

HI97730

Molybdenum 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**

Significance of Use

Molybdenum is commonly used in creating many types of high strength steel alloys. It has the ability to withstand extremely high temperatures without significant expansion or softening and displays a high resistance to corrosion. Wastewater from industries that use molybdenum must be treated to remove high amounts before discharge into the public collection system.



Specifications	HI97730 Molybdenum	
Measurement	Range	0.0 to 40.0 mg/L (ppm) (as Mo ⁶⁺)
	Resolution	0.1 mg/L
	Accuracy @25°C (77°F)	±0.3 mg/L ±5% of reading
	Method	adaptation of the mercaptoacetic acid method
Measurement System	Light Source	light emitting diode
	Bandpass filter	420 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
Additional Specifications	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
	Auto logging	50 readings
	Display	128 x 64 pixel B/W LCD with backlight
Additional Specifications	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.)

HI97730 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

Ordering Information

HI97730C includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), scissors, cuvette wiping cloth, CAL Check standard certificate, instrument quality certificate, instruction manual, and rigid carrying case.

Reagents sold separately

Reagents and Standards	HI97730	
		HI97730-11 CAL Check standard cuvettes for molybdenum
		HI93730-01 molybdenum reagents for 100 tests
		HI93730-03 molybdenum reagents for 300 tests