

TC-3000 TRI-METERS Turbidity, Color, & Chlorine - ALL IN ONE METER!

Industry leading precision, sensitivity and dependability in one of the most innovative meters available on the market for the measurement of: Turbidity, Color, and Chlorine.



Code 1964-EPA

Code 1964-ISO

LaMotte offers 2 versions of the TC-3000. The TC-3000i uses an IR LED and meets the requirements of the ISO 7027 Standard. The TC-3000e uses a tungsten lamp and meets the specifications of EPA 180.1.

- Ideally suited for both low-level drinking water applications as well as monitoring high turbidity in the field
- Six detector design allows for long term stability over a wide range of operational conditions
- Special focusing optics
- Advanced IR emitter (3000i version)
- Tube positioning ring to limit tube variability enabling maximum sensitivity and accuracy
- MSP430 micro controller used is the most advanced controller on the market for hand held applications enabling use of advanced calibration algorithms
- Supports 6 languages: English, French, Spanish, Japanese, Portuguese and Italian
- Data logging up to 4000 points with a date and time stamp – stored tests can be viewed on the meter or downloaded to a PC
- Compatibility with existing Smart Link 2 software
- Easy to read graphic LCD display
- Easy menu-driven operation

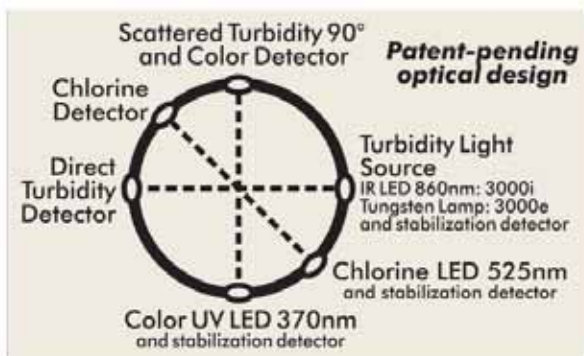
Meter Features

Battery	9V
AC Power	Optional
Data Logging	4000 points
Auto Shut-Off	Disabled, 5, 10, 30
Languages	English, French, Spanish, Japanese, Italian, Portuguese
Response Time	<5 Seconds

2 YEAR WARRANTY

Ultra-Rugged Carrying Case!

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



TC-3000 TRI-METERS

Turbidity, Color, and Chlorine

Turbidity

- Meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by ISO 7027/EPA 180.1
- Uses micro focusing optics
- Two user selected factory calibration modes:
 - Formazin
 - Polystyrene Japanese Turbidity Unit (Japanese Water Works Regulation)
- Supplied with formazin verified styrene divinylbenzene bead suspensions (AMCO) for easy and accurate field calibration
- User selected signal averaging (disabled, 2, 5 or 10 measurements)
- Blanking with turbidity-free water allows a zero point calibration for increased accuracy at very low turbidity levels

Unit of Measure	NTU, FNU, FAU, ASBC, EBC
Range	0-4000
Resolution	0.01 NTU/FNU 0.00-10.99 0.1 NTU/FNU 11.00-109.9 1 NTU/FNU 110-4000
Range Selection	Automatic
Accuracy	±2%
Detection Limit	0.05 NTU/FNU
Reproducibility	0.02 NTU/FNU; 0.5 FAU
Stray Light	<0.02 NTU FNU
Light Source	860nm LED (ISO) Tungsten (EPA)
Signal Averaging	Disabled, 2, 5, 10

Chlorine

- Exceeds design specifications for EPA 330.5
- Liquid and tablet DPD calibrations for Free and Total Chlorine measurement.
- Wide-range accomplished with same cell and reagent dosage.
- Low level detection.
- User selected units ppm or mg/L

Range	0-10 ppm
Resolution	0.01 ppm (0-5)/0.1 ppm (5-10)
Accuracy	0.05 or ±2%
Detection Limit	0.02 ppm
Response Time	<5 Seconds
Light Source	525 nm LED

Color

- UV LED and micro-focusing optics enable low level detection.
- Uses same sample vial as turbidity and chlorine tests

Range	0-500 cu
Resolution	0.1 cu (0-99.9 cu)
Accuracy	±0.5 cu or 2%
Detection Limit	0.2 cu
Response Time	<5 Seconds
Light Source	UV LED 375 nm

TC3000e USEPA Compliant

Order Code 1964-EPA
Turbidity (180.1), Chlorine (330.5),
Color (Modified 2120B)

TC3000i ISO Compliant

Order Code 1964-ISO
Turbidity (ISO 7027), Chlorine (330.5),
Color (Modified 2120B)

Kits & Accessories

1964-EPA	TC-3000 Kit, EPA version
1964-ISO	TC-3000 Kit, ISO version
1754†	AC adapter (variable 100-240V AC)
0641	Vial Ring (2-pk)
0475	Six pack of vials
1480	0 NTU Standard (ISO and EPA), 60 mL
1481	1 NTU Standard (ISO), 60 mL
1482	10 NTU Standard (ISO), 60 mL
1483	100 NTU Standard (ISO), 60 mL
1484	1 NTU Standard (EPA), 60 mL
1485	10 NTU Standard (EPA), 60 mL
1486	100 NTU Standard (EPA), 60 mL
6195-H	Formazin standard solution, 4000 NTU, 60 mL

4140	DPD Chlorine secondary standards kit
3176-01	FAS-DPD Titration kit for chlorine titration
6973-H	Standard chlorine solution, 250 ppm, 60 mL
6973-L	Standard chlorine solution, 250 ppm, 475 mL
3858-H	Permanganate solution, 1000 ppm, 60 mL
3858-L	Permanganate solution, 1000 ppm, 60 mL
6903A-J	Chlorine DPD #1 instrument grade tablets (100/box)
6197A-J	Chlorine DPD #3 instrument grade tablets (100/box)
P-6740-H*	Liquid DPD 1A reagent, 60 mL
P-6741-H*	Liquid DPD 1B reagent, 60 mL
P-6743-H*	Liquid DPD 3 reagent, 60 mL

*Note: DPD 1A and DPD 1B are both required to test free residual chlorine and DPD1A, DPD1B and DPD 3 are required for testing total residual chlorine.
†Optional - not included in kit