



C 209 - Bench Photometer for Education



Finally a meter made for schools and educators that is simple-to-use and economical without compromising accuracy.

In fact, **HI 83209** measures 20 different water quality parameters with lab precision at a comparable cost-per-test as chemical test kits!

Simply press the up or down arrows to access one of 20 critical parameters built into this handy meter.

HI 83209 has been designed to be used both indoors and outdoors. In fact, with its splashproof keyboard, lightweight, battery and 12 Vdc adapter, **HI 83209** is as equally at home in a busy school lab as out near a pond.

Test	Range	Method	Reagent Code
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
Chromium VI HR	0 to 300 µg/L	Diphenylcarbohydrazide	HI 93749-01
Chromium VI LR	0 to 1000 µg/L	Diphenylcarbohydrazide	HI 93723-01
Color	0 to 500 PCU	Chloroplatinate	—
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 Sulphate	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
Phosphorus	0.0 to 15.0 mg/L	Amino Acid	HI 93706-01
Silica	0.00 to 2.00 mg/L	Heteropoly blue	HI 93705-01
Silver	0.000 to 1.000 mg/L	PAN	HI 93737-01**
Zinc	0.00 to 3.00 mg/L	Zincon	HI 93731-01

* For Chlorine, liquid reagents are available, see section V.

** Reagents for 50 tests

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

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

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 83209 is supplied complete with 3 cuvettes, bottle for D.O. test, batteries, 12 Vdc adapter and instructions.