

# Go Direct!

No More  
Soil  
Slurries!



## HI 98331 Soil Test Direct Soil Conductivity and Temperature Tester

- Automatic Temperature Compensation
- Penetration probe
- Lightweight and portable

## HI 99121 Soil pH Measurement Kit for Direct Soil pH Measurement with Special Electrode

- Dual-level LCD
- Plastic auger for easy ground penetration



The **HI 98331** Soil Test is a special pocket tester designed to directly measure soil conductivity and temperature. With an incorporated sensor in the penetration probe, readings are automatically temperature compensated. Conductivity range can be calibrated at 1 point and is designed to be calibrated in liquid.

### Soil Penetration Probe



#### ORDERING INFORMATION:

**HI 98331** (Soil Test) is supplied with **HI 73331** penetration conductivity probe, (4) 1.5V batteries, calibration screwdriver and instructions.

#### ACCESSORIES

- HI 73331** Direct soil penetration conductivity probe  
**HI 7031M** 1413  $\mu\text{S}/\text{cm}$  (1.4  $\text{mS}/\text{cm}$ ) @25°C calibration solution, 230 mL  
**HI 7031L** 1413  $\mu\text{S}/\text{cm}$  (1.4  $\text{mS}/\text{cm}$ ) @25°C calibration solution, 460mL  
**HI 731326** Calibration screwdriver (20 pcs.)

SPECIFICATIONS	HI 98331
Range	Conductivity: 0.00 to 4.00 $\text{mS}/\text{cm}$ ( $\text{dS}/\text{m}$ ); Temperature: 0.0 to 50.0°C
Resolution	Conductivity: 0.01 $\text{mS}/\text{cm}$ ; Temperature: 0.1°C
Accuracy (@20°C/68°F)	Conductivity: $\pm 0.05$ $\text{mS}/\text{cm}$ (0.00 to 2.00 $\text{mS}/\text{cm}$ ), $\pm 0.30$ $\text{mS}/\text{cm}$ (2.00 to 4.00 $\text{mS}/\text{cm}$ ); Temperature: $\pm 1^\circ\text{C}$
Temp. Compensation	Automatic, Temperature coefficient ( $\beta$ ) fixed @ 2%/°C
Calibration	Manual 1 point
Probe	HI 73331 122 mm (4.5") penetration
Battery Type	4 x 1.5V
Environment	0 to 50°C
Dimensions	163 x 40 x 26 mm (6.4 x 1.6 x 1.0")
Weight	100 g (3.5 oz)

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.

**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

#### ACCESSORIES

- HI 7004P** pH 4.01 buffer solution, 20 mL sachet, 25 pcs.  
**HI 70007P** pH 7.01 buffer solution, 20 mL sachet, 25 pcs.  
**HI 7071** Electrolyte solution, 30 mL bottle, 4 pcs.  
**HI 7051M** Soil preparation solution, 230 mL bottle.  
**HI 700663P** Cleaning solution for inorganic soil deposits, 20 mL sachet, 25 pcs.  
**HI 700664P** Cleaning solution for organic soil deposits 20 mL, 25 pcs.  
**HI 710008** Shockproof rubber boot, orange.

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	$\pm 0.02$ pH
	Temperature	$\pm 0.5^\circ\text{C}$ (up to 60°C), $\pm 1^\circ\text{C}$ (outside) $\pm 1.0^\circ\text{F}$ (up to 140°F), $\pm 2^\circ\text{F}$ (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)	

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