



HI 99141

pH METER FOR BOILERS AND COOLING TOWERS



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HI 99141 is a waterproof, portable pH/temperature meter supplied with a flat tip probe specifically designed for boiler and cooling tower applications.

The HI 72911D pre-amplified double junction pH probe features a recessed flat tip that is easy to clean and prevents solids in solutions from collecting on the sensor. The titanium body of the HI 72911D functions as a potential matching pin for increased stability of readings and extended sensor life.

The HI 99141 easily fits in the palm of your hand and the bottom probe connection ensures the electrode cable doesn't get in your way. The large, multi-level LCD displays the primary reading, temperature and calibration guides simultaneously.

FEATURES

- **Flat-tipped, pre-amplified pH probe with titanium body**
- **Waterproof**
- **Multi-level LCD display**
The meters display the current measurement simultaneously with the current temperature. A quick-guide is also displayed to aid users in instrument operation
- **HOLD**
The Hold button freezes readings on the display so you can easily record readings manually
- **Automatic Temperature Compensation**
- **Automatic 1 or 2 point calibration**
- **BEPS**
BEPS (Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings
- **Battery % displayed on startup.**
- **Heavy-duty**
The enclosure of these waterproof meters are made of tough ABS plastic and the electrodes feature titanium bodies
- **Easy to clean and keep clean**



B.E.P.S. ±
Battery Error
Prevention System

2 YEAR
WARRANTY

ISO 9001:2000
CERTIFIED
COMPANY

WE DESIGN, MANUFACTURE, SUPPLY AND SUPPORT ALL OF OUR PRODUCTS.

THAT'S 360° VALUE

Over the past 30 years, **HANNA** has never failed to design fresh and innovative products and the new HI 99141 is no exception. We are excited to introduce such high accuracy and ease of use in a compact, modern design that fits right in your hand.

HANNA is the largest family-owned manufacturer of analytical instrumentation in the world. The HI 99141 is manufactured in our European state-of-the-art ISO 9001:2000 production facility and is CE compliant to EN 61326-1 and EN 61010-1 standards.

When you buy a **HANNA** product, you're not only buying the best value for your money, but you're also adding the benefit of **HANNA**'s unsurpassed customer service and post-sale technical support.

Titanium Body pH Electrode & Starter Solutions Included!



HI 72911D PRE-AMPLIFIED pH ELECTRODE

HI 72911D double-junction pH electrode (included) has a flat tip sensor and a titanium body. The flat tip sensor is easy to clean and prevents solids in solutions from collecting on the surface. This probe features a large annular PTFE junction for maximum surface contact which provides increased response and stability. This advanced electrode also contains an integral temperature sensor and a pre-amplifier to reduce electrode noise and interference.

- **Titanium Probe Body**

The HI 72911D is encased in a titanium casing for maximum protection and shielding.

- **Easy to Clean**

The flat tip sensor is easy to clean and keep clean by design.



Shown with HI 710020 protective boot (optional)

- **Protective Rubber Boot**

The optional protective rubber boot helps protect your meter

SPECIFICATIONS		HI 99141
Range	pH	-2.00 to 16.00 pH
	Temp.	-5.0 to 105.0°C; 23.0 to 221.0°F
Resolution	pH	0.01 pH
	Temp.	0.1°C/0.1°F
Accuracy (@20°C)	pH	±0.02 pH
	Temp.	±0.5°C up to 60°C; ±1°C outside; ±1°F up to 140°F; ±2°F outside
Temperature Compensation		Automatic
pH Calibration		Automatic 1 or 2 point calibration with 2 sets of memorized buffers (4.01, 7.01, 10.01 or 4.01, 6.86, 9.18)
Electrode (included)		HI 72911D pre-amplified electrode with titanium cage with internal temperature sensor (included)
Battery Type		(3) 1.2V AAA
Battery Life		Approximately 200 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		150 x 58 x 29 mm (5.9 x 2.8 x 1.1")
Weight		205g (7.2 oz.)

ORDERING INFORMATION

HI 99141 is supplied with HI 72911D pH/temperature electrode with DIN connector and 1 m (3.3') cable, starter set of electrode calibration and cleaning solution sachets, (3) 1.2V AAA batteries, and instructions.

ELECTRODES

HI 72911D pH probe, double junction, with titanium body

SOLUTIONS

- HI 5004L** pH 4.01 buffer solution, 500 mL
- HI 5007L** pH 7.01 buffer solution, 500 mL
- HI 5010L** pH 10.01 buffer solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL
- HI 70300L** Electrode storage solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL
- HI 700670P** Electrode cleaning solution for salt deposits, 20 mL sachets (25)
- HI 700671P** Electrode cleaning and disinfection solution for algae, fungi and bacteria, 20 mL sachets (25)

ACCESSORIES

- HI 710020** Orange protective rubber boot
- HI 710021** Blue protective rubber boot

Recommended Operating Temperature
20 to 40°C (66 to 104°F)



SPECIFICATIONS	HI 72911D
Description	pH electrode
Reference	Double, Ag/AgCl
Junction / Flow Rate	PTFE
Electrolyte	Polymer
Max Pressure	3 bar
Range	pH: 0 to 13; T: 0 to 80°C (32 to 176°F)
Tip /Shape	Flat
Temperature Sensor	Yes
Amplifier	Yes
Body Material	Titanium
Connection/Cable	DIN/7-pole; 1 m (3.3')
Recommended Use	Cooling towers, boilers

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instruments
With Great Products, Come Great Results™