HI88713

Turbidity Benchtop Meter

ISO Compliant

The HI88713 Precision ISO Turbidity Benchtop Meter is specially designed for water quality measurements, providing reliable and accurate readings, even within low turbidity ranges. The instrument is based on a state-of-the-art optical system which guarantees accurate results, assures long term stability, and minimizes stray light and color interferences. Periodic calibration with the supplied standards compensates for any variations in intensity of the tungsten lamp. The 25 mm round cuvettes composed of special optical glass guarantee the repeatability of turbidity measurements.

ISO Compliant

The HI88713 meets and exceeds the requirements of ISO 7027 method for turbidity measurements by use of an infrared LED light source.
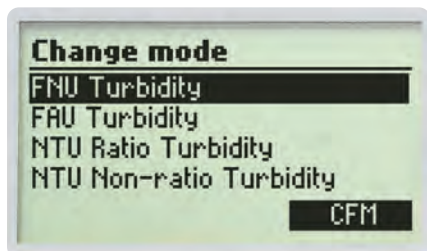
Four Measurement Modes

The HI88713 features four options for turbidity measurement: FNU (Formazin Nephelometric Units), FAU (Formazin Attenuation Units), and NTU (Nephelometric Turbidity Units) ratio and non-ratio mode. Turbidity ranges for each mode are 0.00 to 1000 FNU, 10.0 to 4000 FAU, 0.00 to 4000 NTU (ratio mode), and 0.00 to 1000 NTU (non-ratio mode).

Multiple Turbidity Units of Measure

Turbidity can be read as Formazin Nephelometric Units (FNU), Formazin Attenuation Units (FAU), European Brewing Convention units (EBC), and Nephelometric Turbidity Units (NTU).

Multiple reading modes

Normal, continuous, or signal averaging measurement 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 reusable and stable with a long shelf life.

Calibration

The HI88713 has a powerful calibration function that compensates for variation in light intensity. A two, three, four, or five-point turbidity calibration can be performed by using the supplied (<0.1, 15, 100, 750 FNU, and 2000 NTU) standards. Calibration points can be modified if user-prepared standards are used.

GLP Data

The HI88713 features complete GLP (Good Laboratory Practice) functions that allow traceability of the calibration conditions. Data includes calibration points, date, and time.

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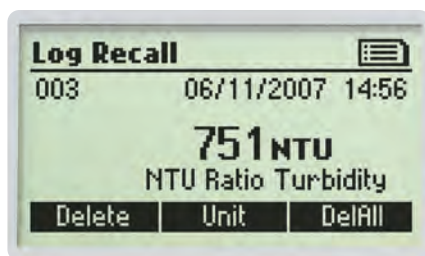
Data Logging

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 via USB and HI92000 software.

Tutorial Mode

Tutorial mode provides additional information to help 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.

Specifications		HI88713
FNU Mode	Range	0.00 to 1000 FNU
	Resolution	0.01 (0.00 to 9.99 FNU); 0.1 (10.0 to 99.9 FNU); 1 (100 to 1000 FNU)
	Accuracy	±2% of reading plus stray light
FAU Mode	Range	10.0 to 4000 FAU
	Resolution	0.1 (10.0 to 99.9 FAU); 1 (100 to 4000 FAU)
	Accuracy @25°C/77°F	± 10% of reading
NTU Ratio Mode	Range	0.00 to 4000 NTU; 0.00 to 980 EBC
	Resolution	0.01 (0.00 to 9.99 NTU); 0.1 (10.0 to 99.9 NTU); 1 (100 to 4000 NTU) / 0.01 (0.00 to 9.99 EBC); 0.1 (10.0 to 99.9 EBC); 1 (100 to 980 EBC)
	Accuracy	±2% of reading plus stray light; ±5% of reading above 1000 NTU
NTU Non-ratio Mode	Range	0.00 to 1000 NTU; 0.00 to 245 EBC
	Resolution	0.01 (0.00 to 9.99 NTU); 0.1 (10.0 to 99.9 NTU); 1 (100 to 1000 NTU) / 0.01 (0.00 to 9.99 EBC); 0.1 (10.0 to 99.9 EBC); 1 (100 to 245 EBC)
	Accuracy @25°C/77°F	±2% of reading plus stray light
Additional Specifications	Range Selection	automatic
	Repeatability	±1% of reading or stray light, whichever is greater
	Stray Light	< 0.1 NTU (0.05 EBC)
	Light Detector	silicon photocell
	Light Source	IR LED
	Method	ISO 7027 method
	Measuring Mode	normal, average, continuous.
	Turbidity Standards	<0.1, 15, 100, 750 FNU and 2000 NTU
	Calibration	two, three, four or five-point calibration
	Log Memory	200 records
	Serial Interface	USB
	Environment	0°C to 50°C (32 to 122°F); max 95% RH non-condensing
	Power Supply	12 Vdc
	Dimensions / Weight	230 x 200 x 145 mm (9 x 7.9 x 5.7") / 2.5 Kg (88 oz.)

Ordering Information: **HI88713-01** (115V) and **HI88713-02** (230V) are supplied with sample cuvettes and caps (6), calibration cuvettes (HI88713-11), silicone oil (HI98703-58), cuvette wiping cloth, power adapter and instruction manual.