

# Turbidity Meter

## ISO Compliant

- Positive-locking system ensures cuvette is firmly placed in the cell
- Auto shut-off
- Logging and real time clock (HI93703-11)

The HI93703 turbidity meter is a portable, microprocessor-based instrument used to determine the turbidity of water and wastewater with high precision in the field as well as in the laboratory. The meter is very simple to use and troubleshooting functions can be performed with displayed error code guides.

The HI93703 covers a 0 to 1000 FTU range in two scales: 0.00 to 50.00 FTU and 50 to 1000 FTU. The auto-ranging feature sets the appropriate range for the measurement.

The HI93703-11 adds a real time clock, logging for up to 199 measurements and PC compatibility.

The HI93703 has been designed according to the ISO7027 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).

The one-point calibration at 10 FTU\* can be easily performed using the available standard. Hanna 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 can-not be reused because of their short life. The HI93703 can be used with both standards.



### Specifications

### HI93703

|                     |  |
|---------------------|--|
| Range               | 0.00 to 1000 FTU*  |
| Resolution          | 0.01 (0.00 to 50.00 FTU); 1 (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 / Life | infrared LED / Life of instrument  |
| 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.)  |
|                     | <b>HI93703-11</b>  |
| Data Logging        | 199 measurement, on-demand   |
| PC Connection       | through RS232 and HI92000 PC software (optional)   |
| Real Time Clock     | yes  |

### Ordering Information

**HI93703** is supplied complete with glass cuvette, batteries and instructions.

**HI93703C**, includes HI93703 meter, HI731313 maintenance kit (consisting of: cuvettes with caps (2), HI93703-0 AMCO-AEPA-1 0 FTU calibration solution (30 mL), HI93703-10 AMCO-AEPA-1 10 FTU calibration solution (30 mL), HI93703-05 AMCO-AEPA-1 500 FTU calibration solution (30 mL), cuvette wiping cloth, batteries, rugged carrying case and instructions.

**HI93703-11** is supplied complete with glass cuvette, batteries and instructions in a rugged carrying case.

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