

## pH/pH-mV/ORP and Temperature Meters



- **Sensor Check™**
  - (HI991003) Allows users to check the pH electrode status at any time
- **Automatic Temperature Compensation (ATC)**
- **Two-point calibration**
  - Up to two points automatic calibration
- **Battery Error Prevention System (BEPS)**
  - Alerts the user of low battery power that could adversely affect readings
- **Waterproof**
  - Compact, heavy-duty, and waterproof protected casing
- **Battery life indicator**
  - Battery percentage displayed on startup
- **HELP feature**
  - Tutorial messages displayed on LCD

HI991001, HI991002 and HI991003 are ideal for plating baths, wastewater, swimming pool and spa water quality and environmental applications.

HI991003 is a portable pH/pH-mV/ORP and temperature meter with our unique Sensor Check™ feature that allows the user to determine the electrode status at any time. HI991002 measures pH/ORP and temperature while the HI991001 measures pH and temperature.

The HI1296D pH/temperature and HI1297D pH/ORP/temperature probes feature an easy to clean recessed tip that prevents solids in solutions from collecting on the sensor. The titanium body of these probes function as a potential matching pin for increased stability of readings and extended sensor life.



- **Pre-amplified pH electrodes**
  - The HI1297D pH/ORP electrode and HI1296D pH electrode have an internal temperature sensor and also contain a pre-amplifier to render measurements impervious to noise and electrical interferences.

### Specifications

	HI991001	HI991002	HI991003	
pH*	Range	-2.00 to 16.00 pH	-2.00 to 16.00 pH	-2.00 to 16.00 pH
	Resolution	0.01 pH	0.01 pH	0.01 pH
	Accuracy	±0.02 pH	±0.02 pH	±0.02 pH
	Calibration	automatic one or two-point calibration with two sets of standard buffers available (standard 4.01, 7.01, 10.01 or NIST 4.01, 6.86, 9.18)		
mV	Range	-	±1999 mV	±1999 mV
	Resolution	-	1 mV	1 mV
	Accuracy	-	±2 mV	±2 mV
pH-mV	Range	-	-	±825 mV (pH-mV)
	Resolution	-	-	1 mV
	Accuracy	-	-	±1 mV
Temperature*	Range	-5.0 to 105.0°C; 23.0 to 221.0°F		
	Resolution	0.1°C; 0.1°F		
	Accuracy	±0.5°C (up to 60°C), ±1.0°C (outside); ±1.0°F (up to 140°F), ±2.0°F (outside)		
Additional Specifications	pH Electrode (HI991003 & HI991002)	HI1297D pre-amplified pH/ORP probe with internal temperature sensor, DIN connector and 1 m (3.3') cable (included)		
	pH Electrode (HI991001)	HI1296D pre-amplified pH probe with internal temperature sensor, DIN connector and 1 m (3.3') cable (included)		
	Temperature Compensation	automatic, -5.0 to 105.0°C (23.0 to 221.0°F)		
	Battery Type / Life	1.5V (3) AAA / approximately 1200 hours of continuous use.		
	Auto-off	auto-off after eight minutes of non-use		
	Environment	0 to 50°C (32 to 122°F); RH max. 100%		
	Dimensions / Weight	152 x 58 x 30 mm (6.0 x 2.3 x 1.2") / 205 g (7.2 oz.)		
Ordering Information	<b>HI991001</b> is supplied with HI1296D pH/ORP probe with internal temperature sensor, HI70004 pH 4.01 buffer sachet, HI70007 pH 7.01 buffer sachet, HI700601 electrode cleaning solution sachet (2), batteries, instructions and rugged carrying case.			
	<b>HI991002</b> and <b>HI991003</b> are supplied with HI1297D pH/ORP probe with internal temperature sensor, HI70004 pH 4.01 buffer sachet, HI70007 pH 7.01 buffer sachet, HI700601 electrode cleaning solution sachet (2), batteries, instructions and rugged carrying case.			

\* Limits will be reduced to actual sensor limits

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