

T-100 Turbidity Meter

Completely waterproof—even the sample chamber

Waterproof and dustproof housing – IP67-rated waterproof housing allows operation in wet conditions ensuring durability, easy cleaning, and maintenance—it even floats!

Auto-ranging from 0 to 1000 NTU – Meter determines the sample's turbidity level and automatically adjusts to the appropriate measurement range—eliminating any guesswork

Simple, display-prompted push-button calibration – Pressing the “CAL” button initiates the quick and simple calibration procedure. The instrument automatically prompts the user for the next calibration standard.

Large, easy-to read display – Large, custom LCD shows readings with units of measure and user-friendly message codes that guide meter operation

Advanced power supply management – Measures over 1200 samples with a single set of batteries, delivering quick, stable results in less than six seconds. Also features auto-off function.

Sturdy carrying case with accessories – Compact case contains all items necessary for turbidity measurements and protects the meter when not in use. Items include the T-100 meter, four primary calibration standards, three borosilicate sample cuvettes with light shield caps, collection bottle, lint-free cloth, silicone oil, and batteries.



Index markings on the cuvettes make it easy to perform repeatable measurements



Kit includes standards, sample vials, and a rugged carrying case



ISO9001:2000 CERTIFIED SUPPLIER CE 2 year warranty

Specifications

Model	T-100 Turbidity meter
Range	0.1 to 19.99 NTU, 20.0 to 99.9 NTU, 100 to 1000 NTU
Resolution	0.01 NTU, 0.1 NTU, 1 NTU
Measurement method	ISO 7027 (DIN EN 27027) compliant nephelometric method (90°)
Accuracy	±2% of measurement from 0 to 500 NTU, ±3% of measurement from 501 to 1000 NTU
Repeatability	±0.01 NTU or ±1% of measurement, whichever is greater
Response time	<6 seconds for full-step change
Calibration standards	0.02 NTU, 20.0 NTU, 100 NTU, 800 NTU

Standardization: EPA-approved polymer-based primary standards

Light source: infrared-emitting diode (850 nm wavelength)

Light source life: >1,000,000 measurements

Detector: Silicon photovoltaic

Stray light: <0.02 NTU

Display: 4-digit, 14-segment customized LCD

Sample vials: borosilicate glass with screw caps, fill line, and indexing mark. 2"H x 1" dia (51 x 25 mm)

Sample volume: 10 mL (0.33 oz) minimum

Operating temperature range: 0 to 50°C (32 to 122°F)

Operating humidity: 0 to 90% RH, noncondensing at 30°C (86°F) range

Power: four AAA alkaline batteries (included), >1200 measurements

Enclosure: ABS plastic/IP67 rated

Dimensions (W x L x H)

Meter: 2 3/4" x 6 1/8" x 1 7/8" (6.8 x 15.5 x 4.6 cm)

Meter with case: 6 1/2" x 14" x 4 1/4" (16.5 x 35.5 x 10.5 cm)

Weight

Meter: 7 oz (200 g); **Meter with case:** 2.75 lb (1.25 kg)



Drinking Water



Environmental Monitoring

Ordering Information

Catalog number	Description	Included
WD-35635-00	T-100 turbidity meter kit	Meter, four primary calibration standards (0.02, 20.0, 100, and 800 NTU), three empty cuvettes with light shield caps, collection bottle, lint-free cloth, silicone oil, batteries, and hard carrying case

Accessories

WD-35635-50 Replacement calibration set, includes one 60 mL each of primary calibration standard 0.02, 20.0, 100, and 800 NTU

WD-35653-55 Replacement cuvettes, borosilicate glass. Pack of three