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Turbidity

TB350 Portable Turbidimeter



Laboratory Accuracy Meets Portability

Ideal for field and environmental testing, the TB350 turbidity meter delivers the most reliable measurements for low range to high range samples without sacrificing accuracy.

Key Features of the TB350:

- Reads up to 4000 NTU without the need for dilutions
- Fast Settling Mode increases accuracy of readings with large or heavy particles
- Superior data management - easily save and recall measurement data sets
- Touchscreen interface for ease of operation

TB350 Portable Turbidimeter

The Lovibond® TB Series of turbidimeters offers simplistic operation combined with intelligent instrument engineering to provide an unparalleled level of accuracy in turbidity measurement.

Ideal for field and environmental testing, the TB350 turbidimeter delivers the most reliable measurements for low range to high range samples without sacrificing accuracy. Featuring the patent-pending Multipath 90° BLAC® sensor technology, the optical system is engineered with dual detectors to deliver a ratio reading which mitigates common measurement stability issues.

The intuitive, touchscreen interface makes it easy to perform procedures and interpret results. With function applications, you can navigate between settings and performing that function efficiently. This user interface helps eliminate common frustrations and prevents errors.

The data logging capabilities allow you to record the testing location, operator's identification, time and date along with the measurement. Stored data can be transferred to a computer via USB.

Available in Infrared (IR) or White Light (WL) LED light sources.

All units are supplied ready-to-use with sample cells, silicone oil and calibration standards in carrying case.

Why Lovibond?

At Lovibond®, we look out for the little things that make a big difference. On the surface, turbidity analysis is a simple measurement. However, there are many factors that can affect the accuracy of readings or the dependability of an instrument.

We obsess about turbidity measurement, so you don't have to. Our team of globally recognized turbidity experts work to anticipate and solve operators' struggles with turbidity measurement.



Multipath 90° BLAC®

Our Engineering Experts developed a unique, patented sensor with dual 90° detectors, which both take purely nephelometric measurements. The sophisticated arrangement of the two detectors allows for the analysis of low and high turbidity samples with unsurpassed accuracy.

The detection angle responds consistently to a wide range of particle sizes and shapes in any given sample.

The new **BLAC** technology stands for: **B**ackscattered **L**ight **A**bsorbing **C**avity.

The light-absorbing trap eliminates stray light and provides extremely accurate results for low turbidity down to 0.01 NTU.

Solving Problems & Reducing Errors

The TB350 turbidity meter is designed for use in field. Distribution system monitoring, environmental testing or even labs that test a wide range of samples are ideal applications. The instrument has been designed to include features and tools to prevent users from making common turbidity measurement mistakes and to encourage best practices to ensure the best results.

Animated Procedures

Behold the power of a touchscreen! A fullcolor, graphical user interface illustrates key procedures, such as calibration and verification.

Fast-Settling Mode

Special measurement mode to measure samples that contain heavy (or fast settling) particles. It helps compensate for measurement errors due to the nature of the sample.

Calibration Checker

Special feature to prevent a calibration error due to the use of an improper standard value.



Excellent Data Management

The TB Series of turbidimeters brings portable instrument record keeping into the 21st century. These instruments create 3 different types of logs: Measurement logs, Calibration logs and Verification logs. Each type of log creates a record of all the relevant information for that type of action and it's easy to export that data.

Simply plug any standard USB drive into the USB-A port on the instrument (USB connection is standard - no upgrade required!) and choose the log - or logs - you want to export. The instrument exports directly to the USB drive in CSV format - no special cables, middleware or software programs needed.



Handy Accessories



Rechargeable Battery Pack

Don't get caught in the field with a dead battery!



Power Supply

Plug the TB350 in to recharge the battery pack, or use it as a lab instrument. USB-C cable included.



Vial Rack

Keep your samples organized in the lab or out in the field.

TB350 Portable Turbidimeter



All TB350 instruments come factory calibrated and ready-to-use out of the box. All kits include:

- Instrument (WL or IR)
- Set of ready-to-use T-CAL® turbidity standards in sealed vials for calibration
- 5 NTU T-CAL® turbidity standard in sealed vial for verification
- Silicone oil
- Cleaning cloth
- Brush for sample vials
- Sample cells with black lids (2)
- Screwdriver
- AA Batteries (4)
- Multi-lingual Quick Start Guide
- Carrying case with removable insert

Ordering Information

Item	Part Number
TB350 WL Portable Turbidimeter Kit Supplies listed above	194310
TB350 IR Portable Turbidimeter Kit Supplies listed above	194300
Calibration Kit for TB350 WL Includes: 5/20/800/2000/4000 NTU standards	194152
Calibration Kit for TB350 IR Includes: 5/20/800/4000 NTU standards	194154
Sample Cells, pack of 12 with black lids	197655
Silicone Oil, 15 mL	194295
Rechargeable Battery Pack	19820-011
Brush	380230
Microfiber Cleaning Cloth	197635
AA Batteries, pack of 4	1950025
Vial Stand acrylic; for 6 vials	418951
Power Supply Set Includes brick, set of adapters (US, EU, UK, XXX) and USB-C Cable	19820-170
Cable, USB-C Male-to-Male (USB-C to A)	19820-081
Replacement Lid, TB Series	19820-095
Replacement Cover for Battery Compartment	19820-098
Replacement Plug for USB Ports	19820-084
Carrying Case, TB Series Includes upper foam + plastic insert	19820-130

Specifications

Range	0-4000 NTU (FNU)
Light Source	TB350 IR: 860 nm LED TB350 WL: White LED
Regulatory Compliance	TB350 IR: ISO 7027 TB350 WL: US EPA (alternative to 180.1)
Measurement Method	Nephelometric (MultiPath 90° BLAC™)
Units	NTU, FNU, Degrees, mg/L Kaolin, mg/L PSL
Resolution	Auto-Ranging: 0.01 - 9.99: 0.01 NTU 10.0 - 99.9: 0.1 NTU 100 - 4000 NTU: 1 NTU
Repeatability	Better than 1% or ±0.01 NTU
Accuracy	±1.8% of reading + stray light
Stray Light	< 0.014 NTU
Response Time	7 seconds
Ratio Mode	Yes
Sample Cell Requirement	24 mm diameter x 55 mm height
Data Logging	250 Measurements + all calibrations, verifications and factory-restore actions
Data Transfer	Via USB-A to USB drive
Display Size	5.5 x 9.5 cm
Display Description	Full-Color Touchscreen
Enclosure Rating	IP67
Communication Interfaces	USB-A, USB-C
Instrument Weight	804 g (without batteries) 898 g (with batteries)
Instrument Dimensions	15.5 x 8.3 x 22.5 cm (W x H x D)
Use Model	Portable
Warranty	2 Years (manufacturing defects only)
Compliance	CE

Tintometer Inc.
Tel: +1 941 756 6410
info@lovibond.us
U.S.A.

Fox Scientific, Inc.
Tel: 817 783 7500
sales@foxscientific.com
U.S.A.

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