



## Kit for Direct Measurement of Soil Activity and Solutions Conductivity



HI 993310 is an instrument that has been specifically designed to address the question of correct and rapid measurement of conductivity in soil and liquids. It is supplied complete with two probes, HI 76305 with a stainless steel, conic tip for direct soil measurement, and HI 76304 for fertilizer enriched solutions.

HI 993310 measures both the soil conductivity in EC (mS/cm) as well as salt activity in grams per liter. The different scales can be selected through two keys on the front mask and two separate LED lights indicate which parameter is being tested. In addition, HI 993310 is equipped with an alarm LED that automatically turns on if the soil is too dry, or nutritive substances such as potassium or nitrogen are lacking. In the former case, demineralized water is to be added to the soil prior to proceeding with further tests. Direct soil measurement is facilitated by the small diameter, stainless steel, pointed HI 76305 probe. Once inserted into the ground, the user just needs to wait until the meter displays the value read by the auger-like probe.

### Specifications

		HI 993310
Range	EC	0.00 to 19.99 mS/cm
	activity	0.00 to 1.00
Resolution	EC	0.01 mS/cm
	activity	0.01
Accuracy (@20°C/68°F)	±2% F.S. (0 to 15.00 mS/cm; excluding probe error)	
Calibration	manual, 1 point	
Temperature Compensation	automatic, 0 to 50°C (32 to 122°F), $\beta=2\%/^{\circ}\text{C}$	
Probes	HI 76305, for direct soil measurements, with stainless steel body, conic tip, built-in temperature sensor and 1 m (3.3') cable (included) HI 76304, for EC measurements in solution, with plastic body, built-in temperature sensor and 1 m (3.3') cable (included)	
Battery Type / Life	1 x 9V / approx. 100 hours of continuous use	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Dimensions	185 x 82 x 52 mm (7.3 x 3.2 x 2.0")	
Weight	275 g (9.7 oz.)	

### Accessories

HI 76305	Stainless steel probe for direct soil measurement	HI 7051M	Soil preparation solution
HI 76304	EC probe for measurement of solution and soil sample	HI 721319	Ground auger
HI 7030L	12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710009	Shockproof rubber boot, blue
HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710010	Shockproof rubber boot, orange
		HI 710002	Soft carrying case
		HI 721313	Rugged carrying case

### Ordering Information

HI 993310 is supplied complete with HI 76304 EC probe for solutions, HI 76305 stainless steel probe for direct soil measurements, HI 7051M soil preparation solution, HI 721319 ground auger, battery, rugged carrying case and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For accessories, see section U.