



HI96742

Iron, Low Range and Manganese Low Range Portable Photometer

- **CAL Check™**
 - Enables users to check validity of calibration
- **BEPS**
 - Alerts the user of low battery power that could adversely affect reading
- **GLP Features**
 - Meets Good Laboratory Practices

Neither iron nor manganese are considered dangerous, but high concentrations of these metals in water can create a bittersweet or astringent taste.

The presence of iron in supplied water is undesirable due to the staining effect on laundry and porcelain.

Manganese, in high concentrations, can produce corrosion and scaling in pipes, which is a serious industrial concern.

The solution for these applications is the Hanna HI96742, a handheld photometer to measure low range iron and manganese.

Specifications		HI96742 Iron, LR and Manganese	
Parameter Specifications		Iron, LR (P1)	Manganese, LR (P2)
	Range	0 to 1.60 mg/L (ppm)	0 to 300 µg/L (ppb)
	Resolution	0.01 mg/L	1 µg/L
	Accuracy @ 25°C (77°F)	±0.01 mg/L ±8% of reading	±2 µg/L ±3% of reading
Additional Specifications	Light Source	tungsten lamp	
	Light Detector	silicon photocell with narrow band interference filter @ 525 nm	
	Power Supply	9V battery	
	Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder.	
	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
	Dimensions	193 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
	Weight	360 g (12.7 oz.)	
	Method	Iron LR: adaptation of TPTZ method; Manganese LR: adaptation of the 1-(2-pyridylazo)-2-naphthol PAN method.	
Ordering Information	HI96742 are supplied with sample cuvettes with caps (2), 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately		
Reagents and Standards	HI96746-11	CAL Check™ standard cuvettes (iron)	
	HI93746-01	reagents for 100 Tests (iron)	
	HI93746-03	reagents for 300 Tests (iron)	
	HI96748-11	CAL Check™ standard cuvettes (manganese)	
	HI93748-01	reagents for 100 Tests (manganese)	
	HI93748-03	reagents for 300 Tests (manganese)	