

Waterproof Turbidimeter



Waterproof TN100 Turbidimeter



- IP67 Waterproof
- EPA Approved
- Infrared System
ISO 7027 Compliant
- Auto Ranging
- Laboratory Accuracy
- Excellent Repeatability
- Easy Calibration
- Over 1200 Tests on a
Single Set of 4-AAA
Alkaline Batteries
- Rugged Carrying
Case with Calibration
Standards Included



- 1 Full segment LCD Display
- 2 Carrying case
- 3 Keypad with Tactile Feedback



The Waterproof TN100 turbidimeter is designed for portability and durability and is a "must have" for anyone monitoring turbidity on the go. The microprocessor-based TN100 turbidimeter uses an Infrared-LED light source and delivers unprecedented laboratory repeatability and accuracy with a resolution of 0.01 NTU across an extended range of up to 20 NTU[#]. This lightweight meter is a valuable analytical tool for field research and quality control.

WATERPROOF HOUSING

IP67 rated Waterproof housing ensures durability and allows measurements even under wet conditions. Cleaning and maintenance is simple.

STURDY CARRYING CASE

A sturdy compact carrying case allows neat storage space for meter, calibration standards, sample vials, plastic bottle for collecting sample, manual, battery pack, lint free cloth, and silicone oil.

AUTO-RANGING UP TO 1000 NTU

Meter senses turbidity level of measured sample and automatically adjusts to the appropriate measurement range, eliminating guesswork.

SIMPLE PUSH-BUTTON CALIBRATION

Simple calibration procedure is initiated at the touch of buttons and the instrument automatically prompts the user to the next calibration standard sequentially.

LARGE EASY-TO-READ DISPLAY

The large custom LCD (Liquid Crystal Display) displays readings prominently complete with units of measure and user-friendly message codes that guide meter operation.

ADVANCED POWER-SUPPLY MANAGEMENT

The TN100 meter is capable of measuring over 1200 test samples with a single set of 4 'AAA' alkaline batteries, delivering quick stable responses.

ACCESSORIES

Meter is supplied with four primary calibration standards (0.02, 20.0, 100, 800 NTU) and 3 empty vials with light shield caps for sample collection at sites.

APPLICATIONS

Drinking water • Petrochemical • Electroplating • Aquaculture • Swimming Pool • Food & Beverage industry.

WARRANTY

Eutech Instruments supplies this turbidimeter with a 2-year warranty against manufacturing defects.

Note: The TN100 meets the performance criteria specified by ISO 7027 (DIN EN 27027) method (# Nephelometric Turbidity Units)

Note: We reserve the right to make changes, improvements and modifications to products shown.

Specifications: Waterproof TN100

Measurement Method	ISO 7027 compliant nephelometric method (90°)
Measurement Range	0 to 1000 NTU
Automatic Range Selection	0.01 - 19.99 NTU 20.0 - 99.9 NTU 100 - 1000 NTU
Resolution	0.01 NTU (0 - 19.99NTU) 0.1 NTU (20.0 - 99.9 NTU) 1 NTU (100-1000NTU)
Accuracy	±2% of reading for 0 to 500 NTU ±3% of reading for 501 to 1000 NTU
Repeatability	±0.01 NTU or ±1% of reading, whichever is greater with gel samples
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 Life	> 1,000,000 tests
Light Source	Infrared-emitting diode (850nm wavelength)
Detector	Silicon photovoltaic
Stray Light	< 0.02 NTU
Display	4 digit 14 segment customised liquid crystal display with annunciators
Sample Vials	Borosilicate glass with screw caps, fill line and indexing mark 51 (H) x 25 (Dia)mm; (2x1 in)
Sample Volume Required	10 ml (0.33 oz)
Operating Temperature range	0 to 50 °C (32 °F to 122 °F)
Operating Humidity Range	0 - 90% RH, non-condensing at 30 °C (86 °F)
Power Supply	4 x "AAA" Alkaline Batteries (>1200 readings)
Enclosure Type & Rating	ABS Plastic / IP67 rated
Insulation Rating	Pollution Degree 2
Weight	Meter : 200 g (7 oz) Meter with case : 1.25 kg (2.75 lb)
Dimensions	Meter : 6.8 (W) x 15.5 (L) x 4.6 (H) cm; (2.7 x 6.1 x 1.8 in) Meter with Case : 16(W) x 35(L) x 12(H) cm; (6.3 x 13.8 x 4.7 in)

ORDERING INFORMATION

Order No.	Item
EC-TN100IR	TN100 Infrared Turbidimeter with EC-TN100CALKT in carrying case kit
EC-TN100CALKT	Calibration kit set for EC-TN100 (0.02, 20.0, 100, 800 NTU)
EC-TN100CUVKT	Pack of 3 sample vials

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