Turbidity and Free/ Total Chlorine Meter



The HI83414 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 HI83414 meets and exceeds the requirements of EPA and Standard Methods both for turbidity and colorimetric chlorine measurements. Wheni n EPA mode all turbidity readings are rounded accordingly to meet reporting requirements.

· Four Measurement Modes

 The HI83414 features four measurement modes including ratio or non-ratio mode for turbidity, free chlorine, and total chlorine. In ratio mode the turbidity is 0.00 to 4000 NTU (Nephelometric Turbidity Units) while in the non-ratio mode the range is 0.00 to 40.0 NTU. The range for free or total chlorine measurements is 0.00 to 5.00 mg/L (ppm) range.

Multiple Turbidity Units of Measure

 Turbidity can be displayed as nephelometric turbidity units (NTU), European Brewing Convention units (EBC) or Nephelos units.

• Multiple reading modes

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

• 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 stable and reusable with a long shelf life.

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Calibration

 A two, three, four, or five-point turbidity calibration can be performed by using the supplied (<0.1, 15, 100, 750, and 2000 NTU) standards.
 Calibration points can be modified if user-prepared standards are used. For free and total chlorine, the CAL Check™ standard can be used for calibration to 1.00 mg/L (ppm).

CAL Check™

 With the powerful 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 HI83414 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 USB port and the HI92000 software.

Tutorial Mode

 The unique tutorial mode provides additional information to help the user during measurements. When enabled, the instrument displays explanations and a confirmation button when a preparation or other operation has to be performed.

Contextual Help

 Contextual help is always available through a dedicated HELP button.
 Clear tutorial messages and directions are available on-screen to quickly and easily guide users through setup and calibration. The help information displayed is relative to the setting/ option being viewed.

• Backlit Graphic LCD Display

 A graphic LCD display provides an easy to understand, user-friendly interface.
 All messages are in plain text making them easy to read.

HI83414 Turbidity Specifications

Range	0.00 to 9.99; 10.0 to 40.0 NTU; 0.0 to 99.9; 100 to 268 Nephelos; 0.00 to 9.80 EBC
Resolution	0.01; 0.1 NTU; 0.1; 1 Nephelos; 0.01 EBC
Range	0.00 to 9.99; 10.0 to 99.9; 100 to 4000 NTU; 0.0 to 99.9; 100 to 26800 Nephelos; 0.00 to 9.99; 10.0 to 99.9; 100 to 980 EBC
Resolution	0.01; 0.1; 1 NTU; 0.1; 1 Nephelos; 0.01; 0.1, 1 EBC
ion	automatic
	±2% of reading plus 0.02 NTU (0.15 Nephelos; 0.01 EBC); ±5% of reading above 1000 NTU (6700 Nephelos; 245 EBC)
,	±1% of reading or 0.02 NTU (0.15 Nephelos; 0.01 EBC) whichever is greater
	< 0.02 NTU (0.15 Nephelos; 0.01 EBC)
ρr	silicon photocell
	nephelometric method (90°) or ratio nephelometric method (90° & 180°), adaptation of the USEPA method 180.1 and standard method 2130 B
ode	normal, average, continuous
ndards	< 0.1, 15, 100, 750 and 2000 NTU
	two, three, four or five-point calibration
	Resolution Range Resolution ion

HI83414 Free and Total Chlorine Specifications

Range	0.00 to 5.00 mg/L (ppm)
Resolution	0.01 mg/L (ppm) from 0.00 to 3.50 mg/L (ppm); 0.10 above 3.50 mg/L (ppm)
Accuracy @25°C/77°F	±0.02 mg/L @ 1.00 mg/L
Detector	silicon photocell with 525 nm narrow band interference filters
Method	adaptation of the USEPA Method 330.5 and Standard Method 4500-CI G.
Standards	1.00 mg/L (ppm) free chlorine; 1.00 mg/L (ppm) total chlorine
Calibration	one-point calibration

HI83414 General Specifications

Thos is recited as specimental of	
tungsten filament lamp / greater than 100,000 readings	
40 x 70 mm graphic LCD (64 x 128 pixels) with backlight	
200 records	
USB	
0 to 50°C (32 to 122°F); max 95% RH non-condensing	
230/115 Vac; 50/60 Hz	
230 x 200 x 145 mm (9.0 x 7.9 x 5.7")	
2.5 kg (88 oz.)	
HI83414-01 (115V) and HI83414-02 (230V) are supplied with sample cuvettes and caps (5), calibration cuvettes for turbidity (HI88703-11) and colorimeter (HI93414-11), silicone oil (HI98703-58), cuvette wiping cloth, scissors, power cord and instruction manual.	

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