

Multiparameter Photometer for Water Conditioning



The global distribution of freshwater resources varies greatly from region to region, and only 3% of global water resources are defined as freshwater.

The definition of freshwater is water containing less than 1000 mg/L of dissolved solids, most often salt.

The HI 83208 was developed to measure the most common parameters in water quality monitoring:

Ammonia detection in water treatment systems is particularly important for aquarium owners and fish farm operators. Ammonia is highly soluble in water and extremely toxic to fish.

Chlorine and chlorine-release compounds are used extensively as water purifiers or surface disinfectants.

Phosphates are present in natural waters, and at normal concentrations do not pose any specific health threats to humans. Phosphate contamination that comes from agricultural fertilizer run off can promote excessive algae.

HI 83208 is a multiparameter bench meter that measures twenty-three methods essential for water conditioning.

The optical system of HI 83208 is based on special subminiature tungsten lamps and narrow-band interference filters to guarantee both high performance and reliable results.

HI 83208 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 83208-01 (115V). HI 83208-02 (230V) and HI 83208-03 (AUS plug) are supplied with sample cuvettes with caps (2 ea.) each for wiping cuvettes, 60 mL glass bottle for dissolved oxygen analysis, scissors, AC/DC power adapter and instruction manual.

TEST	RANGE	METHOD	REAGENT CODE ¹
Ammonia MR	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
Chlorine*, Free	0.00 to 2.50 mg/L (ppm)	DPD	HI 93701-01
Chlorine*, Total	0.00 to 3.50 mg/L (ppm)	DPD	HI 93711-01
Copper HR	0.00 to 5.00 mg/L (ppm)	Bicinchoninate	HI 93702-01
Copper LR	0 to 1000 µg/L	Bicinchoninate	HI 95747-01
Fluoride	0.00 to 2.00 mg/L (ppm)	SPADMS	HI 93729-01
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**
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)	Mercuriciodic Acid	HI 93730-01
Nickel HR	0.00 to 7.00 g/L	Photometric	HI 93726-01
Nickel LR	0.000 to 1.000 mg/L (ppm)	PAN	HI 93740-01**
Nitrate	0.0 to 30.0 mg/L (ppm)	Cadmium Reduction	HI 93728-01
Oxygen, Dissolved (DO)	0.0 to 10.0 mg/L (ppm)	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 (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 93705-01
Silica	0.00 to 2.00 mg/L (ppm)	Heteropoly blue	HI 93705-01
Silver	0.000 to 1.000 mg/L (ppm)	PAN	HI 93737-01**
Zinc	0.00 to 3.00 mg/L (ppm)	Zincon	HI 93731-01

¹ Reagents are available in liquid or powder form, and the amount of each reagent is precisely dosed to ensure maximum repeatability.

² Different reagent codes, 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 Chlorine.

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