

C 205 - Multi-parameter Photometer for Boilers and Cooling Towers



HI 83205 presents engineers and maintenance personnel with an innovative and cost-effective way to monitor boilers and cooling towers. With just one unit, technicians can keep an eye on 24 parameters needed for proper and efficient functioning of their systems. The parameters that can be monitored include: iron, whose presence can be an important indication of corrosion; chlorine to circumvent microbiological fouling; dissolved oxygen, whose presence causes corrosion; silica can point to a contamination of the feed water while phosphate is important to reduce scaling.

These and many other vital parameters can now be measured with just one unit at a cost-per-test that is comparable with chemical test kits. The part numbers that are under reagent code below mostly refer to spare reagent sets for 100 tests.

Test	Range	Method	Reagent Code
Alluminum	0.00 to 1.00 mg/L	Aluminon	HI 93712-01
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
Bromine	0.00 to 8.00 mg/L	DPD	HI 93716-01
Chlorine Dioxide	0.00 to 2.00 mg/L	Chlorophenol Red	HI 93738-01
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 1000 µg/L	Diphenylcarbohydrazide	HI 93723-01
Chromium VI LR	0 to 300 µg/L	Diphenylcarbohydrazide	HI 93749-01
Copper HR	0.00 to 5.00 mg/L	Bicinchoninate	HI 93702-01
Copper LR	0 to 1000 µg/L	Bicinchoninate	HI 95747-01
Hydrazine	0 to 400 µg/L	p-Dimethylaminobenzaldehyde	HI 93704-01
Iron HR	0.00 to 5.00 mg/L	Phenantroline	HI 93721-01
Iron LR	0 to 400 µg/L	TPTZ	HI 93746-01**
Molybdenum	0.0 to 40.0 mg/L	Mercaptoacetic Acid	HI 93730-01
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
Silica	0.00 to 2.00 mg/L	Heteropoly blue	HI 93705-01
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%
Dimensions / Weight	230 x 165 x 70 mm / 640 g

Ordering Information

HI 83205 is supplied complete with 2 cuvettes, bottle for D.O. test, batteries, 12 Vdc adapter and instructions.