



## Kit for Direct Soil pH Measurement with Special Electrode



### Specifications

		HI 99121
Range	pH	-2.00 to 16.00 pH
	Temperature	-5.0 to 105.0°C / 23.0 to 221.0°F
Resolution	pH	0.01 pH
	Temperature	0.1°C / 0.1°F
Accuracy (@20°C)	pH	±0.02 pH
	Temperature	±0.5°C (up to 60°C), ±1°C (outside) ±1.0°F (up to 140°F), ±2°F (outside)
pH Calibration	automatic, 1 or 2 point with 2 sets of memorized buffers (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)	
Temperature Compensation	automatic, -5 to 105°C (23 to 221°F)	
pH Electrode	HI 1292D, refillable, glass body, with internal temperature sensor, DIN connector and 1 m cable (included)	
Battery Type / Life	3 x 1.5V AA / approx. 1500 hours of continuous use; auto-off after 8 minutes of non-use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions / Weight	150 x 80 x 36 mm (5.9 x 3.1 x 1.4") / 210 g (7.4 oz.)	

### Accessories

HI 1292D	pH electrode for soil measurement, with internal temperature sensor and DIN connector	HI 7051M	Soil preparation solution, 230 mL bottle Ground auger
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 721319	
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 700663P	Cleaning solution for inorganic soil deposits, 20 mL sachet, 25 pcs.
HI 70004P	pH 4.01 buffer solution, 20 mL sachet, 25 pcs.	HI 700664P	Cleaning solution for organic soil deposits, 20 mL, 25 pcs
HI 70007P	pH 7.01 buffer solution, 20 mL sachet, 25 pcs.	HI 710007	Shockproof rubber boot, blue
HI 7071	Electrolyte solution, 30 mL bottle, 4 pcs.	HI 710008	Shockproof rubber boot, orange

The HI 99121 kit has been designed to address the question of correct and rapid measurement of pH directly in soil. Every item in this kit has been made to facilitate measurements in the field without compromising accuracy. With HI 99121 you can test the pH of soil directly or after preparation of a diluted sample. In order to measure the pH directly, the kit includes a plastic auger to perforate the ground.

The HI 1292D pH electrode has been designed for direct soil measurement. It has a conic, rugged tip and can be directly inserted in moist or soft soil. The electrode incorporates a temperature sensor right near the tip to enable it to measure and compensate for the temperature quickly.

For higher degrees of accuracy, or for stony ground where the electrode may be damaged, use the specially made HI 7051M soil preparation solution. This solution is included in the package to help you measure pH more precisely by diluting a sample of the soil in it.

The dual-level LCD shows the pH value from -2 to 16 with 0.01 resolution. It also displays the temperature on the secondary level at the same time. With a menu-driven custom microprocessor, the user is helped with clear prompts during operation and calibration.

### Ordering Information

HI 99121 is supplied complete with HI 1292D pH electrode, ground auger, HI 7051M soil preparation solution, pH 4 and pH 7 buffer sachets, HI 700663 and HI 700664 electrode cleaning solutions, batteries, rugged carrying case and instructions.

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