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Turbidity

HI98703

Turbidity Meter

*Fast Tracker™ Technology,
EPA Compliant*

The HI98703 Precision Turbidity Portable Meter is specially designed for water quality measurements, providing reliable and accurate readings, especially in the low turbidity range. 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.

EPA meters

EPA Compliant Measurement

The HI98703 meets and exceeds the requirements of EPA and Standard Methods for turbidity measurements. When the meter is in EPA mode all turbidity readings are rounded accordingly 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.

Multiple reading modes

Normal, continuous, 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.

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.

GLP Data

The HI98703 features complete GLP (Good Laboratory Practice) functions that allow traceability of the calibration conditions. Data includes calibration points, date, and time.
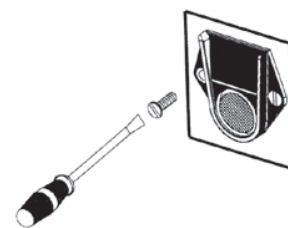
Data Logging

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 port and the HI92000 software.

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FastTracker™
location traceability

iButton® Tags are Easy to Install

Install tags near your sampling points for quick and easy iButton® readings. Each tag contains a computer chip with a unique identification code encased in stainless steel. You can install a practically unlimited amount of tags.

HI920005 Tag holders with tags (5)

Fast Tracker™

For advanced field applications, the HI98703 is equipped with Fast Tracker™ Tag Identification System (T.I.S.) that makes data collecting and management simpler than ever. Fast Tracker™ allows users to record the time and location of a specific measurement or series of measurements using iButton® tags near sampling points for quick and easy readings. Each iButton® tag contains a computer chip with a unique identication code encased in stainless steel.

Specifications	HI98703
Range	0.00 to 9.99 NTU; 10.0 to 99.9 NTU; 100 to 1000 NTU
Range Selection	automatic
Resolution	0.01; 0.1; 1
Accuracy	±2% of reading plus 0.02 NTU
Repeatability	±1% of reading or 0.02 NTU, whichever is greater
Stray Light	< 0.02 NTU
Light Detector	silicon photocell
Light Source	tungsten filament lamp
Lamp Life	greater than 100,000 readings
Method	ratio nephelometric method (90° and 180°), ratio of scattered and transmitted light; adaptation of the USEPA method 180.1 and standard method 2130 B
Measuring mode	normal, average, continuous
Turbidity Standards	<0.1, 15, 100 and 750 NTU
Calibration	two, three or four-point calibration
Log Memory	200 records
Serial Interface	USB or RS232
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Power Supply	1.5V AA alkaline batteries (4) or AC adapter; auto-off after 15 minutes of non-use
Dimensions / Weight	224 x 87 x 77 mm (8.8 x 3.4 x 3.0") / 512 g (18 oz.)

Ordering Information

HI98703-01 (115V) and **HI98703-02** (230V) are supplied with iButton® tags with tag holders (5), sample cuvettes and caps (5), calibration cuvettes, silicone oil (HI98703-58), cuvette wiping cloth, batteries, AC adapter, instruction manual, instrument quality certificate, and rugged carrying case.

Power connector

USB

RS232

Fast Tracker™