# Benchtop Ratio Turbidimeter

**BEP-TB40A BEP-TB20A BEP-TB10A**
**BEP-TB5A BEP-TB2A BEP-TB1A**

## Description

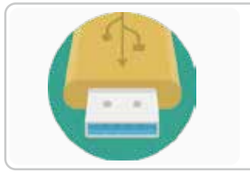
- Turbidimeter is an instrument used to measure the degree of scattering and attenuation of light generated by insoluble particulate matter suspended in water (or transparent liquid), and can quantitatively characterize the content of these suspended particulate matter.It is widely used in waterworks, food, chemical industry, power plant, metallurgy, environmental protection, beverage, wine making, pharmaceutical industry and other departments.And it is a commonly used laboratory instrument.




## Features


- Adopting microcomputer technology,color LCD touch screen display, the operation is more intuitive and convenient.

- With average measurement function; 1000 sets of test data can be stored, and the data can be saved, printed, and uploaded.



- With time and date setting function, USB communication interface and U disk to read data, support to connect to PC for data upload.

- Adopting scattered-transmitted light measuring principle, ratio calibration.
- Automatic range switching, supporting multi-point calibration

### Characteristics

- Measurement of light scatter and decay of the insoluble particles suspended in water or transparent liquids;
- Quantitative analysis of particle contents.

## Specifications

| Model | BEP-TB40A | BEP-TB20A | BEP-TB10A | BEP-TB5A | BEP-TB2A | BEP-TB1A |
|---|---|---|---|---|---|---|
| Light source | Tungsten halogen lamp 6V, 10W | | | | | |
| Receiving element | Silicon photocell | | | | | |
| Measurement range NTU | 0.00~50.0;<br>50.1~200;<br>200.1~2000;<br>2000.1~4000<br>(automatic range switchover) | 0.00~50.0;<br>50.1~200;<br>200.1~2000<br>(automatic range switchover) | 0.00~50.0;<br>50.1~200;<br>200.1~1000<br>(automatic range switchover) | 0.00~50.0;<br>50.1~200;<br>200.1~500<br>(automatic range switchover) | 0.00~50.0;<br>50.1~200<br>(automatic range switchover) | 0.00~50.0;<br>50.1~100<br>(automatic range switchover) |
| Readings display | LCD touch screen | | | | | |
| Minimum reading | 0.001 | | | | | |
| Allowable error of indication | ≤±6% | | | | | |
| Zero Drift | ≤±0.3%FS | | | | | |
| Stability of indication | ≤±1%FS | | | | | |
| Repeatability | ≤0.5% | | | | | |
| Sample bottle | Φ25mm×95mm | | | | | |
| Data storage | 1000 sets | | | | | |
| Calibration modes | 7 | 6 | 5 | 4 | 3 | 3 |
| Sample volume | 30~40mL | | | | | |
| Interface | USB/U disk | | | | | |
| G.W.(kg) | 7.5 | | | | | |
| Overall dimensions | 430mm×430mm×300mm | | | | | |

**Benchtop Ratio Turbidimeter**
CD 1
Power cable 1
USB cable 1
Vial 5
Shade cover 1
User manual 1
Packing list 1

# Portable Turbidity Meter

**BEP-TB20B BEP-TB10B BEP-TB5B BEP-TB2B**
**BEP-TB1B BEP-TB50 BEP-TB20**

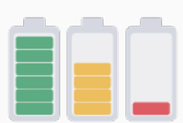
- Accuracy: ≤±6%
- Data storage: 2000 sets
- Unit switches: NTU, FTU, EBC, ASBC
- Measurement range NTU: 0.00-2000; 0.00-1000; 0.00-500; 0.00-200; 0.00-100; 0.00-50; 0.00~20.0


## Features


- LCD, backlight can be set


- Novel appearance, convenient for user in field testing

- Automatic range switchover, supporting-zero-point and four-point calibration, in line with GLP Regulation



- Using four AA batteries, external power supply, automatic power off function





**Turbidity Meters**
Online CD 1
Vial 5
5AA battery 4
USB communication cable 1
User manual 1
Packing list 1
Test report 1

## Specifications

| Model | BEP-TB20B | BEP-TB10B | BEP-TB5B | BEP-TB2B |
|---|---|---|---|---|
| Light source | LED; 860nm (Wavelength) | | | |
| Unit switches | NTU, FTU, EBC, ASBC | | | |
| Measurement range NTU | 0.00~20.0; 20.01~200; 200.1~2000 | 0.00~20.0; 20.01~200; 200.1~1000 | 0.00~20.0; 20.01~200; 200.1~500 | 0.00~20.0; 20.01~200 |
| Readings display | LCD | | | |
| Minimum reading | 0.001 | | | |
| Allowable error of indication | ≤±6% | | | |
| Zero Drift | ≤±0.5%FS | | | |
| Stability of indication | ≤±0.5%FS | | | |
| Repeatability | ≤0.5% | | | |
| Sample bottle | Φ25mm×65mm | | | |
| Sample volume | 20~25mL | | | |
| Interface | USB | | | |
| Data storage | 2000 sets | | | |
| Calibration modes | 7 | 6 | 5 | 4 |
| G.W.(kg) | 3kg | | | |
| Package Dimension(W*D*H) | 390×290×280mm | | | |

