

HI 993310

Direct Measurement Kit*for of Soil Activity and Solutions Conductivity***SPECIFICATIONS****HI 993310**

Range	EC	0.00 to 19.99 mS/cm
	Salt activity	0.00 to 1.00
Resolution	EC	0.01 mS/cm g/L
	Salt activity	0.01 g/L
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) 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)	

ORDERING INFORMATION

HI 993310 is supplied with HI 76304 plastic body, conductivity probe with built-in temperature sensor and 1 m (3.3') cable, HI 76305 probe with stainless steel conic tip for direct soil measurements with built-in temperature sensor and 1 m (3.3') cable, one 9V battery, instruction manual and rugged carrying case.

PROBES

- HI 76305** Stainless steel probe for direct soil measurement
- HI 76304** EC probe for measurement of solution and soil sample

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 7051M** Soil preparation solution

ACCESSORIES

- HI 721319** Ground auger
- HI 710009** Shockproof rubber boot, blue
- HI 710010** Shockproof rubber boot, orange
- HI 710002** Soft carrying case
- HI 721313** Rugged carrying case

Direct Measurements Right in the Field

HI 993310 is an instrument that has been specifically designed to address the need for correct and rapid conductivity measurements in soil and liquids. It is supplied with two probes: HI 76305 with a stainless steel, conical 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 (g/L). The different scales can be selected through two keys on the front panel and two separate LEDs 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. Demineralized water can 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 simply waits until the meter displays the value read.

- Supplied with 2 probes for measurement versatility
- Automatic Temperature Compensation
- Equipped with BEPS (Battery Error Prevention System)

Why this meter is so important

Conductivity is an important factor in greenhouses and hydroponics and is measured in soil as well as in fertilizer solutions.

Conductivity of soil is an excellent indication for the presence of nutritive salts. Soil conductivity is checked before and after fertilization to establish its effectiveness as well as ensuring that the soil is not too saline or damaging to the plant roots.

Conductivity of the irrigation water and fertilizer mixes is checked to make sure values are within an acceptable range and a correct fertilizer concentration strength is being applied.