

# HI 93743

pH and Iron



## Iron and pH Meter

pH is normally measured using litmus paper or pH meters with electrodes. The former is quite inexpensive, but it provides only poor results. Litmus papers also pose a serious problem to those who find it difficult to distinguish certain colors. Conventional pH meters, on the other hand, provide accurate results but the electrodes require maintenance and their price tag is much higher.

There is a third choice. In fact with **HI 93743**, you can measure pH in a few short and quick steps. The measurements are also impervious to temperature variations, a common source of error with conventional pH meters.

**HI 93743** can also measure iron, a prime cause of unpleasant taste in drinking water and damage to kitchen ware and laundry.

With **HI 93743**, you can now measure both of these parameters with unparalleled accuracy for a cost-per-test that is comparable with chemical test kits and litmus paper.

### Specifications

#### HI 93743 (Iron LR and pH)

Range	Iron	0 to 400 $\mu\text{g/L}$
	pH	5.9 to 8.5 pH
Resolution	Iron	1 $\mu\text{g/L}$
	pH	0.1 pH
Accuracy (@20°C/68°F)	Iron	$\pm 10 \mu\text{g/L}$ $\pm 8\%$ of reading
	pH	$\pm 0.1$ 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		180 x 83 x 46 mm (7.1 x 3.3 x 1.8")
Weight		290 g (10 oz.)
Method	Iron	Adaptation of the TPTZ method
	pH	Phenol red method

### Accessories

HI 710009	Shockproof rubber boot, blue	HI 93710-01	Reagent kit per 100 tests (pH)
HI 710010	Shockproof rubber boot, orange	HI 93710-03	Reagent kit per (pH)
HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93746-01	Reagent kit per 50 test (Fe LR)
HI 93703-50	Cuvet cleaning solution (230 mL)	HI 93746-03	Reagent kit per LR)
HI 731321	Measuring cuvet (4 pcs)		
HI 731325	Cuvet cap (4 pcs)		

### Ordering Information

**HI 93743** is supplied with 2 cuvetts, battery and instructions.

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