| Model | BEP-TB1B | BEP-TB50 | BEP-TB20 |
|---|---|---|---|
| Light source | LED; 860nm (Wavelength) | | |
| Unit switches | NTU, FTU, EBC, ASBC | | |
| Measurement range NTU | 0.00~20.0; 20.01~100 | 0.00~20.0; 20.01~50 | 0.00~20.0 |
| Readings display | LCD | | |
| Minimum reading | 0.001 | | |
| Allowable error of indication | ≤±6% | | |
| Zero Drift | ≤±0.5%FS | | |
| Stability of indication | ≤±0.5%FS | | |
| Repeatability | ≤0.5% | | |
| Sample bottle | Φ25mm×65mm | | |
| Sample volume | 20~25mL | | |
| Interface | USB | | |
| Data storage | 2000 sets | | |
| Calibration modes | 4 | 3 | 2 |
| G.W.(kg) | 3kg | | |
| Package Dimension(W*D*H) | 390×290×280mm | | |

# Portable Turbidity Meter

## BEP-TB100


## Advantages

- High-performance portable turbidity meter meets the design criteria in ISO 7027
- 2 to 5 points calibration using the Formazin Standards

- Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC
- Single measurement mode automatically senses and locks a stable reading
- Continuous measurement mode can be used for indexing or matching the sample vials

- Auto-Power Off effectively conserves battery life
- Setup menu allows to set the number of calibration points, resolution, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer or connecting a power adapter to meter

**BEP-TB100 Turbidity Meter**
Turbidity standard solution (0.02, 200, 500, 1000 NTU)
Sample bottles (2 pieces)
Lint free fabric
AA battery
Carrying case

## Specifications

| Model | | BEP-TB100 |
|---|---|---|
| Turbidity | Principle | ISO 7027 nephelometric method (90°) |
| | Range | 0~1100NTU, 0~275 EBC, 0~9999ASBC |
| | Resolution | 0.01 (0~99NTU), 0.1 (100~999NTU), 1 (1000~1100NTU) |
| | Accuracy | ±2% of reading (0~500NTU), |
| | | ±3% of reading (501~1100NTU) |
| | Calibration Points | 2 to 5 points |
| Other Specifications | Calibration Standards | 0.02, 10, 200, 500, 1000NTU |
| | Light Source | Infrared-emitting diode (850nm wavelength) |
| | Detector | Silicon photo diode |
| | Stray Light | <0.02 NTU |
| | Sample Vial | 60(H)× 25 (Dia)mm |
| | Sample Volume | 30mL |
| | Memory | 100 data sets |
| | Communication Interface | USB |
| | Operating Temperature | 0-50 ℃ |
| | Display | Custom LCD (60×40mm) |
| | Power Requirements | 3×1.5V AA batteries or DC5V power adapter |
| | Dimensions | 180 (L)× 85 (W)×70 (H)mm |
| | Weight | 300g |

## Ordering Information

BEP-TB100: Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and carrying case

# Benchtop Turbidity Meter

## BEP-TB200


## Features

- 2 to 7 points calibration using the Formazin Standards
- Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 200 data sets
- Turbidity, total suspended solids (TSS)
- TSS conversion factor ensures the accurate measurement of the total suspended solids
- Auto-Read function senses and locks a stable reading
- Setup menu allows to set the date and time, measurement mode, resolution,
- Password protection prevents the unauthorized calibration and settings
- USB communication interface is easy to transfer data to PC







**BEP-TB200 Turbidity Meter**
Turbidity standard solution (0.02, 200, 500, 1000 NTU)
Sample bottles (2 pieces)
Lint free fabric
DC12V power adapter



**Measurement Parameters**
- Turbidity, total suspended solids (TSS)

## Specifications

| Model | | BEP-TB200 |
|---|---|---|
| Turbidity | Range | 0~2000NTU, 0~500 EBC, 0~9999ASBC |
| | Resolution | 0.01 (0~99NTU), 0.1 (100~999NTU), 1 (1000~2000NTU) |
| | Accuracy | ±2% of reading (0~500NTU), ±3% of reading (501~2000NTU) |
| | Calibration Points | 2to7 points |
| | Calibration Standards | 0.02, 10, 200, 500, 1000, 1500, 2000NTU |
| TSS | Range | Depending on the TSS conversion factor |
| | Accuracy | 3% of reading |
| Other Specifications | light Source | Infrared-emitting diode (850nm wavelength) |
| | Detector | Silicon photo diode |
| | Stray Light | <0.02 NTU |
| | tray Light | 60(H)× 25 (Dia)mm |
| | Memory | 200 data sets |
| | Communication Interface | USB |
| | Operating Temperature | 0~50°C |
| | Display | 4.5 inches TFT LCD |
| | Power Requirements | DC12V power adapter |
| | Dimensions | 250 (L)× 177 (W)×96(H)mm |
| | Weight | 1.2kg |

## Ordering Information

BEP-TB200: Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and power adapter