

# Instrumentation

## LTC-3000e Turbidity & Chlorine Laboratory Meter

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



The LTC-3000e uses a tungsten lamp and meets the specifications of EPA 180.1.

Code 1965-EPA

2 Year Warranty

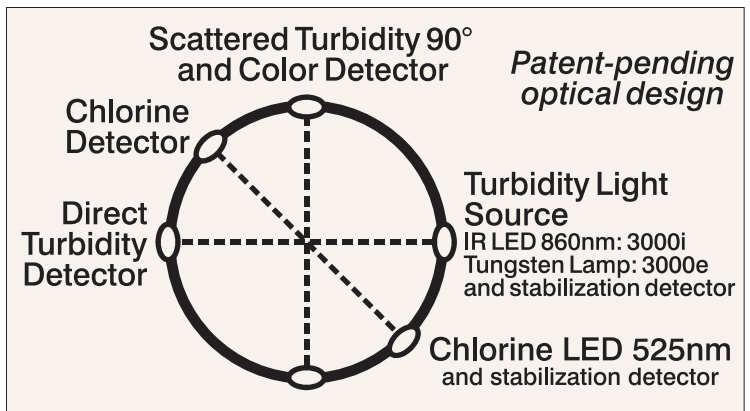
- Ideally suited for both low-level drinking water applications as well as monitoring high turbidity
- Six detector design allows for long term stability over a wide range of operational conditions
- Special focusing optics
- Tube positioning ring to limit tube variability enabling maximum sensitivity and accuracy
- MSP430 micro controller used is the most advanced controller on the market 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 SmartLink 2 software
- Easy to read graphic LCD display
- Easy menu-driven operation

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

ISO Version Coming Soon!

### Meter Features

Signal Average	Disabled, 2, 5, 10
AC Power	AC adapter 100-240V
Data Logging	4000 points
Auto Shut-Off	Disabled, 5, 10, 30
Languages	English, French, Spanish, Japanese, Italian, Portuguese
Response Time	<5 Seconds
Dimensions	8.75 W x 7.75 D x 3 H inches 22.2 W x 19.7 D x 7.6 H cm



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## LTC-3000, Turbidity and Chlorine

### Turbidity

- Meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by 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

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

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

### Kits & Accessories

#### LTC3000e USEPA Compliant

Order Code 1965-EPA

Turbidity (180.1), Chlorine (330.5)

1965-EPA	TC-3000 Kit, EPA version ISO Version Coming Soon!
1754	AC adapter (variable 100-240V AC)
0641	Vial Ring (2-pk)
0290-6	Six pack of glass 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/bx)
6197A-J	Chlorine DPD #3 instrument grade tablets (100/bx)

\*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.