

HI96735

# Hardness, EPA Portable Photometer

- **CAL Check**
  - Allows for performance verification and calibration of the meter using NIST traceable standards.
- **GLP**
  - Review of the last calibration date.
- **Auto-shut off**
  - Automatic shut off after 10 minutes of non-use when the meter is in measurement mode. Prevents wastage of batteries in the event the meter is accidentally left on.
- **Battery status indicator**
  - Indicates the amount of battery life left.
- **Built-in timer**
  - Display of time remaining before a measurement is taken. Ensures that all readings are taken at the appropriate reaction intervals for the test being performed.
- **Error messages**
  - Messages on display alerting to problems including no cap, high zero, and standard too low.
- **Cooling lamp indicator**
  - To maintain the desirable wavelength to be used for absorbance, it is necessary to ensure components are not overheated from the heat generated by the tungsten lamp. Each photometer is designed to allow a minimal amount of time for components to cool. The cooling lamp indicator is displayed prior to a reading being taken.
- **Units of measure**
  - Appropriate unit of measure is displayed along with reading.

The HI96735 portable photometer is for the measurement of total hardness. 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.

\*The reagents are in liquid and powder form and are supplied in bottles and in packets. The amount of reagent is precisely dosed to ensure maximum repeatability.



## Significance of Use

Total hardness refers to the presence of magnesium and calcium. Hardness from magnesium and calcium is due mainly to runoff water dissolving these salts as it flows or filters through different layers of strata. Hardness can also cause scaling of pipes in cooling and heating systems.

### Specifications HI96735 Hardness, Total

	Hardness LR (P1)	Hardness MR (P2)	Hardness HR (P3)
Range	0 to 250 mg/L (ppm)	200 to 500 mg/L (ppm)	400 to 750 mg/L (ppm)
Resolution	1 mg/L from 0 to 100 mg/L 5 mg/L from 100 to 250 mg/L	1 mg/L from 0-100 mg/L 5 mg/L from 100-500 mg/L	5 mg/L from 400-750 mg/L
Accuracy @ 25°C (77°F)	±5 mg/L ±4% of reading	±7 mg/L ±3% of reading	±10 mg/L ±2% of reading
Light Source	light emitting diode		
Light Detector	silicon photocell with narrow band interference filter @ 466		
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	adaptation of the EPA recommended method 130.1		
<b>Ordering Information</b>	<b>HI96735</b> is supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately		
<b>Reagents and Standards</b>	<b>HI96735-11</b>	CAL Check™ standard cuvettes	
	<b>HI93735-00</b>	reagents for 100 tests (0-250 mg/L)	
	<b>HI93735-01</b>	reagents for 100 tests (200-500 mg/L)	
	<b>HI93735-02</b>	reagents for 100 tests (400-750 mg/L)	
	<b>HI93735-0</b>	reagents for 100 tests (0-750 mg/L)	

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