

C 216 - C 226 - Multi-parameter Photometers for Swimming Pools



Swimming pool water parameters, like chlorine and pH need to be monitored daily. Chlorine in fact, is used in swimming pools to disinfect water, but its effectiveness depends on the pH value.

If these parameters are not constantly checked, a growth of micro-organisms dangerous to health can occur.

On the other side, if chlorine level is too high, besides the use of chemical products, the water takes on an unpleasant smell and it can cause eye irritation.

Cyanuric acid is used as a stabilizing agent for chlorine, especially in summer time or in heated pools. Alkalinity and hardness controls are equally important, as they permit the maintenance of water in a balanced condition and they prevent corrosion or deposit problems.

HI 83216 and HI 83226 are practical electronic photometers designed to monitor these parameters. The measuring procedure is simple: just put a sample in the cuvet and zero the meter. Then add reagents and insert the cuvet again in the meter. The analysis result will be shown on the display. With HI 83216, the 6 most important parameters for swimming pools, such as pH, free, total chlorine and alkalinity can be measured. With HI 83226 also bromine, ozone and metals like iron and copper can be analyzed.



HI 83216

Test	Range	Method	Reagent Code
Alkalinity	0 to 500 mg/L (as CaCO ₃)	Colorimetric	HI 93755-01
Chlorine, Free	0.00 to 5.00 mg/L	DPD	HI 93701-01
Chlorine, Total	0.00 to 5.00 mg/L	DPD	HI 93711-01
Cyanuric Acid	0 to 200 mg/L	Turbidimetric	HI 93722-01
Hardness (Calcium)	0 to 500 mg/L (as CaCO ₃)	Colorimetric	HI 93756-01
pH	6.5 to 8.5 pH	Phenol Red	HI 93710-01

HI 83226

Test	Range	Method	Reagent Code
Alkalinity	0 to 500 mg/L (as CaCO ₃)	Colorimetric	HI 93755-01
Bromine	0.00 to 10.00 mg/L	DPD	HI 93716-01
Chlorine, Free	0.00 to 5.00 mg/L	DPD	HI 93701-01
Chlorine, Total	0.00 to 5.00 mg/L	DPD	HI 93711-01
Copper, Free	0.00 to 5.00 mg/L	Bicinchoninate	HI 93702-01
Copper, Total	0.00 to 5.00 mg/L	Bicinchoninate	HI 93702T-01
Cyanuric Acid	0 to 200 mg/L	Turbidimetric	HI 93722-01
Hardness (Calcium)	0 to 500 mg/L (as CaCO ₃)	Colorimetric	HI 93756-01
Iron	0.00 to 5.00 mg/L	Phenanthroline	HI 93721-01
Ozone	0.00 to 2.00 mg/L	Colorimetric	HI 93757-01
pH	6.5 to 8.5 pH	Phenol Red	HI 93710-01

Specifications

Light Source	2 tungsten lamps with narrow band interference filter 525/575 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 83216 and HI 83226 are supplied complete with rugged carrying case, 4 cuvetts, batteries, scissors, tissue for wiping cuvetts and instructions.

All reagents with -01 final code are for 100 tests.
For a comprehensive list of accessories and reagents, see sections U and V