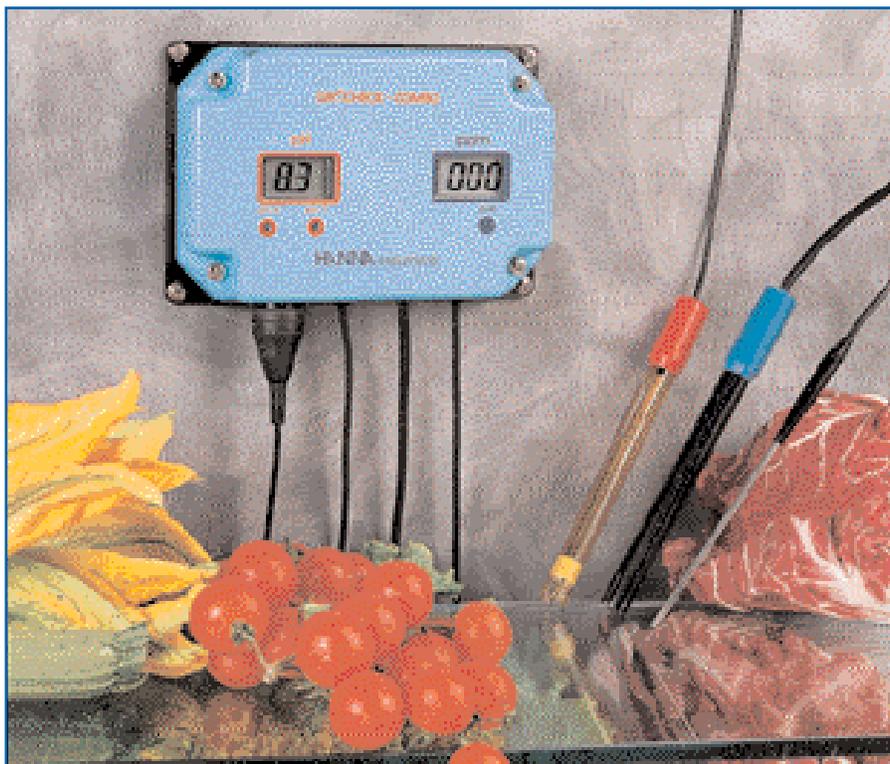




GRO'CHEK®

## pH/EC and pH/TDS Indicators for Agriculture



### Specifications

	HI 981404N	HI 981405N
Range	0.0 to 14.0 pH; 0 to 1990 ppm (mg/L)	0.0 to 14.0 pH; 0.00 to 9.99 mS/cm
Resolution	0.1 pH; 10 ppm (mg/L)	0.1 pH; 0.01 mS/cm
Accuracy (@20°C/68°F)	±0.2 pH; ±2% F.S.	±0.2 pH; ±2% F.S.
Calibration	manual, 1 or 2 points (pH); manual, 1 point (TDS)	manual, 1 or 2 points (pH); manual, 1 point (EC)
Temperature compensation	automatic 5 to 50°C (TDS only)	automatic 5 to 50°C (EC only)
EC/TDS conversion factor	0.7 ppm = 1 µS/cm	—
Probes (included)	HI 7634 (TDS probe) HI 1286 (pH electrode) and HI 1283 (matching pin)	HI 7632 (EC probe)
Input impedance	10 <sup>12</sup> Ohm	
Power supply	12 Vdc adapter (included)	
Environment	0 to 50°C (32 to 122°F); RH max 95%	
Dimensions	160 x 110 x 35 mm (6.3 x 4.3 x 1.4")	
Weight	300 g (10.6 oz.)	

### Accessories

HI 1286	pH electrode with BNC connector and 2 m (6.6') cable	HI 70442P	1500 ppm calibration solution, 20 mL sachet, 25 pcs
HI 1283	Stainless steel grounding probe with 2 m (6.6') cable*	HI 70039P	5000 µS/cm calibration solution, 20 mL sachet, 25 pcs
HI 7632	EC probe with 2 m (6.6') cable*	HI 70300M	Electrode storage solution, 230 mL bottle
HI 7634	TDS probe w/2 m (6.6') cable*	HI 7061M	Electrode cleaning solution, 230 mL bottle
HI 70000P	Electrode rinsing solution, 20 mL sachet, 25 pcs	HI 710005	115 Vac/12 Vdc adapter
HI 70004P	pH 4 calibration solution, 20 mL sachet, 25 pcs	HI 710006	230 Vac/12 Vdc adapter
HI 70007P	pH 7 calibration solution, 20 mL sachet, 25 pcs		

\*Replaceable by technical personnel only.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For EC/TDS probes, see section U.

HI 981404N and HI 981405N are ideal for agricultural, horticultural and hydroponics applications where pH and TDS or pH and EC levels need to be continuously monitored for optimal plantgrowth. HI 981404N and HI 981405N continuously monitor and display the pH and TDS or pH and EC values of a solution on an easy to read set of dual LCD's.

The HI 1286 gel filled pH electrode is replaceable and the BNC connector is protected behind a waterproof sheath. The unique design of the electrode guarantees greater clogging resistance in fertilizer solutions with high concentrations of phosphate, nitrate, etc. TDS measurements are performed using the 4-4-2 conversion factor of 0.7 so you do not need to convert the readings.

Both models are equipped with a grounding bar to ensure more accurate pH measurements and longer electrode life.

The HI 981404N and HI 981405N are compact and easy to install and use. This makes them ideal for all continuous monitoring applications.

### Ordering Information

HI 981404N is supplied complete with HI 1286 pH electrode, HI 7634 TDS probe, HI 1283 grounding bar, pH and TDS calibration solutions (20 mL each), screwdriver, 12 Vdc adapter and instructions.

HI 981405N is supplied complete with HI 1286 pH electrode, HI 7632 EC probe, HI 1283 grounding bar, pH and EC calibration solutions (20 mL each), screwdriver, 12 Vdc adapter and instructions.