

# Direct Soil pH Measurement Kit

- Dedicated to soil pH measurement
- Specialized soil pH electrode
- Multi-level LCD display
- User friendly operation using only 2 buttons
- On-screen tutorial messages
- Automatic Temperature Compensation
- Automatic one or two point calibration
- BEPS  
(Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings
- Battery % displayed on startup
- Compact, heavy-duty, and waterproof

With the HI 99121 and HI 1292D direct soil pre-amplified pH and temperature probe, users can test both the pH of soil directly or after preparation of a diluted sample.

The HI 1292D features a conical, rugged tip that can be directly inserted in moist or soft soil. For harder soils, the kit includes a plastic auger to perforate the ground.

## ORDERING INFORMATION

HI 99121 is supplied with HI 1292D pH electrode, HI 721319 soil auger, HI 7051M soil preparation solution, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 700663 cleaning solution sachet for inorganic soil deposits, HI 700664 cleaning solution sachet for organic soil deposits, 100 mL plastic beaker, batteries, instructions and a hard carrying case.

## ELECTRODES

**HI 1292D** Glass body, pre-amplified pH electrode for soil measurement with internal temperature sensor, DIN connector and 1 m (3.3') cable

## SOLUTIONS

**HI 5004L** pH 4.01 buffer solution, 500 mL  
**HI 5007L** pH 7.01 buffer solution, 500 mL  
**HI 7051M** Soil preparation solution, 230 mL  
**HI 700661P** Electrode cleaning solution for agriculture, 20 mL sachets (25)  
**HI 700663P** Electrode cleaning solution for inorganic soil deposits, 20 mL sachets (25)  
**HI 700664P** Electrode cleaning solution for organic soil deposits, 20 mL sachets (25)  
**HI 70300L** Electrode storage solution, 500 mL

## ACCESSORIES

**HI 721319** Ground auger  
**HI 710023** Orange protective rubber boot  
**HI 710024** Blue protective rubber boot

## • Soil Preparation Solution

For higher degrees of accuracy, or for stony ground where the electrode may be damaged, use the included HI 7051M soil preparation solution



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), ±1.0°C (outside) / ±1.0°F (up to 140°F); ±2.0°F (outside)
pH Calibration		automatic one or two point calibration with two sets of memorized buffers (Standard 4.01, 7.01, 10.01 or NIST 4.01, 6.86, 9.18)
Temperature Compensation		automatic, -5.0 to 105.0°C (23 to 221°F)
Electrode		HI 1292D glass body, pre-amplified pH electrode for soil measurement with internal temperature sensor, DIN connector and 1 m (3.3') cable (included)
Battery Type / Life		1.5V AAA (3) / approximately 1200 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		152 x 58 x 30 mm (6.0 x 2.3 x 1.2")
Weight		205 g (7.2 oz.)

# NT (주)뉴텍계기

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