

TC-3000 Tri-Meter

Measure Turbidity, Color, & Chlorine in one meter



Description

The TC-3000 Tri-Meter is ideally suited for both low-level drinking water applications as well as monitoring high turbidity in the field. The Tri-Meter has a six-detector design with special focusing optics allowing for long-term stability over a wide range of operational conditions. The Tri-Meter uses the unique detector arrangement to measure Turbidity, Color, and Chlorine. The Tri-Meter comes in two designs: one with a tungsten lamp to meet EPA 180.1 specifications, the other comes with a IR LED emitter and meets the ISO 7027 standard. The Tri-Meter uses a tube-positioning ring to limit tube variability enabling maximum sensitivity and accuracy.

The TC-3000 Tri-Meter uses an advanced micro controller which allows for advanced calibration algorithms and support of up to 6 languages including English, French, Spanish, Japanese, Portuguese, and Italian. The instrument can record up to 4000 time and date stamped data points. The Tri-Meter is compatible with Smart Link 2 software allowing the unit to interface with a PC and download data for analysis. The Tri-Meter has an easy to use menu driven system displayed on an easy to read graphic LCD display.



- Meets ISO 7027/EPA 180.1 for Turbidity Meters
- Low Level Detection of Turbidity, Chlorine, and Color
- Programmable Auto-Shut Off
- Log up to 4000 time and date stamped recordings
- Supports Six Languages

Specifications

Turbidity:

Unit of Measure: NTU, FNU, FAU, ASBC, & EBC

Range: 0-4000

Resolution: 0.01 NTU/FNU (0.00-10.99)

0.1 NTU/FNU (110-4000)

1 NTU/FNU (110-4000)

Reproducibility: 0.02 NTU/FNU, 0.5 FAU

Chlorine:

Range: 0-10 ppm

Resolution: 0.01 ppm (0-5)

0.1 ppm (5-10)

Color:

Range: 0-500 CU (color units)

Resolution: 0.1 CU (0-100 CU)

1 CU (100-500 CU)

Light Source: 860nm LED (ISO)/Tungsten (EPA), 525 nm LED, UV LED 375

Accuracy: $\pm 2\%$, 0.02 or $\pm 2\%$, ± 0.5 CU or 2%

Detection Limit: 0.05 NTU/FNU, 0.02 ppm, 0.2 CU

Signal Averaging: Disabled, 2, 5, 10

Power: 9V Battery, AC Optional

Data Logging: 4000 points

Auto Shut-off: Disabled, 5, 10, 30

Response time: <5 s

Languages: English, French, Spanish, Japanese, Italian, & Portuguese

Size: 8-7/8"x4-5/8"-1-7/16" (226mmx117mmx36mm)

Weight: 3 lbs (1250g)

Options and Accessories

TC-3000e Tri-Meter, EPA Version

Includes 0, 1, and 10 NTU standards, sample bottle, 4 sample tubes, DPD tablets, and extra battery.

TC-3000i Tri-Meter, ISO Version

Options

AC adapter

SMARTLink 2 Software

Liquid DPD 1A Reagent, 60mL

Liquid DPD 1B Reagent, 60mL

Liquid DPD 3 Reagent, 60mL

NOTE: DPD 1A and DPD 1B are both required to test free residual chlorine and DPD1A, DPD1B and DPD3 are required for testing total residual chlorine.

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