

HI 83212

Multiparameter Photometer for Power Plant Utilities

Ammonia levels are often tested in boiler feedwater and industrial waste.

Chlorine is used to sanitize cooling towers and industrial equipment.

Copper is often added to water to hinder growth of plankton and algae.

Hydrazine has bactericidal properties and scavenges oxygen.

Molybdenum is used as a corrosion inhibitor in cooling towers while phosphate can enter water streams due to boiler blow-downs and is added to reduce scaling.

Silica, on the other hand, can be a major source of scaling while Silver is a toxic pollutant and needs to be monitored in effluents.

HI 83212 is a multiparameter bench meter that measures thirteen methods essential for power plant utilities. It has four channels allowing for a wide range of tests.

The optical system of HI 83212 is based on special subminiature tungsten lamps and narrow-band interference filters to guarantee both high performance and reliable results.

HI 83212 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.



ADP
Application Designed Photometers

13
methods



ORDERING INFORMATION

HI 83212-01 (115V) and HI 83212-02 (230V), are supplied with sample cuvettes with caps (4 ea.), cloth for wiping cuvettes, scissors, AC/DC power adapter and instruction manual

TEST	RANGE	METHOD	REAGENT CODE¹
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
Hydrazine	0 to 400 µg/L	p-Dimethylamino - benzaldehyde	HI 93704-01
Molybdenum	0.0 to 40.0 mg/L (ppm)	Mercaptoacetic Acid	HI 93730-01
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
Silica	0.00 to 2.00 mg/L (ppm)	Heteropoly blue	HI 95705-01
Silver	0.000 to 1.000 mg/L (ppm)	PAN	HI 93737-01**

¹Reagents are available in liquid or powder form, and the amount of each reagent is precisely dosed to ensure maximum repeatability.
²Unless noted otherwise, all reagent codes ending with -01 are for 100 tests. Replaces the -01 with -01 for 300 tests.

*For Chlorine, liquid reagents are available. **Reagents for 50 tests.

For a complete list of Reagents, see Reagents Section 1.8.

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