

HI 83203 - Multi-parameter Photometer for Aquaculture



With the ever-increasing depletion of fish stocks in the open seas, aquaculture has gained prominence and can prove essential to our future dietary needs. Monitoring and controlling parameters such as the oxygen level as well as pH and nitrate content in water is vital in ensuring profitable fish production. Accurate control can prevent disease, increase production and even reduce the premiums on crop insurance. Research personnel, fish farm operators and wildlife specialists now have one compact and easy-to-use meter to keep a close tab on the most important parameters in aquaculture.

Simply take a sample of water and place it in the unit to be zeroed. Add reagents to it and place it back in the HI 83203. The meter will then show you the relevant value in mg/L or µg/L in clear digits on a large LCD. No need to match colors, calibrate probes or change membranes. All has been made simple so that you may get on with more rewarding tasks, such as producing more fish!



Specifications

Light Source	4 tungsten lamps with narrow band interference filter 420/525/575/610 nm
Light Detector	4 Silicon Photocells
Power Supply	2 x 9V battery or 12 Vdc adapter
Auto-off	after 10 minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions / Weight	230 x 165 x 70 mm / 640 g

Ordering Information

HI 83203 is supplied complete with 2 cuvettes, bottle for D.O. test, batteries, 12 Vdc adapter and instructions.

Test	Range	Method	Reagents
Ammonia LR	0.00 to 3.00 mg/L	Nessler	HI 93700-01
Ammonia MR	0.00 to 10.00 mg/L	Nessler	HI 93715-01
Chlorine free*	0.00 to 2.50 mg/L	DPD	HI 93701-01
Chlorine total*	0.00 to 3.50 mg/L	DPD	HI 93711-01
Copper HR	0.00 to 5.00 mg/L	Bicinchoninate	HI 93702-01
Copper LR	0 to 1000 µg/L	Bicinchoninate	HI 95747-01
Nitrate	0.0 to 30.0 mg/L	Cadmium Reduction	HI 93728-01
Nitrite HR	0 to 150 mg/L	Ferrous Sulfate	HI 93708-01
Nitrite LR	0.00 to 0.35 mg/L	Diazotization	HI 93707-01
Oxygen, Dissolved (D.O.)	0.0 to 10.0 mg/L	Winkler	HI 93732-01
pH	6.5 to 8.5 pH	Phenol Red	HI 93710-01
Phosphate HR	0.0 to 30.0 mg/L	Amino Acid	HI 93717-01
Phosphate LR	0.00 to 2.50 mg/L	Ascorbic Acid	HI 93713-01

* For Chlorine measurements, liquid reagents are available (see p. K80 and section V).

All reagents with -01 final code are for 100 tests.

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