

HI 83200

Multiparameter Photometer for Laboratories

HI 83200 is one of the most versatile photometers on the market. Just one meter measures up to 44 methods critical to analyzing water quality.

The optical system of HI 83200 is based on special subminiature tungsten lamps and narrow-band interference filters to guarantee both high performance and reliable results.

HI 83200 has a powerful interactive user support that assists the user during the analysis process. A full tutorial is available in the Setup Menu, and the Help Menu provides assistance for every step in the measurement process. This meter can be connected to a PC via a USB cable, where the data can be managed with optional HI 92000 Windows® compatible software.



ORDERING INFORMATION

HI 83200-01 (115V), HI 83200-02 (230V) and HI 83200-03 (AUS plug) is supplied with sample cuvettes and caps (4 ea.), sample preparation kit, cloth for wiping cuvettes, 60 mL glass bottle for dissolved oxygen analysis, scissors, A/D/C power adapter, instruction manual.

HI 83200-100 sample preparation kit contains 10 mL cuvettes (4) with caps, 100 mL plastic beaker, 170 mL plastic beaker, 100 mL graduated cylinder, 60 mL syringe with screw rim, 5 mL syringe, funnel, filter discs (25), spoon, pipettes (2), carbon powder packets (50), demineralizer bottle with filter cap for approximately 12 liters of deionized water (dependent on hardness of water to be tested).

TEST	RANGE	METHOD	REAGENT CODE [†]
Alkalinity	0 to 500 mg/L (ppm) as CaCO ₃	EDTA Colorimetric	HI 93755-01
Aluminum	0.00 to 1.00 mg/L (ppm)	Aluminum	HI 93712-01
Ammonia HR	0.00 to 10.00 mg/L (ppm)	Nessler	HI 93715-01
Ammonia LR	0.00 to 3.00 mg/L (ppm)	Nessler	HI 93700-01
Bromine	0.00 to 8.00 mg/L (ppm)	DPO	HI 93736-01
Calcium	0 to 400 mg/L (ppm)	Oxalate	HI 93752-01**
Chlorine Dioxide	0.00 to 2.00 mg/L (ppm)	Chlorophenol Red	HI 93738-01
Chlorine [®] , Free	0.00 to 2.50 mg/L (ppm)	DPO	HI 93701-01
Chlorine [®] , Total	0.00 to 3.50 mg/L (ppm)	DPO	HI 93711-01
Chromium VI HR	0 to 1000 µg/L	Diphenylcarbohydrazide	HI 93723-01
Chromium VI LR	0 to 300 µg/L	Diphenylcarbohydrazide	HI 93749-01
Color of Water	0 to 500 PCU	Colorimetric Platinum Cobalt	=
Copper HR	0.00 to 5.00 mg/L (ppm)	Bicinchoninate	HI 93702-01
Copper LR	0 to 1000 µg/L	Bicinchoninate	HI 93747-01
Cyanuric Acid	0 to 80 mg/L (ppm)	turbidimetric	HI 93722-01
Fluoride	0.00 to 2.00 mg/L (ppm)	SPADNS	HI 93729-01
Hardness, Calcium	0.00 to 270 mg/L (ppm) (as CaCO ₃)	Calmagite	HI 93720-01
Hardness, Magnesium	0.00 to 2.00 mg/L (ppm) (as CaCO ₃)	EDTA Colorimetric	HI 93719-01
Hydrazine	0 to 400 µg/L	p-Dimethylaminobenzaldehyde	HI 93704-01
Iodine	0.0 to 12.5 mg/L (ppm)	DPO	HI 93718-01
Iron HR	0.00 to 5.00 mg/L (ppm)	Phenanthroline	HI 93721-01
Iron LR	0 to 400 µg/L	TPTZ	HI 93746-01**
Magnesium	0 to 150 mg/L (ppm)	Calmagite	HI 937520-01**
Manganese HR	0.0 to 20.0 mg/L (ppm)	Periodate	HI 93709-01
Manganese LR	0 to 300 µg/L	PAN	HI 93748-01**
Molybdenum	0.0 to 40.0 mg/L (ppm)	Mercaptoacetic Acid	HI 93730-01
Nickel HR	0.00 to 7.00 µg/L	Photometric	HI 93726-01
Nickel LR	0.000 mg/L to 1.000 mg/L (ppm)	PAN	HI 93749-01**
Nitrate	0.0 to 30.0 mg/L (ppm)	Calcium Reduction	HI 93728-01
Nitrite HR	0 to 15.0 mg/L (ppm)	Ferrous Sulfate	HI 93708-01
Nitrite LR	0 to 11.5 mg/L (ppm)	Diazotization	HI 93707-01
Oxygen, Dissolved (DO)	0.0 to 10.0 mg/L (ppm)	winkler	HI 93732-01
Ozone	0.00 to 2.00 mg/L (ppm)	DPO	HI 93757-01
pH	6.5 to 8.5 pH	Phenol Red	HI 93710-01
Phosphate HR	0.0 to 30.0 mg/L (ppm)	Amino Acid	HI 93717-01
Phosphate LR	0.00 to 2.50 mg/L (ppm)	Ascorbic Acid	HI 93713-01
Phosphorus	0.0 to 15.0 mg/L (ppm)	Amino Acid	HI 93706-01
Potassium HR	20 to 200 mg/L (ppm)	Turbidimetric Tetraphenylborate	HI 93750-01
Potassium LR	10 to 100 mg/L (ppm)	Turbidimetric Tetraphenylborate	HI 93750-01
Potassium LR	0.0 to 20.0 mg/L (ppm)	Turbidimetric Tetraphenylborate	HI 93750-01
Silica	0.00 to 2.00 mg/L (ppm)	Heterosylid blue	HI 93706-01
Silver	0.000 to 1.000 mg/L (ppm)	PAN	HI 93737-01**
Sulfate	0 to 100 mg/L (ppm)	Turbidimetric	HI 93751-01
Zinc	0.00 to 3.00 mg/L (ppm)	Zinccon	HI 93731-01

Reagents are available in liquid or powder form, and the amount of each reagent is precisely dosed to ensure maximum repeatability. † Unless noted otherwise, all reagent codes ending with -01 are for 100 tests. Replace the -01 with -03 for 300 tests. * For Chlorine, liquid reagents are available. ** Reagents for 50 tests, replace -01 for -05 for 250 tests.

For a complete list of Reagents, see Reagents Section 18.