



HI97734 Free & Total Chlorine High Range Portable Photometer

Description

Chlorine is a common chemical used by many due to its disinfection, oxidation and bleaching properties. In swimming pools, drinking water, and food processing chlorine is used to disinfect and keep bacteria from growing. In metal finishing it is used as an oxidizer to convert cyanide in wastewater to cyanate while in the pulp and paper industry it is used to bleach wood pulp so that paper is white. The HI97734 is designed to measure free chlorine in water up to 10.00 mg/L (ppm).

The HI97734 has an innovative optical system that offers superior performance in accuracy, repeatability, and the short amount of time it takes to perform a measurement. This compact, waterproof meter is extremely user friendly with a tutorial mode that walks the user graphically, step by step, in performing a measurement. The use of a backlit dot matrix LED allows the use of virtual keys which makes the operation of the meter very intuitive including selecting different units of measure, reviewing GLP data, recalling the last 50 measurements, and customizing the meter to user preferences.

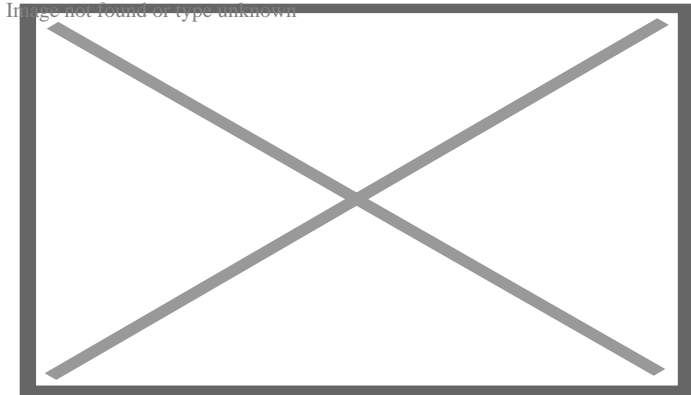
HI97734 is completely waterproof including the cuvette holder that is designed with ridges to protect the optical path from getting scratched by the cuvette and a gasketed battery compartment that holds three common AA batteries. The compact design fits comfortably in the hand for use in the field or on a table for benchtop use. The LCD is 71 mm (2.75") by 37 mm (1.6") and is backlit for easy viewing under all conditions.

Image not found or type unknown

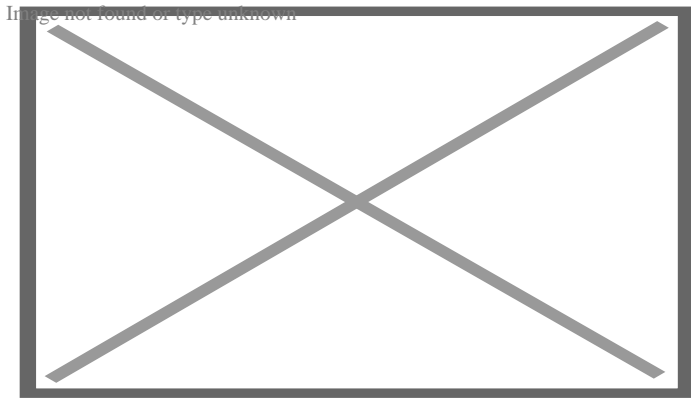
- LED that generates very little heat.

- 8 nm narrowband interference filter that is accurate to +/- 1 nm.
- Reference detector that modulates the voltage to LED for consistent light output.
- A concave focusing lens that reduces errors from imperfections in the cuvette.

