

# Go Direct!

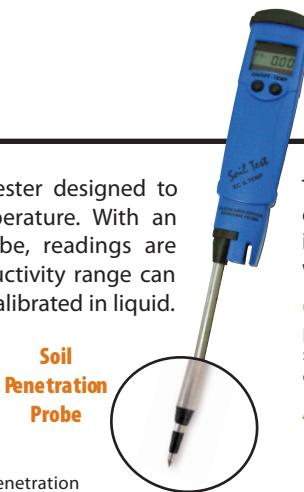
No More  
Soil  
Slurries!

## HI 98331 Soil Test

*Direct Soil Conductivity and Temperature Tester*



- Automatic Temperature Compensation
- Penetration probe
- Lightweight and portable



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.

#### 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 µS/cm (1.4 mS/cm) @25°C calibration solution, 230 mL  
**HI 7031L** 1413 µS/cm (1.4 mS/cm) @25°C calibration solution, 460mL  
**HI 731326** Calibration screwdriver (20 pcs.)

#### SPECIFICATIONS

#### HI 98331

Range	Conductivity: 0.00 to 4.00 mS/cm (dS/m); Temperature: 0.0 to 50.0°C
Resolution	Conductivity: 0.01 mS/cm; Temperature: 0.1°C
Accuracy (@20°C/68°F)	Conductivity: ±0.05 mS/cm (0.00 to 2.00 mS/cm), ±0.30 mS/cm (2.00 to 4.00 mS/cm); Temperature: ±1°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)

## 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 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

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

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)

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