

# Logging Turbidity Meters, ISO



HI 93703 series are microprocessor based turbidity meters that provide laboratory accuracy for field turbidity measurements.

The HI 93703 is easy to calibrate (with 3 point calibration) using AMCO-EPA standards and is ISO 7027 compliant.

HANNA instruments has chosen 10 FTU\* as the calibration point because it is the value that best fits the water turbidity measurements in different applications, from drinking water to wastewater treatment. HANNA instruments uses the primary standard AMCO-AEPA-1 to avoid all formazine-related problems. Formazine is a very toxic, unstable substance which requires particular care: its standards have to be prepared only a few minutes before performing the calibration, and cannot be reused because of their short life. HANNA AMCO-AEPA-1 standards are extremely stable, can be reused, and last up to six months if free from contamination. HI 93703 can be used with both standards.

The HI 93703-11 enhanced version features a real-time clock, logging for up to 199 measurements and PC compatibility via the RS232 interface and Windows® compatible HI 92000 software.

Both versions meet the requirements of GLP (Good Laboratory Practice) protocols for last calibration data storage.

SPECIFICATIONS	HI 93703
Range	0.00 to 50.00 FTU* 50 to 1000 FTU*
Resolution	0.01 FTU* (0.00 to 50.00 FTU) 1 FTU (50 to 1000 FTU)
Accuracy @25°C/77°F	±0.5 FTU or ±5% of reading (whichever is greater)
Calibration	three points (0 FTU, 10 FTU and 500 FTU)
Light Source	infrared LED
Light Detector	silicon photocell
Battery Type / Life	1.5V AA (4) /approximately 60 hours of continuous use or 900 measurements; auto-off after 5 minutes of non-use
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.)

### HI 93703-11

Same as HI 93703 with additional features:

Data Logging	199 measurements, on-demand
PC Connection	through serial port and HI 92000 Windows® compatible software (not included)
Real Time Clock	yes

### ORDERING INFORMATION

HI 93703 is supplied complete with glass cuvette, batteries and instructions.

HI 93703-11 is supplied complete with glass cuvette, batteries and instructions.

HI 93703C, kit including HI 93703 and HI 731313 maintenance kit.

### SOLUTIONS

HI 93703-0 AMCO-AEPA-1@ 0 FTU calibration solution, 30 mL

HI 93703-05 AMCO-AEPA-1 @ 500 FTU calibration solution, 30 mL

HI 93703-10 AMCO-AEPA-1 @ 10 FTU calibration solution, 30 mL

### ACCESSORIES

HI 731313 Maintenance kit: rugged carrying case including HI 93102-0 and HI 93102-20 calibration solutions, HI 93703-50 cuvette cleaning solution, cuvettes (2) and cuvette cleaning cloth

HI 731318 Cuvette cleaning cloth (4)

HI 731321 Spare glass cuvettes (4)

HI 92000 Windows® compatible software

HI 920011 Serial cable (5 to 9 pin) for PC connection

\*HI 93703 has been designed according to the ISO 7027 International Standard, consequently the turbidity unit is the FTU (Formazine Turbidity Unit). FTU is equivalent to the other internationally recognized unit: NTU (Nephelometric Turbidity Unit).

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