

# Lovibond® Water Testing Tintometer® Group



## TB 300 IR without lithium battery



Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light). The infrared light-source permits measurement of coloured and colour-free samples. The automatic measurement range detection facility (Aurorange) enables direct turbidity measurement from 0.01 to 1100 NTU with an accuracy of  $\pm 2\%$  up to 500 NTU and  $\pm 5\%$  thereafter. A large graphic display, a choice of several different languages and user-friendly operating instructions make the device extremely easy to use. Software updates (for example: languages) can be downloaded free of charge from our website [www.lovibond.com](http://www.lovibond.com).

- Meets EN ISO 7027
- Automatic overall range adjustment with Standard-Set T-Cal
- Autoranging
- High accuracy

Part Number: 194000

### Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Marine Industry | Municipalities | NGO | Oil and Gas | Pharmaceutical Industry | Power and Energy

### Application

Drinking Water Treatment | Pool Water Control | Waste Water Treatment

### TB 300 IR without lithium battery

Discover the measurement of laboratory measurement with the portable benchtop turbidimeter TB300 IR. It guarantees high accuracy and is able to determine both coloured and colour-free samples with infrared light source, 90° scattered light and automatic measurement range detection.

### Measuring Range

Test Name	Measuring Range
Turbidity	0.01 - 1100 NTU

## Technical Data

<b>Optics</b>	Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light)
<b>Measuring Principle</b>	nephelometric (90° scattered light)
<b>Measuring Range</b>	0.01 - 1100 NTU (Autorange)
<b>Accuracy</b>	± 2 % of reading, or ± 0.01 NTU, whichever is bigger, in the range of 0.01 - 500 NTU ; ± 5 % of reading in the range of 500 - 1000 NTU
<b>Suitable Vials</b>	Round Cuvettes 24 mm
<b>Display</b>	Graphic-Display
<b>Interfaces</b>	RS 232
<b>Operation</b>	acid and solvent resistant; membrane keypad
<b>Auto – OFF</b>	Yes
<b>Calibration</b>	automatic overall range adjustment with Standard-Set T-Cal
<b>Updates</b>	Software update via Internet
<b>Internal Storage</b>	1000 data sets
<b>Power Supply</b>	7 NiMH-battery pack (AA/Mignon) Universal (90 - 240 VAC), via external power supply
<b>Clock</b>	Real Time Clock
<b>Portability</b>	Benchtop
<b>Environmental Conditions</b>	5 - 40 °C at 30 - 90 % relative humidity (non condensing)
<b>Compliance</b>	CE
<b>Dimensions</b>	265 x 195 x 70 mm
<b>Weight</b>	1000 g (incl. batteries)
<b>Weight with Packaging</b>	(incl. batteries)

## Delivery Scope

- Instrument in carrying case
- 1 Set of turbidity standards T-CAL
- Mains charger 100-240 V
- PC Connection cable
- 4 Vials (ø 24 mm) with lids
- Warranty information
- Certificate of Compliance
- Instruction Manual

Title	Part Number
Mains charger, 100-240 V, 50-60 Hz, with international adapters	193010
Set turbidity standards T-CAL (<0,1, 20, 200, 800 NTU)	194150
Lithiumbattery CR2032	1950017
Ni-MH-Akku AA Mignon, 1100 mAh, set of 7	1950020
Cleaning cloth	197635
Sample cuvettes with black lid, Height 55 mm, ø 24 mm, set of 12	197655
Sample chamber lid	19801119
Rubber seal cap, black, TB 300 IR	19801716
Connection cable to a PC, seriell 9-pins	198198
T-CAL®-Standard, 4000 NTU, 125 ml	48012912
T-CAL®-Standard, 4000 NTU, 500 ml	48012950
Factory calibration certificate ISO 9001 for TB210 IR/TB 211 IR/TB300 IR	999765

**Tintometer GmbH**  
Lovibond® Water Testing  
Schleefstraße 8-12  
44287 Dortmund  
Tel.: +49 (0)231/94510-0  
sales@lovibond.com  
www.lovibond.com  
Germany

**The Tintometer Limited**  
Lovibond House  
Sun Rise Way  
Amesbury, SP4 7GR  
Tel.: +44 (0)1980 664800  
sales@lovibond.uk  
www.lovibond.com  
UK

**Tintometer China**  
9F, SOHO II C.  
No.9 Guanghualu,  
Chaoyang District,  
Beijing, 100020  
Customer Care China Tel.: 4009021628  
Tel.: +86 10 85251111 Ext. 330  
Fax: +86 10 85251001  
chinaoffice@tintometer.com  
www.lovibond.com  
China

**Tintometer South East Asia**  
Unit B-3-12, BBT One Boulevard,  
Lebuh Nilam 2, Bandar Bukit Tinggi,  
Klang, 41200, Selangor D.E  
Tel.: +60 (0)3 3325 2285/6  
Fax: +60 (0)3 3325 2287  
lovibond.asia@tintometer.com  
www.lovibond.com  
Malaysia

**Tintometer Brazil**  
Caixa Postal: 271  
CEP: 13201-970  
Jundiaí – SP  
Tel.: +55 (11) 3230-6410  
sales@lovibond.us  
www.lovibond.com.br  
Brazil

**Tintometer Inc.**  
6456 Parkland Drive  
Sarasota, FL 34243  
Tel: 941.756.6410  
Fax: 941.727.9654  
sales@lovibond.us  
www.lovibond.us  
USA

**Tintometer India Pvt. Ltd.**  
Door No: 7-2-C-14, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Floor  
Sanathnagar Industrial Estate,  
Hyderabad, 500018  
Telangana  
Tel: +91 (0) 40 23883300  
Toll Free: 1 800 599 3891/ 3892  
indiaoffice@lovibond.in  
www.lovibondwater.in  
India

**Tintometer Spain**  
Postbox: 24047  
08080 Barcelona  
Tel.: +34 661 606 770  
sales@tintometer.es  
www.lovibond.com  
Spain