



**FastTracker™**  
location traceability

HI98713

## Turbidity Meter

with Fast Tracker™ Technology, ISO

The HI98713 Precision ISO Turbidity Portable Meter is specially designed for water quality measurements, providing reliable and accurate readings, even within low turbidity ranges.

### Ratio Measurement Mode

The HI98713 measures turbidity using the ratio method with a 90° and 180° light detector for accurate measurements.

### Multiple reading modes

Normal, continuous, or signal averaging measurement reading modes available.

### ISO Compliant

The HI98713 meets and exceeds the requirements of ISO 7027 method for turbidity measurements by use of an infrared LED light source.

### Calibration

The HI98713 has a powerful calibration function that compensates for variation in light intensity. A two, three, or four-point turbidity calibration can be performed by using the supplied (<0.1, 15, 100 and 750 FNU) 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 HI98713 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 USB or RS232 port and the HI92000 software.

### Fast Tracker™

For advanced field applications, the HI98713 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 identification code encased in stainless steel.

### 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              | HI98713                                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 0.1 FNU                                                                                                                                                                                                               |
| Range Selection             | automatic                                                                                                                                                                                                                                 |
| Repeatability               | ±1% of reading or 0.01 FNU, whichever is greater                                                                                                                                                                                          |
| Stray Light                 | < 0.1 FNU                                                                                                                                                                                                                                 |
| IR Detector                 | silicon photocell                                                                                                                                                                                                                         |
| Light Source                | 860 nm infrared LED                                                                                                                                                                                                                       |
| Lamp Life                   | greater than 100,000 readings                                                                                                                                                                                                             |
| Method                      | adaptation of ISO 7027, ratio method with 90° and 180° detector                                                                                                                                                                           |
| Measuring Mode              | normal, average, continuous.                                                                                                                                                                                                              |
| Turbidity Standards         | <0.1, 15, 100 and 750 FNU                                                                                                                                                                                                                 |
| 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.)                                                                                                                                                                                      |
| <b>Ordering Information</b> | <b>HI98713-01</b> (115V) and <b>HI98713-02</b> (230V) is supplied with sample cuvettes and caps (5), calibration cuvettes, silicone oil (HI98703-58), cuvette wiping cloth, batteries, AC adapter, instructions and rugged carrying case. |

## HI93102 Solutions and Accessories

| Reagent Code | Description                                              |
|--------------|----------------------------------------------------------|
| HI93102-0    | AMCO-AEPA-1 calibration solution, 0 NTU, 30 mL bottle    |
| HI93102-20   | AMCO-AEPA-1 calibration solution, 20 NTU, 30 mL bottle   |
| HI93701-01   | free chlorine (Cl <sub>2</sub> ) reagent kit, 100 tests  |
| HI93701-03   | free chlorine (Cl <sub>2</sub> ) reagent kit, 300 tests  |
| HI93710-01   | pH reagent kit, 100 tests                                |
| HI93710-03   | pH reagent kit, 300 tests                                |
| HI93711-01   | total chlorine (Cl <sub>2</sub> ) reagent kit, 100 tests |
| HI93711-03   | total chlorine (Cl <sub>2</sub> ) reagent kit, 300 tests |
| HI93716-01   | bromine (Br) reagent kit, 100 tests                      |
| HI93716-03   | bromine (Br) reagent kit, 300 tests                      |
| HI93718-01   | iodine (I) reagent kit, 100 tests                        |
| HI93718-03   | iodine (I) reagent kit, 300 tests                        |
| HI93722-01   | cyanuric acid (CYAC) reagent kit, 100 tests              |
| HI93722-03   | cyanuric acid (CYAC) reagent kit, 300 tests              |
| HI93746-01   | iron (Fe) low range reagent kit, 100 tests               |
| HI93746-03   | iron (Fe) low range reagent kit, 300 tests               |

| Accessory Code | Description                       |
|----------------|-----------------------------------|
| HI920005       | tag holders with tags (5)         |
| HI93703-50     | cuvette cleaning solution, 230 mL |
| HI731318       | cuvette wiping cloth (4)          |
| HI731321       | spare glass cuvettes, small (4)   |

See page HI93102 on page 12.16

## HI98713 Standards and Accessories

| Reagent Code | Description                                                 |
|--------------|-------------------------------------------------------------|
| HI98713-11   | turbidity calibration standards (<0.1, 15, 100 and 750 FNU) |

| Accessory Code | Description                       |
|----------------|-----------------------------------|
| HI920005       | tag holders with tags (5)         |
| HI93703-50     | cuvette cleaning solution, 230 mL |
| HI98703-58     | silicone oil, 15 mL               |
| HI731318       | cuvette wiping cloth (4)          |
| HI731331       | glass cuvettes, large (4)         |
| HI731335N      | caps for cuvettes, large (4)      |
| HI92000        | Windows® compatible software      |
| HI920013       | USB cable for PC connection       |
| HI920011       | 5 to 9 pin RS232 connection cable |

See page HI98713 on page 12.17

## HI88713 Standards and Accessories

| Reagent Code | Description                                                           |
|--------------|-----------------------------------------------------------------------|
| HI88713-11   | turbidity calibration standards (<0.1, 15, 100, 750 FNU and 2000 NTU) |

| Accessory Code | Description                             |
|----------------|-----------------------------------------|
| HI93703-50     | cuvette cleaning solution, 230 mL       |
| HI98703-58     | silicone oil, 15 mL                     |
| HI731318       | cuvette wiping cloth (4)                |
| HI731331       | glass cuvettes, large (4)               |
| HI731335N      | caps for cuvettes, large, turbidity (4) |
| HI92000        | Windows® compatible software            |
| HI920013       | USB cable for PC connection             |
| HI920011       | 5 to 9 pin RS232 connection cable       |

See page HI88713 on page 12.18

## HI93703 Standards and Accessories

| Reagent Code | Description                                              |
|--------------|----------------------------------------------------------|
| HI93703-0    | AMCO-AEPA-1 calibration solution, 0 FTU, 30 mL bottle    |
| HI93703-05   | AMCO-AEPA-1 calibration solution, 500 FTU, 30 mL bottle  |
| HI93703-10   | AMCO-AEPA-1 calibration solution at 10 FTU, 30 mL bottle |

| Accessory Code | Description                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI731313       | maintenance kit: rugged carrying case containing HI93703-0, HI93703-05 and HI93703-10 calibration standards, cuvettes with caps (2) and cuvette wiping cloth |
| HI93703-50     | cuvette cleaning solution, 230 mL                                                                                                                            |
| HI98703-58     | silicone oil, 15 mL                                                                                                                                          |
| HI731318       | cuvette wiping cloth (4)                                                                                                                                     |
| HI731321       | spare glass cuvettes, small (4)                                                                                                                              |

See page HI98703 on page 12.20



# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

**[www.wolflabs.co.uk](http://www.wolflabs.co.uk)**

**Tel : 01759 301142**

**Fax : 01759 301143**

**[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)**

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