

Turbidity & Chlorine Measurements in One Meter

With the hand held HI 93114, three important parameters in water quality analysis are at your fingertips. Free and total chlorine measurements and US EPA compliant turbidity measurements are performed quickly and reliably with this lab-grade microprocessor-based field instrument. HI 93114 is particularly useful for potable water measurements and municipalities.

The rugged HI 93114 will log data for up to 25 measurements along with time and date information for retrieval at a later date. This instrument also offers Good Laboratory Practice (GLP) features which allow the user to verify the calibration status of the meter.

With HI 93114 measurements can be performed using either concentration or relative absorbance of the sample depending on the requirements of the application.

HI 93114 can be calibrated using the factory preprogrammed calibration points or can be custom calibrated when in colorimetric mode.

This rugged instrument has been engineered to offer all the sophistication and reliability of benchtop laboratory instrumentation in the size of a hand-held meter.



Specifications

HI 93114		
Range	Turbidity	0.00 to 9.99 FTU* 10.0 to 50.0 FTU*
	Free Chlorine	0.00 to 2.50 mg/L
	Total Chlorine	0.00 to 3.50 mg/L
Resolution	Turbidity	0.01 FTU (0.00 to 9.99 FTU) 0.1 FTU (10.0 to 50.0 FTU)
	Chlorine	0.01 mg/L
Accuracy	Turbidity	±0.5 FTU or ±5% of reading (whichever is greater)
	Chlorine	±0.03 mg/L; ±3% of reading (whichever is greater)
Calibration	2 points; selectable between 0.00 - 50.0 FTU (0.00 and 20.0 FTU recommended)	
Light Source	green LED	
Light Source life	life of the instrument	
Light Detector	2 silicon photocells	
Battery Type / Life	4 x 1.5V AA / approx. 60 hours of continuous use or 1000 measurements; automatic shut-off selectable after 10, 20, 30, 40, 50 or 60 minutes	
Environment	0 to 50°C (32 to 122°F); RH max 95% (non condensing)	
Dimensions	220 x 82 x 66 mm (8.7 x 3.2 x 2.6")	
Weight	510 g (1.1 lb.)	

* 1 FTU (Formazine Turbidity Unit) = 1 NTU (Nephelometric Turbidity Unit)

Accessories

HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93701-03	Reagent kit for 300 free Cl ₂ tests
HI 731321	Spare glass cuvet (4 pcs)	HI 93711-01	Reagent kit for 100 total Cl ₂ tests
HI 731327	Maintenance kit: rugged carrying case including HI 93102-0 and HI 93102-20 calibration solutions, HI 93703-50 cuvet cleaning solution, 1 tissue for wiping cuvetts and 2 cuvetts	HI 93711-03	Reagent kit for 300 total Cl ₂ tests
		HI 93102-0	AMCO-AEPA-1 calibration solution @ 0 NTU (30 mL)
HI 93701-01	Reagent kit for 100 free Cl ₂ tests	HI 93102-20	AMCO-AEPA-1 calibration solution @ 20 NTU (30 mL)

Ordering Information

HI 93114 is supplied complete with glass cuvet, batteries and instructions.