HI96700 · HI96715 · HI96733

Ammonia Portable Photometers

CAL Check

 Allows for performance verification and calibration of the meter using NIST traceable standards.

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Review of the last calibration date.

· Auto-shut off

 Automatic shut off after 10 minutes of non-use when the meter is in measurement mode. Prevents wastage of batteries in the event the meter is accidentally left on.

• Battery status indicator

 Indicates the amount of battery life left.

· 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

To maintain the desirable wavelength to be used for absorbance, it is necessary to ensure components are not overheated from the heat generated by the tungsten lamp. Each photometer is designed to allow a minimal amount of time for components to cool. The cooling lamp indicator is displayed prior to a reading being taken.

• Units of measure

 Appropriate unit of measure is displayed along with reading.

These portable photometers are for the measurement of ammonia nitrogen in freshwater samples.

Significance of Use

Present naturally in surface and was tewaters, ammonia mainly results from the deamination of organic nitrogen-containing compounds and hydrolysis of urea. Ammonia may also be present from water treatment processes that utilize chloramines for disinfection, where ammonia is added to the water to react with chlorine. Ammonia is less likely to appear in groundwater due to adsorption to soil particles.



Specifications	HI96700 Ammonia LR		HI96715 Ammonia MR	HI96733 Ammonia HR	
Range	0.00 to 3.00 mg/L (ppm)		0.00 to 9.99 mg/L (ppm)	0.0 to 50.0 mg/L (ppm)	
	(as NH₃−N)		(as NH ₃ -N)	(as NH ₄ ⁺)	
Resolution	0.01 mg/L		0.01 mg/L	0.01 mg/L	
Accuracy @ 25°C (77°F)	±0.04 mg/L ±4% of reading		±0.05 mg/L ±5% of reading	$\pm 0.5 \text{mg/L} \pm 5\%$ of reading	
Light Source	tungsten lamp		light emitting diode	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 420 nm		silicon photocell with narrow band interference filter @ 466	silicon photocell with narrow band interference filter @ 420 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	360g (12.7 oz.)				
Method	adaptation of the ASTM Manual of Water and Environmental Technology, D1426-93, Nessler method				
Ordering Information	HI96700, HI96715 and HI96733 are supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately				
	HI96700C, HI96715C and HI96733C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately				
Reagents and Standards	HI96700	HI96700-11	CAL Check™	standard cuvettes	
		HI93700-01	reagents for	100 tests (N-NH ₃ LR)	
		HI93700-03	reagents for	r 300 tests (N-NH ₃ LR)	
	HI96715	HI96715-11	CAL Check™	L Check™ standard cuvettes	
		HI93715-01	reagents for	reagents for 100 tests (N-NH ₃ MR)	
		HI93715-03	reagents for	300 tests (N-NH ₃ MR)	
	HI96733	HI96733-11	CAL Check™	standard cuvettes	
		HI93733-01	reagents for	100 tests (NH ₄ ⁺ HR)	
		HI93733-03	reagents for	300 tests (NH ₄ HR)	