

HI97716

Bromine 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

In some areas around the world, bromine is replacing other more common disinfectants, such as chlorine. Due to its stability at higher temperatures and higher pH levels, bromine is most often used in sanitization of pools and spas, and cooling towers.

| Specifications | HI97716 Bromine | |
|---------------------------|-------------------------------------|--|
| Measurement | Range | 0.00 to 10.00 mg/L (ppm) (as Br ₂) |
| | Resolution | 0.01 mg/L |
| | Accuracy @25°C (77°F) | ±0.08 mg/L ± 3% of reading |
| | Method | adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, DPD 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 |
| Additional Specifications | Cuvette type | round 24.6 mm diameter (22 mm inside) |
| | 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.) | |

HI97716 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

Ordering Information

HI97716C includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, CAL Check standard certificate, instrument quality certificate, instruction manual, and HI7101412 rigid carrying case.

Reagents sold separately

| Reagents and Standards | HI97716 | |
|------------------------|---------|---|
| | | HI97716-11 CAL Check standard cuvettes for bromine |
| | | HI93716-01 bromine reagents for 100 tests |
| | | HI93716-03 bromine reagents for 300 tests |