



HI96742

## Iron, Low Range and Manganese Low Range Portable Photometer

- **CAL Check**
  - Allows for performance verification and calibration of the meter using NIST traceable standards
- **Auto-shut off**
- **Built-in timer**
  - Display of time remaining before a measurement is taken

The HI96742 portable photometer measures low range iron and manganese.

Hanna's portable photometers feature an advanced optical system; the combination of a special tungsten lamp, a narrow band interference filter, and silicon photodetector ensure accurate photometric readings every time. The Hanna exclusive CAL Check™ feature utilizes ready-made, NIST traceable standards to verify both meter validation and calibration. The exclusive cuvette locking system ensures that the cuvette is inserted into the measurement cell in the same position every time to maintain a consistent path length.

### Significance of Use

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.

### Specifications

#### HI96742 Iron, LR and Manganese

	Iron, LR (P1)	Manganese, LR (P2)
Parameter Specifications	Range	0 to 1.60 mg/L (ppm)
	Resolution	0.01 mg/L
	Accuracy @ 25°C (77°F)	±0.01 mg/L ±8% 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.)
Ordering Information	<b>HI96742</b> 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	<b>HI96746-11</b>	CAL Check™ standard cuvettes (iron)
	<b>HI93746-01</b>	reagents for 50 Tests (iron)
	<b>HI93746-03</b>	reagents for 150 Tests (iron)
	<b>HI96748-11</b>	CAL Check™ standard cuvettes (manganese)
	<b>HI93748-01</b>	reagents for 100 Tests (manganese)
	<b>HI93748-03</b>	reagents for 300 Tests (manganese)