

## Free and Total Chlorine, Total Hardness, Iron and pH



Chlorine and pH are two of the most closely monitored parameters in water quality tests.

Hardness is also an important parameter, attentively regulated to reduce waste or ensure proper functioning of equipment. Iron on the other hand can cause unpleasant taste or stain kitchenware or laundry.

With HI 93745 you have a powerful instrument to keep all these parameters under control.

The microprocessor-based HI 93745 has been factory programmed to read the above parameters with such ease that it can be operated by technical and non-technical personnel alike.



### Specifications

#### HI 93745 (Free and Total Chlorine, Total Hardness, Iron, pH)

Range	Free Chlorine	0.00 to 2.50 mg/L
	Total Chlorine	0.00 to 3.50 mg/L
	Total Hardness	0.00 to 4.70 mg/L
	Iron	0 to 400 µg/L
	pH	5.9 to 8.5 pH
Resolution	Chlorine	0.01 mg/L
	Total Hardness	0.01 mg/L
	Iron	1 µg/L
	pH	0.1 pH
Accuracy (@20°C/68°F)	Chlorine	±0.03 mg/L ±3% of reading
	Total Hardness	±0.11 mg/L ±5% of reading
	Iron	±10 µg/L ±8% of reading
	pH	±0.1 pH
Light Source	LED (Light Emitting Diode) 555 nm	
Light Life	Life of the instrument	
Light Detector	Silicon Photocell	
Battery Type / Life	1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of non-use	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Dimensions / Weight	180 x 83 x 46 mm (7.1 x 3.3 x 1.8") / 290 g (10 oz.)	
Method	Chlorine	Adaptation of the EPA 330.5 Method, DPD
	Total Hardness	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> ed. Calmagite/colorimetric method
	Iron	Adaptation of TPTZ method
	pH	Phenol red method

### Ordering Information

HI 93745 is supplied with 3 cuvettes, battery and instructions.

### Accessories

HI 710009	Shockproof rubber boot, blue	HI 93710-01	Reagent kit for 100 tests (pH)
HI 710010	Shockproof rubber boot, orange	HI 93710-03	Reagent kit for 300 tests (pH)
HI 731318	Tissue for wiping cuvettes (4 pcs)	HI 93711-01	Reagent kit for 100 tests (Total Chlorine)
HI 93703-50	Cuvet cleaning solution (230 mL)	HI 93711-03	Reagent kit for 300 tests (Total Chlorine)
HI 731321	Measuring cuvet (4 pcs)	HI 93711-D3	DPD3 reagent for 600 tests (Total Chlorine)
HI 731325	Cuvet cap (4 pcs)	HI 93719-01	Reagent kit for 100 tests (Total Hardness)
HI 93701-01	Reagent kit for 100 tests (Free Chlorine)	HI 93719-03	Reagent kit for 300 tests (Total Hardness)
HI 93701-03	Reagent kit for 300 tests (Free Chlorine)	HI 93746-01	Reagent kit for 50 tests (Fe LR)
HI 93701-F	Liquid reagent kit for 300 tests (Free Chlorine)	HI 93746-03	Reagent kit for 150 tests (Fe LR)
HI 93701-T	Liquid reagent kit for 300 tests (Total Chlorine)		
HI 93701-11	Standard Free Chlorine 0.00, 0.25, 0.50, 1.00 mg/L		

For a comprehensive list of accessories, see sections U and V