factory calibrated and, if necessary, calibration can be adjusted. The HI3316D 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%/°C.

Specifications	HI87314	
EC	Range	199.9 $\mu\text{S}/\text{cm}$ ; 1999 $\mu\text{S}/\text{cm}$ ; 19.99 $\text{mS}/\text{cm}$ ; 199.9 $\text{mS}/\text{cm}$
	Resolution	0.1 $\mu\text{S}/\text{cm}$ ; 1 $\mu\text{S}/\text{cm}$ ; 0.01 $\text{mS}/\text{cm}$ ; 0.1 $\text{mS}/\text{cm}$
	Accuracy (@25°C/77°F)	$\pm 1\%$ F.S.
Resistivity	Range	0 to 19.90 $\text{M}\Omega\cdot\text{cm}$
	Resolution	0.10 $\text{M}\Omega\cdot\text{cm}$
	Accuracy (@25°C/77°F)	$\pm 2\%$ F.S.
Additional Specifications	Calibration	manual, one point, for both EC and resistivity
	Temperature Compensation	automatic from 0 to 50°C with $\beta$ selectable from 0 to 2.5%/°C for EC and from 2 to 7%/°C for resistivity
	Probes	HI76302W conductivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable; HI3316D 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.)
Ordering Information	<b>HI87314</b> is supplied with HI76302W conductivity probe, HI3316D resistivity probe, HI70030 calibration solution sachet, calibration screwdriver, battery, instructions and hard carrying case.	
Accessories	<b>HI710007</b> blue shockproof rubber boot	
	<b>HI710008</b> orange shockproof rubber boot	