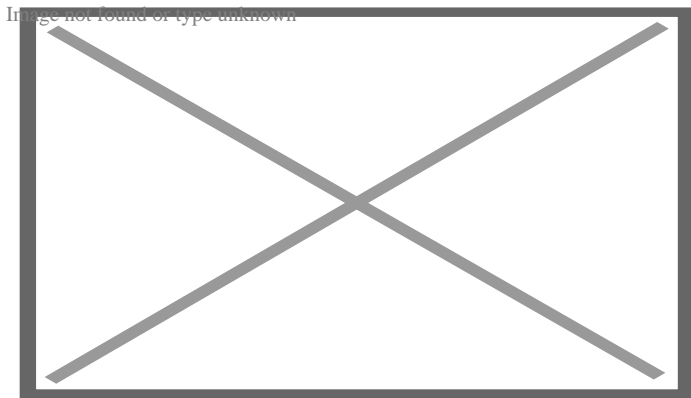
On-Screen Features



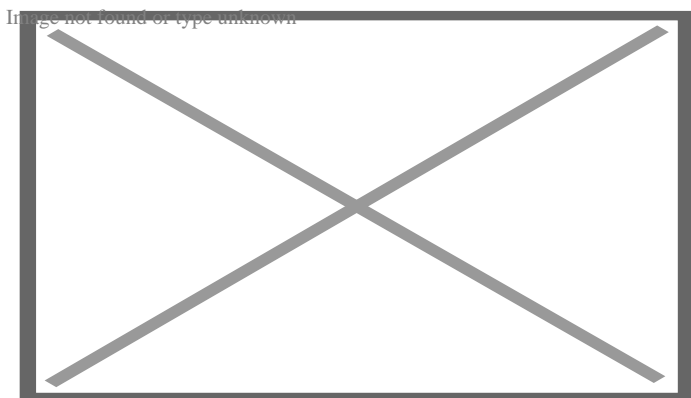
CAL Check Advanced features including CAL-Check to verify performance and if necessary, recalibrate.



Setup Options Backlit dot matrix LCD that offers an exceptionally intuitive user interface that is easy to read and understand.



Tutorial Mode Tutorial mode for step-by-step instructions to guide a first-time user in how to perform a measurement correctly.



Reaction Timer Built-in reaction timer that ensures consistency amongst multiple users.

HI97734 FEATURES/BENEFITS:

Stable Light Source:

- The internal reference system of the HI97734 photometer compensates for any drifts due to power fluctuations or ambient temperature changes. With a stable source of light the readings are fast and stable between your blank (zero) measurement and sample measurement.

High Efficiency Light Source:

- LED light sources offer superior performance compared to tungsten lamps. 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.

High Quality Filters:

- Improved optical filters ensure greater wavelength accuracy and allow a brighter, stronger signal to be received. The end result is higher measurement stability and less wavelength error.

Greater Light Yield:

- A focusing lens collects all of the light that exits the cuvette, eliminating errors from imperfections and scratches that may be present in the glass. The use of the convex lens reduces the need for indexing cuvettes.

CAL Check Functionality:

- Hanna's exclusive CAL Check feature allows for performance verification and calibration of the meter using NIST traceable standards. Our CAL Check standard vials are developed to simulate a specific absorbance value at each wavelength to verify the accuracy of subsequent readings.

Large Cuvette Size:

- The sample cell of the HI97734 fits a round, glass cuvette with a 25 mm path length. The relatively long path length of the sample cuvette allows the light to pass through more of the sample solution, ensuring accurate measurements even in low absorbance samples.

Intuitive Dot Matrix Display:

- The HI97734 is designed with a backlit, graphic LCD. With virtual keys, a battery status indicator, and error messages. Users will find the meter interface intuitive and easy to read. A dedicated help key provides information relating to the current meter operation, and can be used at any stage in the setup or measurement process to show contextual help.

Auto-off Protection:

- The meter uses three common AA batteries that allow for about 800 measurements to be taken. The auto-off feature automatically shuts off the meter after 15 minutes of inactivity in order conserve battery life.

Especificaciones

Código de producto	HI97734
Intervalo de cloro libre y total	0.00 a 10.00 mg/L (ppm)
Resolución de cloro libre y total	0.01 mg/L de 0.00 a 3.50 mg/L; 0.10 mg/L por encima de 3.50 mg/L
Exactitud de cloro libre y cloro total	±0.03 mg/L ±3% de la lectura
Método de cloro libre y total	Adaptación del método USEPA 330.5 y el Método Estándar 4500-Cl G
Fuente de luz	Diodo emisor de luz (LED)
Detector de luz	Fotocelda de silicio
Ancho de banda del filtro	8 nm
Exactitud de la longitud de onda del filtro	±1.0 nm
Registro	50 lecturas (registro automático)
Alimentación eléctrica	Baterías alcalinas 1.5 V AA (3 pzas.)
Duración de la batería	> 800 mediciones (sin iluminación)
Apagado automático	Después de 15 minutos de inactividad (30 minutos antes de leer una medición)
Ambiente de trabajo	0 a 50 °C (32 a 122 °F); 0 a 100% HR, sin condensación
Dimensiones	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
Peso	380 g (13.4 oz.)