



# MICROPROCESSOR BASED TURBIDIMETER



WESTOX-09887

**CE** | An ISO 9001:2208 | ISO 14001:2008 | ISO 13485  
WHO:GMP Products | GLP Compliant Products



Turbidity measures the extent to which the water loses its transparency due to presence of suspended particulate matter in a given sample. A higher turbidity indicates more contamination.

#### FACTORS AFFECTING TURBIDITY

- Sediments from soil erosion
- Water released from industries
- Algae growth

Weiber Turbidimeter is an ideal scientific instrument for research and general field applications by researchers and scientists. Our Turbidimeter measures the loss in intensity of a light beam through a solution that contains suspended particulate matter.

The greater the loss in intensity of a light beam passing through the given sample, the higher content of suspended particulate matter in the said sample.

Turbidimeters are widely utilized to test public water supplies for the presence of particulate matter suspended in the water.

#### WORKING PRINCIPLE:

Turbidity : 90° light scattering

Chlorine : DPD method

#### APPLICATION

Technomed's Turbidimeter is useful for liquid samples, such as listed below:

- Drinking water
- Surface water
- Waste water

ACMAS TECHNOCRACY PVT. LTD.

[www.measuring-meters.com](http://www.measuring-meters.com) | [www.acmasindia.com](http://www.acmasindia.com) | [www.scientificlaboratoryequipments.com](http://www.scientificlaboratoryequipments.com)

## Features

- **LCD panel**
- **User - Friendly Interface**
- **Ease of operations**
- **Portable**
- **Suitable for indoor and outdoor applications**
- **Wide Range**
- **High Sensitivity**
- **Designed to meet ISO 7027.**
- **NTU (Nephelometric TURBIDITY Unit) measuring unit.**
- **Wide and auto measurement range : 0 to 1,000 NTU.**
- **High resolution : 0.01 NTU/1 NTU.**
- **The unique optics structure, enables the instrument to read low value of**
- **TURBIDITY to the high level up to 1,000 NTU.**
- **Four operation buttons and two calibration points, easy operation.**
- **Jumbo LCD, easy readout.**
- **Microprocessor circuit assures maximum possible accuracy, provides special functions and features.**
- **Battery operated for field and on-site testing convenience.**
- **Data hold function for freezing the desired value on display.**
- **Records Maximum and Minimum readings with Recall.**
- **Heavy duty & compact housing with hard carrying case, designed for easy**
- **carry out & operation.**
- **Auto shut off is available to save battery life.**
- **Application : Test municipal water, food and beverage water, or other**
- **aqueous solution where fluid clarity is important**





# Microprocessor Based **Turbidimeter**



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# Technical Specifications

Circuit Custom one-chip of microprocessor LSI circuit.

Display LCD size	: 41 mm x 34 mm
Range	: 0.00 to 50.00 NTU, 50 to 1,000 NTU
* NTU	: Nephelometric Turbidity Unit
* Auto range	
Resolution	: 0.01 NTU/ 1 NTU
Accuracy	: $\pm 5\%$ F.S. or $\pm 0.5$ NTU, which ever is greater.
Light source	: LED, 850 nm.
Detector	: Photo diode
Standard Meet	: ISO 7027.
Response time	: Less than 10 seconds.
Sample volume needed	: 10 mL.
Data Hold	: Freeze the display reading.
Memory Recall	: Maximum & Minimum value.
Display Sampling Time	: Approx. 1 second.
Power off Auto shut off	: saves battery life or manual off by push button.
Calibration points	: 0 NTU, 100 NTU.
Operating Temperature	: 0 to 50 ?.
Operating Humidity	: Less than 85% R.H.
Power Supply	: DC 1.5 V battery ( UM4, AAA ) x 6 Pcs, or equivalent.
Power Current Stand by	: Approx. DC 3.5 mA.
Testing Approx	: . DC 36 mA.
Weight	: 320 g/0.70 LB. @ Battery is included.
Dimension	: 155 x 76 x 62 mm ( 6.1 x 3.0 x 2.4 inch)
Accessories	: Testing bottle with 0 NTU standard solution..... 1 PC
Included	: Testing bottle with 100 NTU standard solution..... 1 PC
	: Empty testing bottle..... 2 PCs
	: Clean cloth..... 1 PC
	: Clean solution ( Distill water )..... 1 bottle
	: Hard carrying case, CA-08..... 1 PC



