

# HI 991001 • HI 991002



## Waterproof pH/mV Meters with Extended Range

The HI 991001 and HI 991002 meters from HANNA instruments® offer IP 67 waterproof protection in a compact casing.

The included electrode has a built-in temperature sensor and amplifier, to render your measurements impervious to noise and electrical interference.

The large display shows readings in an extended range from -2.00 to 16.00 pH and simultaneously shows temperature from -5.0 to 105.0 °C or 23 to 221 °F.

HI 991002 also measures ORP in the ±1999 mV range.

These meters have a stability indicator and hold feature that prompts you when to take the reading & freezes the display for easy and accurate recording. The large display also has graphic symbols to guide you through all operations.

The battery life of the meters guarantee over 1500 hours of continuous use. At startup, they perform a self-check and then display the percentage of the remaining battery level to assure proper working condition.

Calibration is performed automatically at 1 or 2 points using standard or NIST buffers.

### Specifications

		HI 991001	HI 991002
Range	pH	-2.00 to 16.00 pH	-2.00 to 16.00
	mV	—	±1999 mV
Resolution	pH	0.01 pH	0.01 pH
	mV	—	1 mV
Accuracy (@20°C)	pH	±0.02 pH	±0.02 pH
	mV	—	±2 mV
Temperature	Temperature	±0.5 (up to 60°C); ±1°C (outside)	±0.5 (up to 60°C); ±1°C (outside)
	Temperature	±1°F (up to 140°F); ±2°F (outside)	±1°F (up to 140°F); ±2°F (outside)
pH Calibration		automatic, 1 or 2 point with 2 sets of memorized buffer values (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), for pH readings	
Electrode		HI 1296D amplified pH electrode with temperature sensor, DIN connector, 1 m cable (included)	
Battery Type		3 x 1.5V AA	
Battery Life		approx. 2000 hours of continuous use	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.)	

### Accessories

HI 1296D	Combination pH electrode with internal temperature sensor and amplifier, DIN connector and 1 m cable	HI 7007L	pH 7.01 buffer solution, 500 mL bottle
HI 1297D	Combination pH/ORP electrode with internal temperature sensor and amplifier, DIN connector and 1 m cable	HI 7009L	pH 9.18 buffer solution, 500 mL bottle
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 7010L	pH 10.01 buffer solution, 500 mL bottle
HI 7006L	pH 6.86 buffer solution, 500 mL bottle	HI 70300L	Electrode storage solution, 500 mL bottle
		HI 710007	Shockproof rubber boot, blue
		HI 710008	Shockproof rubber boot, orange

### Ordering Information

HI 991001 is supplied complete with HI 1296D pH electrode with internal temperature sensor, pH 4 and pH 7 buffer sachets, HI 700661 electrode cleaning solution (2 x 20 mL), batteries, rugged carrying case and instructions.

HI 991002 is supplied complete with HI 1296D pH electrode with internal temperature sensor, pH 4 and pH 7 buffer sachets, HI 700661 electrode cleaning solution (2 x 20 mL), batteries, rugged carrying case and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For pH and ORP electrodes, see section E. For accessories, see section U.