



Ammonia Photometers

Ammonia is often an excellent indication of the presence of animal or plant microbiological decay. It is tested in fish farms (fresh and salt water tanks) due to the damaging effects of its toxic nature. Its presence in rivers and reservoirs normally points to agricultural and/or civil pollutants. Ammonia is tested in lakes, rivers, potable water, boiler feed water, sewage, industrial and waste water. Ion Selective electrodes currently used for these measurements require up to 5 minutes for a stable response time, normally last only 3-6 months. On the other hand, 3 or 4 Chemical Test Kits using color cubes are needed to cover the full range. The best increment with chemical test kits is never better than 0.1 mg/L and in most cases, only 0.5 mg/L.

HANNA instruments® offers three instruments for low, medium and high concentrations: **HI 93700** with a range of 0.00 to 3.00 mg/L, **HI 93715** from 0.00 to 9.99 mg/L and **HI 93733** measuring from 0.0 to 50.0 mg/L for applications with higher concentrations.



HI 93700C and HI 93715C are complete kits for easy measurements in the field.

Ordering Information

- HI 93700 is supplied complete with 2 cuvettes, battery and instructions.
- HI 93700C, kit includes HI 93700, hard carrying case and reagents.
- HI 93715 is supplied complete with 2 cuvettes, battery and instructions.
- HI 93715C, kit includes HI 93715, hard carrying case and reagents.
- HI 93733 is supplied complete with 2 cuvettes, battery and instructions.

Specifications

	HI 93700 (Ammonia LR)	HI 93715 (Ammonia MR)	HI 93733 (Ammonium* HR)
Range	0.00 to 3.00 mg/L	0.00 to 9.99 mg/L	0.0 to 50.0 mg/L
Resolution	0.01 mg/L	0.01 mg/L	0.1 mg/L
Accuracy (@20°C/68°F)	±0.04 mg/L ±4%	±0.05 mg/L ±5% of reading	±0.5 mg/L ±5% of reading
Light Source	LED (Light Emitting Diode) 470 nm		
Light Life	Life of the instrument		
Light Detector	Silicon Photocell		
Battery Type / Life	1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of inactivity		
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing		
Dimensions	180 x 83 x 46 mm (7.1 x 3.3 x 1.8")		
Weight	290 g (10 oz.)		
Method	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426-92, Nessler Method. The reaction between ammonia and reagents causes a yellow tint in the sample		

* HI 93733 measures Ammonium Ion; to obtain Ammonia concentration multiply the value by 0,944

Accessories

HI 93700-01	Reagent kit for 100 tests (N-NH ₃ LR)	HI 710009	Shockproof rubber boot, blue
HI 93700-03	Reagent kit for 300 tests (N-NH ₃ LR)	HI 710010	Shockproof rubber boot, orange
HI 93715-01	Reagent kit for 100 tests (N-NH ₃ MR)	HI 731318	Tissue for wiping cuvettes (4 pcs)
HI 93715-03	Reagent kit for 300 tests (N-NH ₃ MR)	HI 93703-50	Cuvet cleaning solution (230 mL)
HI 93733-01	Reagent kit for 100 tests (NH ₄ ⁺ HR)	HI 731321	Measuring cuvet (4 pcs)
HI 93733-03	Reagent kit for 300 tests (NH ₄ ⁺ HR)	HI 731325	Cuvet cap (4 pcs)

For a comprehensive list of accessories, see sections U and V