

# CONTINUOUS MONITORING ON-LINE TURBIDIMETER



On-Line Software



## ON-LINE TURBIDIMETER

This turbidimeter is specifically designed for measuring turbidity continuously for filtered or raw water and to meet regulations of the EPA and ISO 7027. Features include fast and easy calibration, verification in seconds, low maintenance, fail-safe design which ensures your instrument is always reading accurately, bubble rejection system, and a data acquisition software system that allows logging and datalogging for multiple turbidimeters. Low volume sample chamber (30 ml) reduces calibration costs and provides quick response times. Removable sample cuvettes allow for easy cleaning and calibrating. Optics are not in contact with sample which reduces chances of false low readings. Optional features include: On-line software & remote display which allows for remote monitoring up to 500 ft away.

**TH-200**                      **1386.00/ea**

### Accessories & Options for the Above

Description	NCL #	Price/ea
Primary calibration kit, 0.02, 10, & 1000 NTU	<b>TH-957</b>	<b>195.00</b>
Flow through assembly	<b>TH-121</b>	<b>386.00</b>
Inline flow regulator (recommended for pressurized system)	<b>TH-778</b>	<b>200.00</b>
Remote display	<b>TH-609</b>	<b>442.00</b>
Converter, RS485 to RS232	<b>TH-787</b>	<b>440.00</b>
Online software kit for up to 32 stations	<b>TH-783</b>	<b>2895.00</b>
Replacement white light lamp assembly	<b>TH-082</b>	<b>81.50</b>
Replacement tubing kit	<b>TH-062</b>	<b>137.00</b>
Replacement flow through cuvet	<b>TH-036</b>	<b>44.00</b>
Replacement desiccant tray refill	<b>TH-555</b>	<b>38.00</b>

**LABORATORY TURBIDIMETER**

This laboratory turbidimeter meets performance criteria specified by USEPA method 180.1 for NTU measurement. Includes a complete set of calibration standards (0.02, 10, and 1000 NTU), two measuring cuvetts with light shield cap, operator's manual, and 110VAC power adapter.

- \* Auto ranging from 0-1000 NTU
- \* Resolution of 0.01 NTU
- \* Instrument prompts when calibration is needed
- \* Simple calibration procedures
- \* RS232 output



**TH-100 995.00/ea**

**Accessories & Options for the Above**

Description	NCL #	Price
Calibration set (0.02, 10, and 1000 NTU)	<b>TH-957</b>	<b>195.00/ea</b>
Cuvets 28 x 70 mm includes caps (3/pk)	<b>TH-051</b>	<b>65.00/pk</b>
Cuvet stand, holds 11 cuvetts	<b>TH-981</b>	<b>52.00/ea</b>
Replacement lamp assembly	<b>TH-972</b>	<b>78.00/ea</b>

**Turbidity Standards**

NTU	Size	NCL #	Price
0.0	125 ml	NTU-0-125	<b>20.50</b>
	250 ml	NTU-0-250	<b>26.30</b>
	500 ml	NTU-0-500	<b>38.20</b>
	Liter	NTU-0-Liter	<b>50.10</b>
	Gallon	NTU-0-3.8	<b>135.20</b>
0.1	125 ml	NTU-X1-125	<b>44.20</b>
	250 ml	NTU-X1-250	<b>56.80</b>
	Liter	NTU-X1-Liter	<b>90.60</b>
	Gallon	NTU-X1-3.8	<b>294.60</b>
0.5	125 ml	NTU-X5-125	<b>44.20</b>
	250 ml	NTU-X5-250	<b>56.80</b>
	500 ml	NTU-X5-500	<b>73.60</b>
	Liter	NTU-X5-Liter	<b>90.60</b>
	Gallon	NTU-X5-3.8	<b>294.60</b>
1.0	125 ml	NTU-1-125	<b>44.20</b>
	250 ml	NTU-1-250	<b>56.80</b>
	Liter	NTU-1-Liter	<b>90.60</b>
	Gallon	NTU-1-3.8	<b>294.60</b>

