

# HI 99141



## Waterproof pH Meter for Boilers and Cooling Towers

HI 99141 is a waterproof, portable pH/temperature meter, specifically designed for boiler & cooling tower applications.

HI 72911 double-junction pH electrode (included) has an unbreakable titanium body and a flat tip. The electrode also features an annular Teflon® junction for maximum surface contact, giving increased response and stability. The titanium cage of the probe functions as a shield and adds to the sensor's life. The flat tip is easy to clean and prevents solids in solution from collecting on the sensor. This advanced electrode also contains an integral temperature sensor and a mini amplifier to boost the electrode signal, eliminating the effects of noise and interference. The meter reads from -2 to 16 pH, while simultaneously showing the temperature in °C or °F.

Graphic icons guide operations and an instability indicator with hold feature determines when to freeze the reading for easy record keeping.

Calibration is performed automatically at one or two points with standard or NIST calibration buffers.

Battery life is over 1500 hours and at startup, the LCD shows the remaining battery power. In addition, BEPS (Battery Error Prevention System) prevents bad readings due to low voltage and an auto-off period of 8 minutes saves battery power.

### Specifications

		HI 99141
Range	pH	-2.00 to 16.00 pH
	Temperature	-5.0 to 105.0°C / 23.0 to 221.0°F
Resolution	pH	0.01 pH
	Temperature	0.1°C / 0.1°F
Accuracy (@20°C)	pH	±0.02 pH
	Temperature	±0.5°C (up to 60°C), ±1°C (outside) ±1.0°F (up to 140°F), ±2°F (outside)
pH Calibration	automatic, 1 or 2 point with 2 sets of memorized buffers (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)	
pH Electrode	HI 72911, amplified, with titanium cage and internal temperature sensor (included)	
Battery Type / Life	3 x 1.5V AA / 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 72911	pH electrode, double junction, with titanium cage	HI 70010P	pH 10.01 buffer solution, 20 mL sachet, 25 pcs.
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 70300L	Electrode storage solution, 500 mL bottle
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 700661	Electrode cleaning solution, 20 mL sachet, 25 pcs.
HI 7010L	pH 10.01 buffer solution, 500 mL bottle	HI 710007	Shockproof rubber boot, blue
HI 70004P	pH 4.01 buffer solution, 20 mL sachet, 25 pcs.	HI 710008	Shockproof rubber boot, orange
HI 70007P	pH 7.01 buffer solution, 20 mL sachet, 25 pcs.		

### Ordering Information

HI 99141 is supplied complete with HI 72911 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.