

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

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|-----------|---|-----------|--|
| 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.