NTU	Size	NCL #	Price
4.0	125 ml	NTU-4-125	<b>48.30</b>
	250 ml	NTU-4-250	<b>62.20</b>
	Liter	NTU-4-Liter	<b>99.30</b>
	Gallon	NTU-4-3.8	<b>303.40</b>
	10	125 ml	NTU-10-125
250 ml		NTU-10-250	<b>62.20</b>
500 ml		NTU-10-500	<b>80.80</b>
Liter		NTU-10-Liter	<b>99.30</b>
Gallon		NTU-10-3.8	<b>303.40</b>
20	125 ml	NTU-20-125	<b>48.30</b>
	250 ml	NTU-20-250	<b>62.20</b>
	500 ml	NTU-20-500	<b>80.80</b>
	Liter	NTU-20-Liter	<b>99.30</b>
	Gallon	NTU-20-3.8	<b>303.40</b>
40	125 ml	NTU-40-125	<b>48.30</b>
	250 ml	NTU-40-250	<b>62.20</b>
	500 ml	NTU-40-500	<b>80.80</b>
	Liter	NTU-40-Liter	<b>99.30</b>
	Gallon	NTU-40-3.8	<b>303.40</b>



# Turbidity

# Portable - Bench



## TB300 LAB TURBIDIMETER

Using an infrared light source and 90° detection, the TB300 conforms with ISO 7027 specifications for turbidity measurement of colored and color-free samples.

The auto-ranging function automatically selects the correct range for turbidity measurement from 0.01 to 1100 NTU. The data-logging feature enables the user to store up to 1,000 data sets with the date, time, and registration number.

This instrument is power efficient and can be operated on seven NiCd rechargeable batteries or with a wall plug adapter.

Includes: instrument, two sample cells, batteries, calibration set, operator's manual, and carrying case.

**TB-300 1295.00/ea**

## TB200 PORTABLE TURBIDIMETER



Using a "white light" source and 90° detection, the TB200 meets the specifications for EPA turbidity measurement (EPA Standard 180.1).

- \* Range: 0-1100 NTU
- \* Accuracy: 0-500 NTU ±2%
- \* Light Source: Tungsten Lamp
- \* Conformance: USEPA Method 180.1
- \* Power Supply: 4-AA Batteries (included)

Includes: instrument, 2 sample cells, batteries and calibration set in a convenient carrying case.

**TB-200 775.00/ea**

## ACCESSORIES FOR PORTABLE TURBIDIMETER

Description	NCL #	Price/ea
Sample cells (pack of 3)	TB-205	40.20
Calibration Set (0.02, 10.0, and 1000 NTU)	TB-206	203.90

# HAND-HELD TURBIDITY/CHLORINE METER

## EPA COMPLIANT

Combines turbidity and colorimetric measurements to measure the most important parameters of drinking water: turbidity and free/total chlorine.

Meets and exceeds the requirements of USEPA and Standard Methods both for turbidity and colorimetric measurements. For the colorimeter range, the optical system is based on the turbidimeter tungsten lamp and a separate detector with a narrow band interference filter @ 525 nm.

For turbidity, a two, three or four-point calibration is available using supplied (<0.1, 15, 100 and 750 NTU adjustable calibration points) or user prepared standards. For colorimeter measurements, a one-point calibration can be performed. The last calibration points, time and date can be checked by a single key touch. Meter has a user-friendly interface with an easy to read LCD. Up to 200 measurements can be stored in internal memory and consulted at any time. Data can be further stored and analyzed by transferring it to a PC via RS232 or USB interface and HANNA software (optional). Power Supply (4) 1.5V AA alkaline batteries or AC adapter; Auto-off after 15 minutes of non-use.



### **TURBIDITY**

- Range: 0.00 to 9.99; 10.0 to 99.9 and 100 to 1000 NTU
- Accuracy:  $\pm 2\%$  of reading plus 0.02 NTU
- Repeatability:  $\pm 1\%$  of reading or 0.02 NTU, whichever is greater
- Stray Light: < 0.02 NTU
- Light Detector: Silicon Photocell
- Method Ratio: Nephelometric Method (90°), Adaptation of the USEPA Method 180.1 and Standard Method 2130 B.
- Calibration: Two, three or four-point calibration

### **FREE & TOTAL CHLORINE**

- Range: Free Cl<sub>2</sub> 0.00 to 5.00 mg/l; Total Cl<sub>2</sub> 0.00 to 5.00 mg/l
- Resolution: 0.01 mg/l from 0.00 to 3.50 mg/l; 0.10 above 3.50 mg/l
- Accuracy:  $\pm 0.02$  mg/l @ 1.00 mg/l
- Detector: Silicon photocell with 525 nm narrow band interference filter
- Standards: 1 mg/l free chlorine, 1 mg/l total chlorine
- Calibration: One-point calibration

Meter package is supplied with sample cuvetts and caps (5), calibration cuvetts for turbidimeter, calibration cuvetts for colorimeter, silicone oil, cuvet wiping tissue, scissors, batteries (4), AC adapter, instruction manual and rugged carrying case.

**HI-93414 864.90/ea**

