

## pH/pH-mV/ORP and Temperature Meters



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

HI710028 Orange

HI710029 Blue

HI710030 Green

- Simultaneous pH, ORP and temperature measurements on a large three-line LCD display (HI991003)
- Simultaneous pH and temperature measurements on a large dual-line LCD display (HI991001)
- 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 of pH measurement for electrode check
- Selectable temperature unit (°C or °F)
- Auto-off function
- Battery life indication and low battery detection

### Specifications

|                           | HI991001   | HI991003   |
|---------------------------|--|--|
| 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 |
| ORP                       | Range*   | – ±1999 mV   |
|                           | Resolution   | – 1 mV   |
|                           | Accuracy (@25°C/77°F)  | – ±2 mV  |
| pH-mV                     | Range*   | ±825 mV ±825 mV  |
|                           | Resolution   | 1 mV 1 mV  |
|                           | Accuracy (@25°C/77°F)  | ±1 mV ±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)   | HI12963 preamplified pH and temperature probe with titanium body, DIN connector and 1 m (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><b>HI991001</b> is supplied with HI12963 pH/temperature probe with titanium body and Quick Connect DIN connector with 1m (3.3') cable, pH 4.01 and 7.01 Buffer sachets, HI700601 electrode cleaning solution sachet (2), 100 mL beaker, 1.5V AAA batteries (3), calibration certificate of meter, calibration certificate of probe, instruction manual and rugged carrying case.</p>              |  |
|                           | <p><b>HI991003</b> is supplied with HI12973 pH/ORP/temperature probe with titanium body and Quick Connect DIN connector with 1m (3.3') cable, pH 4.01 and 7.01 Buffer sachets, HI700601 electrode cleaning solution sachet (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> |  |

\* HI12963 and HI12973 is limited to be used from 0 to 13 pH and from 0 to 80 °C temperature (32 to 176 °F).

The HI991003 is a light weight, portable pH/ORP/temperature meter for pH and ORP measurements encountered in recreational waters (swimming pools and spas), plating baths, water treatment, manufacturing and environmental testing applications. The meter is supplied with the HI12973 rugged probe protected with a titanium body specially designed for use on this meter.

HI991001 is a durable, portable, pH and temperature meter used for most pH measurements encountered in manufacturing and environmental testing protocols. The meter is provided with the HI12963 rugged titanium bodied electrode with built-in temperature sensor for temperature compensated pH and temperature readings.

Should the junction become fouled on these electrodes, simply pull out the cloth and trim off the fouled portion.