

HI97742

Iron Low Range and Manganese Low Range Portable Photometer

- **Advanced LED optical system**
 - Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
 - LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.
- **CAL Check™**
 - Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.
- **On-screen tutorial mode with animations**
 - Guides users step-by-step through the measurement process
- **Waterproof and floating IP67 case**
- **Unit of measure is displayed along with reading**
- **Built-in timer**
 - Built-in reaction timer that ensures consistency between tests.
- **Error messages on display**
 - Alerts to problems including no cap, high zero, and standard too low
- **GLP data**
 - Displays the last calibration date.
- **Auto logging**
- **Battery status indicator**
- **Auto-shut off**



Specifications	HI97742	
Iron LR	Range	0.00 to 1.60 mg/L (ppm)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.01 mg/L ±8% or reading
	Method	adaptation of the TPTZ method
Manganese LR	Range	0 to 300 µg/L (as Mn)
	Resolution	0.01 µg/L
	Accuracy @25°C (77°F)	±10 µg/L ±3% of reading at 25°C
Measurement System	Method	adaptation of the 1-(2-pyridylazo)-2-nphtol PAN method
	Light Source	light emitting diode
	Bandpass filter	575 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
	Light Detector	silicon photocell
Additional Specifications	Cuvette type	round 24.6 mm diameter (22 mm inside)
	Auto logging	50 readings
	Display	128 x 64 pixel B/W LCD with backlight
	Auto-off	after 15 minutes of inactivity (30 minutes before a READ measurement)
	Battery type / Life	alkaline 1.5 V AA (3) / > 800 measurements (without backlight)
	Environment	0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceable
	Dimensions	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
Weight	380 g (13.4 oz.)	
Ordering Information	HI97742 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), instrument quality certificate, and instruction manual. CAL Check standards and testing reagents sold separately	
Reagents and Standards	HI97742	HI97742-11 CAL Check standard cuvettes for iron LR
		HI93746-01 iron LR reagents for 50 tests
		HI93746-03 iron LR reagents for 150 tests
		HI97748-11 CAL Check standard cuvettes for manganese LR
		HI93748-01 manganese LR reagents for 50 tests
		HI93748-03 manganese LR reagents for 150 tests

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