



HI99141

Portable pH Meter

for Boiler and Cooling Towers

- Simultaneous pH and temperature measurements on a large dual-line LCD display
- User-friendly two button design
- Application specific probe
- Durable IP67 waterproof casing
- Watertight probe connection
- Probe condition indicator
- Automatic pH calibration at one or two points within two memorized buffer sets (standard or NIST)
- On-screen calibration tags
- mV measurement for electrode check
- Selectable temperature unit (°C or °F)
- Auto-off function
- Battery life indication and low battery detection

The HI99141 pH meter is a portable, lightweight meter with two button operation that is simple to use. It is delivered with a rugged pH electrode protected by a titanium body that is perfect for the pH measurement of treated boiler, feed water, and steam condensate.

HI729113 is a rugged double junction pH electrode with a flat pH sensor and titanium body. The electrode has a peripheral Teflon® junction for maximum surface contact and flat pH tip is easy to clean and prevents solids from collecting on the sensor. Chemicals used to minimize scale, corrosion and foaming require an optimum pH. Measuring and controlling water quality helps minimize these effects.

A built-in temperature sensor allows simultaneous temperature compensated pH and temperature readings and a built-in pH sensor preamplifier provides measurements impervious to noise and electrical interferences.

- Optional shockproof silicon rubber boot
- Specially designed to protect your instrument from damage or impact

HI710028 Orange
HI710029 Blue
HI710030 Green



Specifications

HI99141

| | | |
|---------------------------|---|---|
| pH | Range* | -2.00 to 16.00 pH / -2.0 to 16.0 pH |
| | Resolution | 0.01 pH / 0.1 pH |
| | Accuracy (@25°C/77°F) | ±0.02 pH / ±0.1 pH |
| | Calibration | Automatic, one or two-point selectable bufferset standard: 4.01; 7.01; 10.01 or NIST: 4.01; 6.86; 9.18 |
| pH-mV | Range* | ±825 mV |
| | Resolution | 1 mV |
| | Accuracy (@25°C/77°F) | ±1 mV |
| Temperature | Range* | -5.0 to 105.0°C; 23.0 to 221.0°F |
| | Resolution | 0.1°C; 0.1°F |
| | Accuracy (@25°C/77°F) | ±0.5°C (up to 60°C), ±1.0°C (outside); ±1.0°F (up to 140°F), ±2.0°F (outside) |
| Additional Specifications | Temperature Compensation | automatic, from -5.0 to 105.0°C (23.0 to 221.0°F) |
| | Probe (included) | HI729113 preamplified pH probe with built-in temperature sensor and titanium cage working as matching pin, DIN connector with 1m (3.3') cable |
| | Battery Type / Life | 1.5V AAA (3) approx. 1400 hours of continuous use |
| | Auto-off | user selectable: after 8 min, 60 min or disabled |
| | Environment | 0 to 50°C (32 to 122°F); RH max. 100% |
| | Meter Dimensions | 154 x 63 x 30 mm (6.1 x 2.5 x 1.2") |
| | Meter Mass (with batteries) | 196 g (6.91 oz.) |
| | Case Ingress Protection Rating | IP67 |
| Ordering Information | <p>HI99141 is supplied with HI729113 preamplified pH probe with built-in temperature sensor and matching pin, Quick Connect DIN connector with 1m (3.3') cable, pH 4.01 and 7.01 buffer sachets, HI700601 electrode cleaning solution sachets (2), 100 mL beaker, 1.5V AAA batteries (3), calibration certificate of meter, calibration certificate of probe, instruction manual, and HI710142 rugged carrying case.</p> | |

* the HI729113 is limited to be used from 0 to 13 pH and from 0 to 80°C temperature (32 to 176°F).

pH solutions begin on page 2.164; electrode cleaning solutions begin on page 2.178

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