



HI991404 · HI991405

# pH/EC/TDS and Temperature Monitors

- HOLD button to freeze readings on the display
- Waterproof
- Automatic temperature compensation (ATC)

These monitors continuously monitor the three most crucial nutrient parameters in hydroponic, greenhouse and horticultural applications: pH, EC/TDS and temperature.

At startup, these indicators perform a self-check to assure proper working condition. The stability indicator and HOLD function lets the user know when to take readings and freezes the reading on display for easy and accurate recording.

These instruments are supplied with a non-clogging double junction pH electrode, as well as a rugged conductivity probe that will withstand even the most aggressive environments. The 12 VDC adapter makes these instruments ideal for all continuous monitoring applications.

## Specifications

		HI991404	HI991405
pH	Range	0.0 to 14.0 pH	0.0 to 14.0 pH
	Resolution	0.1 pH	0.1 pH
	Accuracy	±0.1 pH	±0.1 pH
EC	Range	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
	Resolution	1 µS/cm	0.01 mS/cm
	Accuracy	±2% F.S.	±2% F.S.
TDS	Range	0 to 2000 mg/L (ppm)	0.00 to 10.00 g/L (ppt)
	Resolution	1 mg/L (ppm)	0.01 g/L (ppt)
	Accuracy	±2% F.S.	±2% F.S.
Temperature	Range	0.0 to 60.0°C / 32.0 to 122.0°F	0.0 to 60.0°C / 32.0 to 122.0°F
	Resolution	0.1°C (0.1°F)	0.1°C (0.1°F)
	Accuracy	±0.5°C (±1°F)	±0.5°C (±1°F)
Additional Specifications	Temperature Compensation	pH: automatic; EC/TDS: automatic with β adjustable from 0.0 to 2.4%/°C	
	pH Calibration	pH: automatic, one or two-point with auto-buffer recognition	
	EC/TDS Calibration	automatic, one-point at 1413 µS/cm or 1382 ppm	automatic, one-point at 12.88 mS/cm or 6.44 g/L (ppt)
	pH Electrode	HI1293 PEI body, pre-amplified pH electrode with 1/2" NPT pipe thread, DIN connector and 2 m (6.6') cable (included);	
	EC/TDS Probe	HI7630 conductivity probe with 1/2" NPT pipe thread and 2 m (6.6') cable (fixed)	
	TDS Conversion Factor	adjustable from 0.45 to 1.00	
	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
	Input Impedance	10 <sup>12</sup> Ohm	
	Power Supply	12 VDC adapter (included)	
	Dimensions / Weight (meter only)	160 x 105 x 31 mm (6.2 x 4.1 x 1.2) / 190 g (6.7 oz.)	
Ordering Information	<b>HI991404-01</b> (Combo Gro'Chek) (115V) and <b>HI991404-02</b> (Combo Gro'Chek) (230V) is supplied with HI1293D pH electrode, HI7630 EC probe (fixed), HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI70031 1413 µS/cm calibration solution sachet, 12 VDC adapter and instructions.		
	<b>HI991405-01</b> (Combo Gro'Chek) (115V) and <b>HI991405-02</b> (Combo Gro'Chek) (230V) is supplied with HI1293D pH electrode, HI7630 EC probe (fixed), HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI70030 1288 mS/cm calibration solution sachet, 12 VDC adapter and instructions.		

