



HI991001 • HI991002 • HI991003 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 HI 991001 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.

* Limits will be reduced to actual sensor limits

HANNA
instruments

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	HI991001 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.			
	HI991002 and HI991003 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.			

pH and ORP solutions begin on page 3.100