portable



HI97745

Free and Total Chlorine, Hardness, Iron Low Range, and pH Portable Photometer

• Advanced LED optical system

- Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
- LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.
- CAL Check™
 - Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.
- On-screen tutorial mode with animations
 - Guides users step-by-step through the measurement process
- Waterproof and floating IP67 case
- Unit of measure is displayed along with reading
- Built-in timer
 - Built-in reaction timer that ensures consistency between tests.

- Error messages on display
 - Alerts to problems including no cap, high zero, and standard too low
- GLP data
 - · Displays the last calibration date.
- Auto logging
- Battery status indicator
- Auto-shut off

Significance of Use

Chlorine and pH are two of the most closely monitored parameters in water quality tests. Hardness is also an important parameter, attentively regulated to reduce waste or ensure proper functioning of equipment. Iron can cause an unpleasant taste or stain kitchenware or laundry.

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| Specifications | | HI97745 Free and Total chlorine, Total Hardness, Iron Low Range and pH |
|-----------------------------------|---|---|
| рН | Range | 6.5 to 8.5 pH |
| | Resolution | 0.1 pH |
| | Accuracy @25°C (77°F) | ±0.1 pH |
| | Method | adaptation of the phenol red method |
| Chlorine, Free Chlorine, Total | Range | 0.00 to 5.00 mg/L (ppm) (as Cl ₂) |
| | Resolution | 0.01 mg/L |
| | Accuracy @25°C (77°F) | ±0.03 mg/L ±3% of reading |
| | Method | adaptation of the USEPA method and Standard Method 4500-CI G method |
| Total Hardness | Range | 0.00 to 4.70 mg/L (ppm) (as CaCO₃) |
| | Resolution | 0.01 mg/L |
| | Accuracy @25°C (77°F) | ±0.11 mg/L ±5% of reading |
| | Method | adaptation of the Standard Methods for the examination of Water and Wastewater, 18th ed., calmagite colorimetric method |
| Iron, Low Range | Range | 0 to 1.60 mg/L (ppm) (as Fe) |
| | Resolution | 0.01 mg/L |
| | Accuracy @25°C (77°F) | ±0.01 mg/L ±8% of reading |
| | Method | adaptation of the TPTZ method method |
| Measurement System | Light Source | light emitting diode |
| | Bandpass filter | 525 nm |
| | Bandpass filter bandwidth | 8 nm |
| | Bandpass filter wavelength accuracy | ±1.0 nm |
| | Light Detector | silicon photocell |
| | Cuvette type | round 24.6 mm diameter (22 mm inside) |
| Additional Specifications | Auto logging | 50 readings |
| | Display | 128 x 64 pixel B/W LCD with backlight |
| | Auto-off | after 15 minutes of inactivity (30 minutes before a READ measurement) |
| | Battery type / Life | alkaline 1.5 V AA (3) / > 800 measurements (without backlight) |
| | Environment | 0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceable |
| | Dimensions | 142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0") |
| | Weight | 380 g (13.4 oz.) |
| Ordering Information | HI97745 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), instrument quality certificate, and instruction manual. CAL Check standards and testing reagents sold separately | |
| Reagents and Standards | | HI97701-11 CAL Check standard cuvettes for free and total chlorine |
| | HI97745 | HI93701-01 free chlorine reagents for 100 tests |
| | | HI93701-03 free chlorine reagents for 300 tests |
| | | HI97710-11 CAL Check standard cuvettes for pH |
| | | HI93710-01 pH reagents for 100 tests |
| | | HI93710-03 pH reagents for 300 tests |
| | | HI93711-01 total chlorine reagents for 100 tests |
| | | HI93711-03 total chlorine reagents for 300 tests |
| | | HI97719-11 CAL Check standard cuvettes for hardness |
| | | HI93719-01 total hardness reagents for 100 tests |
| | | HI93719-03 total hardness reagents for 300 tests |
| | | HI97746-11 CAL Check standard cuvettes for iron |
| | | HI93746-01 iron reagents for 50 tests |
| | | HI93746-03 iron reagents for 150 tests |
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