

HI93414

## Turbidity and Free/Total Chlorine Portable Meter

*Fast Tracker™ Technology,  
EPA Compliant*

The HI93414 is a multiparameter instrument that measures the most important parameters in drinking water: turbidity and chlorine. The instrument is based on a state-of-the-art optical system which provides accurate results by minimizing stray light and color interferences. Periodic calibration with the supplied standards compensates for any variations in intensity of the tungsten lamp. The colorimeter portion of the meter uses a 525 nm narrow band interference filter for maintaining the proper wavelength in the measurement of free and total chlorine. All measurements are performed with 25 mm round cuvettes composed of special optical glass to ensure maximum repeatability of turbidity and chlorine measurements.

### EPA Compliant

The HI93414 meets and exceeds the requirements of EPA and Standard Methods both for turbidity and colorimetric chlorine measurements. When the meter is in EPA mode all turbidity readings are rounded according to meet reporting requirements.



### Backlit Display

A backlit LCD display provides an easy to understand, user-friendly interface. Displayed codes guide the user step-by-step through routine operation and calibration.

### Three Measurement Modes

The HI93414 features three options for measurement including ratio mode for turbidity, free chlorine, and total chlorine. Turbidity measurements can be made in the 0.00 to 1000 NTU (Nephelometric Turbidity Units) range, while free or total chlorine measurements can be made in the 0.00 to 5.00 mg/L (ppm) range.



### Multiple reading modes

Normal measurement, continuous measurement, or signal averaging measurement are reading modes available

### Calibration

A two, three, or four-point turbidity calibration can be performed by using the supplied (<0.1, 15, 100, and 750 NTU) standards. Calibration points can be modified if user-prepared standards are used. For free and total chlorine, the 1.00 mg/L (ppm) CAL Check™ standard can be used for calibration and performance verification.

### AMCO AEPA-1 Primary Turbidity Standard

The AMCO AEPA-1 supplied standards are recognized as a primary standard by the USEPA. These non-toxic standards are made of styrene divinylbenzene polymer spheres that are uniform in size and density. The standards are reusable and stable with a long shelf life.

### CAL Check™

With the CAL Check™ function, reliable performance of the chlorine colorimeter can be validated at any moment by using the

exclusive HANNA ready-made, NIST traceable standards. All standards are supplied with a Certificate of Analysis (COA) for traceability.

### GLP Data

The HI93414 features complete GLP (Good Laboratory Practice) functions that allow traceability of the calibration conditions. Data includes calibration points, date, and time.



### Data Logging

Up to 200 measurements can be stored in the internal memory and recalled at any time.

### Data Transfer

For further storage or analysis options, logged data can be downloaded to a Windows compatible PC using the RS232 or USB ports and the HI92000 software.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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