

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 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 (β) 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 | ±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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