



## Manganese Meters

Manganese is one of the most common metals present in nature and is used in many industrial applications, for example, in the production of fertilizers and in the pharmaceutical industry.

Manganese salts are also used in iron alloys (steel manufacturing) and non-iron alloys as it improves their corrosion resistance and hardness.

Manganese is not considered to be dangerous, but high concentrations of this metal in water will result in change of taste and smell. In industry, manganese can produce corrosion and incrustations to pipes when found in high concentrations.

HI 93709 and HI 93748 are portable microprocessor meters that determine the concentration of manganese in water at the touch of a button, and are ideal for field applications and monitoring.



### Specifications

	HI 93709 (Manganese HR)	HI 93748 (Manganese LR)
Range	0.0 to 20.0 mg/L	0 to 300 µg/L
Resolution	0.1 mg/L	1 µg/L
Accuracy (@20°C/68°F)	±0.2 mg/L ±3% of reading	±2 µg/L ±3% of reading
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") (7.1 x 3.3 x 1.8")	
Weight	290 g (10 oz.)	
Method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> ed. Periodate Oxidation Method The reaction between Manganese and the reagents causes a pink tint in the sample	Adaptation of the PAN method The reaction between manganese and the reagents causes an orange tint in the sample

### Accessories

HI 710009	Shockproof rubber boot, blue	HI 731325	Cuvet cap (4 pcs)
HI 710010	Shockproof rubber boot, orange	HI 93709-01	Reagent kit for 100 tests (Mn HR)
HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93709-03	Reagent kit for 300 tests (Mn HR)
HI 731321	Measuring cuvet (4 pcs)	HI 93748-01	Reagent kit for 50 tests (Mn LR)
HI 93703-50	Cuvet cleaning solution (230 mL)	HI 93748-03	Reagent kit for 150 tests (Mn LR)

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

### Ordering Information

HI 93709 is supplied complete with 2 cuvetts, battery and instructions.

HI 93748 is supplied complete with 2 cuvetts, battery and instructions.