

HI96707 · HI96708

Nitrite Portable Photometers

- **CAL Check**
 - Allows for performance verification and calibration of the meter using NIST traceable standards
- **GLP**
 - Review of the last calibration date
- **Auto-shut off**
- **Battery status indicator**
- **Built-in timer**
 - Display of time remaining before a measurement is taken. Ensures that all readings are taken at the appropriate reaction intervals for the test being performed.
- **Error messages**
 - Messages on display alerting to problems including no cap, high zero, and standard too low
- **Cooling lamp indicator**
- **Units of measure**
 - Appropriate unit of measure is displayed along with reading



The HI96707 and HI96708 portable photometers are for the measurement of nitrite in a wide variety of water samples. Hanna's portable photometers feature an advanced optical system; the combination of a special tungsten lamp, a narrow band interference filter, and silicon photodetector ensure accurate photometric readings every time. The Hanna exclusive CAL Check™ feature utilizes ready-made, NIST traceable standards to verify both meter validation and calibration. The exclusive cuvette locking system ensures that the cuvette is inserted into the measurement cell in the same position every time to maintain a consistent path length.

Significance of Use

Nitrites can be harmful to aquatic organisms even in low concentrations and for this reason, they are closely monitored in aquaculture facilities. In cooling towers, however, an adequate amount of nitrites is necessary to prevent corrosion. In high concentrations, they can be harmful to the environment and to humans. They are, therefore, normally monitored to verify the quality of water for domestic use, as well as lakes and ponds.

Nitrites are an intermediate product in the nitrogen cycle and are produced by ammonia oxidation with water, or even originate in industrial waste directly. They must not be present in drinking water.

Specifications	HI96707 Nitrite, LR	HI96708 Nitrite, HR	
Range	0.000 to 0.600 mg/L (ppm)	0 to 150 mg/L (ppm)	
Resolution	0.001 mg/L	1 mg/L	
Accuracy @ 25°C (77°F)	±0.020 mg/L ±4% of reading	±4 mg/L ±4% of reading	
Light Source	tungsten lamp		
Light Detector	silicon photocell with narrow band interference filter @ 525 nm	silicon photocell with narrow band interference filter @ 575 nm	
Power Supply	9V battery		
Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder		
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing		
Dimensions	193 x 104 x 69 mm (7.6 x 4.1 x 2.7")		
Weight	360 g (12.7 oz.)		
Method	adaptation of an EPA approved diazotization method	adaptation of the Ferrous Sulfate method	
Ordering Information	<p>HI96707 and HI96708 are supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.</p> <p>CAL Check™ standards and testing reagents sold separately</p> <p>HI96707C and HI96708C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 9V battery, scissors, cuvette wiping cloth, instrument quality certificate, Nist traceable, instruction manual and rigid carrying case.</p> <p>Reagents sold separately</p>		
Reagents and Standards	HI96707	HI96707-11	CAL Check™ standard cuvettes
		HI93707-01	powder reagents for 100 tests
		HI93707-03	powder reagents for 300 tests
	HI96708	HI96708-11	CAL Check™ standard cuvettes
		HI93708-01	reagents for 100 tests
		HI93708-03	reagents for 300 tests