

TURBIDITY METER

Microprocessor-based turbidity meters provide lab-grade accuracy even in the field. With a few keys these meters measure turbidity from 0 to 1000 FTU (NTU). For best accuracy, the HI 93703 measures from 0 to 50 FTU in steps of 1/100th of FTU. This is 10 times better than comparable models on the market which measure 10 to 50 FTU only in decimal points !

HI 93703 is the only portable turbidity meter equipped with an infrared LED as a light source. Unlike standard lamps, the infrared LED has a long life. More significantly, it maintains constant emission for the entire life of the instrument. The wavelength peaks at 890 nm, which provides the required intensity of diffused light even in samples with low turbidity values, and also reduces the interference from colors.

All operations can be carried out with a few keys and troubleshooting functions can be performed with error codes on LCD.



Meter HI 93703 and maintenance kit HI 731313

Features

- The most competitive price on the market for measuring turbidity
- Now also with RS-232 & log-on-demand
- The meter's versatility and durability ensure low maintenance
- The meter is very easy to use
- Following models are available :
 - HI 93703 portable turbidity meter supplied with measurement cuvet and cap, 4 x 1.5 V AA batteries and instruction manual
 - HI 93703-11 portable turbidity meter supplied with measurement cuvet, RS-232 and cap, 4 x 1.5 V AA batteries and instruction manual
 - HI 93703C is comprised of HI 93703 complete with HI 731313 maintenance kit

Physical specifications

Dimensions

22 x 8 x 6.5 cm (LxWxH)

Net Weight

510 g

Options

- *HI 731321*
Measurement cuvetts (4 pcs.)
- *HI 731313*
Rugged carrying case with cal. solutions HI 93703-0 and HI 93703-10, HI 93703-50 cleaning solution, HI 731318 tissue for wiping cuvetts, 2 measurement cuvetts
- *HI 93703-0*
AMCO-EPA-1 cal. sol. @ 0 FTU (30 ml)
- *HI 93703-05*
AMCO-EPA-1 cal. sol. @ 500 FTU (30 ml) for HI 93703-11 only
- *HI 93703-10*
AMCO-EPA-1 cal. sol. @ 10 FTU (30 ml)
- *HI 93703-50*
Cleaning solution for cuvetts (230 ml)
- *HI 731318*
Tissue for wiping cuvetts (4 pcs)

Standards

ISO 7027



Performance data

Range

0.00 to 50.00 FTU / 50 to 1000 FTU

Resolution

0.01 / 1 FTU

Accuracy

± 0.5 FTU or ± 5 % of reading (whichever is greater)

Typical EMC deviation

± 2 % full scale

Light source / Life

High emission infrared LED / Life of the instrument

Light detector

Silicon photocell

Computer interface

RS-232 with optional HI 92000 software (HI 93703-11 only)

Battery type / Life

4 x 1.5 V AA batteries, 60 hours or 900 measurements, auto-shut off after 5 minutes

Environment

0 to 50 °C, RH 95 %

Agent