



# Turbidity

## Competence in turbidity

**New!**

Using Multipath 90°  
BLAC® technology\*

\* BLAC® Backscattered Light Absorbing Cavity



## TB350: Get lab accuracy as portable solution for turbidity measurement

Lovibond®'s newest turbidimeter is portable with the capabilities of a laboratory instrument and covers a unique turbidity range: Turbidity measurement has never been easier!

### Discover unbeatable innovation:

- Innovative straylight elimination
- Highest accuracy over the complete range
- Outstanding convenience
- Compliant with regulatory standards

# TB350 turbidimeter

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 recognised turbidity experts work to anticipate and solve operators' struggles with turbidity measurement.



## The darker the better

**Our experts** solved two fundamental problems in turbidity measuring in a patented and unprecedented way. The sophisticated arrangement of the two detectors allows the analysis of low and high turbidity samples with unsurpassed accuracy over the complete measuring range up to 4000 NTU. The angle of detection stays at 90° over the entire range, so this method remains purely nephelometric. This ensures consistent results at any time, regardless of the size and shape of the turbidity-causing particles. The light-absorbing trap (BLAC®) eliminates stray light perfectly and provides extremely accurate results for low turbidity down to 0.01 NTU.

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

*elimination of stray light  
by light absorbing traps  
(BLAC®)*

*multipath  
nephelometric  
detection*

*patented  
state-of-  
the-art  
optical  
system*

## TB350 IR & TB350 WL

for lab accuracy as portable solution

- Available with infrared & white light LED
- Easy, full-colour touchscreen, user interface that provides animated & guided procedures and straightforward data management
- Multi-lingual graphical interface
- Delivers superior accuracy at low & high turbidities

### Why buy

- Combines a state-of-the-art optical system with ease of use & flexibility
- 90° nephelometric detection over the complete measuring range from 0.01 up to 4000 NTU
- Visual alert if the reading is out of tolerance
- High performance optics to ensure accuracy
- Supplied ready-to-use with sample cells, silicone oil and T-CAL® calibration standards
- 3 different modes: Single, Signal Averaging, Fast-Settling

**Code TB350 IR:** 194300

**Code TB350 WL:** 194310

*guided  
& animated  
procedure*

*full-colour  
touchscreen display*

## All you need in one case



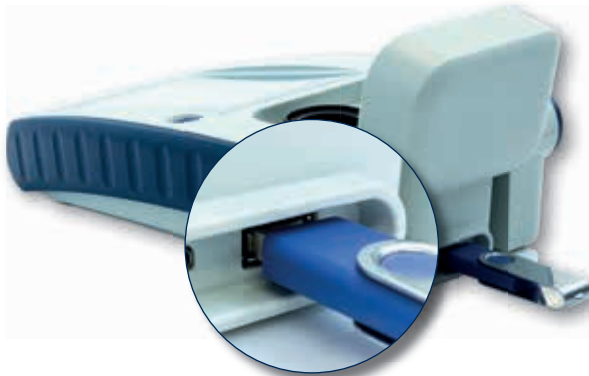
Take it or leave it: The TB350 turbidity meter is ideal for portable use in field applications such as water distribution systems monitoring and laboratories that test a wide range of samples.

- Set of ready-to-use T-CAL® calibration & verification standards
- Silicone oil
- Cleaning cloth
- Brush for sample vials
- Sample cells with black lids
- Screwdriver
- Plastic inlay usable as a tray

### Turbidity Standard Kit

194152 T-CAL® Turbidity Standard Kit for TB350 WL  
(5 / 20 / 800 / 2000 / 4000 NTU)

194154 T-CAL® Turbidity Standard Kit for TB350 IR (5 / 20 / 800 / 4000 NTU)



### Data transfer made easy

Plug & play: Share your measurement results via USB flash drive: simply connect the stick to the USB-A port on the back of the unit.

ISO & US EPA  
compliant

Technical data	TB350 IR	TB350 WL
Light source	Infrared LED	White light LED
Conformity	ISO 7027	US EPA
Measuring Principle	nephelometric	
Range (NTU)	0–4000	
Resolution (max.)	0.01	
Accuracy	± 1.8 % + Straylight	
Straylight	< 0.014 NTU	
Display	Colour Graphic Touchscreen	
Data Transfer	via USB Interface	
Data logger	250 Measurements + all calibrations, verifications & factory-restore actions	
Power supply	4 x AA batteries (optional: NiMH battery pack, optional: Mains adapter (USB-C))	
Application	Drinking water / Field / Environmental / Laboratories	
Laboratory use	✓	
Portable use	✓	
Dimensions	15.5 x 8.3 x 22.5 cm	
Weight	804 g (without batteries), 898 g (with batteries)	

# Our T-CAL<sup>®</sup> primary standards for you

## T-CAL<sup>®</sup> long time stable turbidity standards for calibration & verification of any turbidimeter

Get the whole range of formazin based turbidity primary standards for turbidimeters of any manufacturer with our T-CAL<sup>®</sup> series. Ready to use, prepared in a wide variety of packaging sizes.



Single Standard	Quantity	Code				
T-CAL <sup>®</sup> -Standard <0.1 NTU	125 mL	48012012	500 mL	48012050	1000 mL	48012099
T-CAL <sup>®</sup> -Standard 0.3 NTU			500 mL	48011050		
T-CAL <sup>®</sup> -Standard 1.0 NTU	125 mL	48011112	500 mL	48011150	1000 mL	48011199
T-CAL <sup>®</sup> -Standard 5.0 NTU			500 mL	48012250		
T-CAL <sup>®</sup> -Standard 10 NTU	125 mL	48011212	500 mL	48011250		
T-CAL <sup>®</sup> -Standard 20 NTU	125 mL	48012312	500 mL	48012350	1000 mL	48012399
T-CAL <sup>®</sup> -Standard 100 NTU	125 mL	48011512	500 mL	48011550		
T-CAL <sup>®</sup> -Standard 200 NTU	125 mL	48011612	500 mL	48011650		
T-CAL <sup>®</sup> -Standard 800 NTU	125 mL	48011712	500 mL	48011750		
T-CAL <sup>®</sup> -Standard 1000 NTU	125 mL	48011812	500 mL	48011850		
T-CAL <sup>®</sup> -Standard 4000 NTU	125 mL	48012912	500 mL	48012950		

## TB350 website



A special created landing page for you to get the most important information with one click.

## Video tutorial



The easiest way to see how it works. Just watch the video and find out how to use the TB350.

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Printed in Germany 08/22