

LTC-3000w Turbidity, Chlorine & Color Laboratory Meter

EPA
180.12
YEAR
WARRANTYISO
7027USEPA
COMPLIANT

LTC-3000we [EPA version]; Code 1972-EPA
LTC-3000wi [ISO version] Code 1972-ISO

Kits supplied with 0, 1 and 10 NTU standards, 6 sample tubes, DPD tablets, USB cable and AC adapter.

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

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

The LTC3000w is a benchtop turbidity, chlorine and color meter with wide range and high accuracy. **ISO unit also available.** The meter meets EPA 180.1, Rev. 2.0 [1993] and Standard Methods 2130 B-2001 for turbidity and Standards Methods 4500-Cl G for chlorine. The turbidity range is 0-4,000 NTU with a MDL of 0.05 NTU. The free and total chlorine range is 0-10 ppm with a MDL of 0.03 ppm. The meter can store 500 data points which can be downloaded to a computer, allows 7 different languages, and runs on rechargeable batteries or a USB computer/wall adapter.

- Ideally suited for both low-level drinking water applications as well as monitoring high turbidity
- Special focusing optics
- Supports 7 languages: English, French, Spanish, Chinese, Japanese, Portuguese and Italian
- Data logging up to 500 points with a date and time stamp – stored tests can be viewed on the meter or downloaded to a PC
- Compatibility with existing SmartLink 3 software
- Easy to read graphic LCD display
- Easy menu-driven operation

Meter Features

Signal Average	Disabled, 2, 5, 10
Power	USB computer cable, wall adapter or Lithium ion rechargeable battery, 3.7V, 2.5" x 0.75", 1.7 oz
Data Logging	500 points
Auto Shut-Off	Disabled, 5, 10, 30
Languages	English, French, Spanish, Japanese, Italian, Portuguese, Chinese
Response Time	<2 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

Kits & Accessories

LTC-3000we US EPA Compliant, Order Code 1972-EPA, Turbidity [EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001], Chlorine [Standard Methods 4500-Cl G], Color [based on Standard Methods 2120 C]

LTC-3000wi ISO Compliant, Order Code 1972-ISO, Turbidity [ISO 7027], Chlorine [Standard Methods 4500-Cl G], Color [based on Standard Methods 2120 C]

0290-6	Six pack of tubes	6197A-J	Chlorine DPD #3 Tablets, 100
1480	0 NTU/FNU Standard [EPA and ISO], 60 mL	1901-CD	SMARTLink3 Software
1450	1 NTU Standard [EPA], 60 mL	6195-H	Formazin standard solution, 4000 NTU, 60 mL
1451	10 NTU Standard [EPA], 60 mL	4140-02	DPD Chlorine secondary standards kit
1452	100 NTU Standard [EPA], 60 mL	3176-02	FAS-DPD Titration kit for chlorine titration
1453	1 FNU Standard [ISO], 60 mL	6973-H	Standard chlorine solution, 250 ppm, 60 mL
1454	10 FNU Standard [ISO], 60 mL	6973-L	Standard chlorine solution, 250 ppm, 475 mL
1455	100 FNU Standard [ISO], 60 mL	3858-H	Permanganate solution, 1000 ppm, 60 mL
6903A-J	Chlorine DPD #1 Tablets, 100		

Turbidity

- Meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001.
- 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, AU, FAU, ASBC, EBC
Range*	0-4000, 0-10,500 ASBC, 0-150 EBC
Resolution*	0.01 NTU/FNU 0.00-10.99; 0.1 NTU/FNU 11.0-109.9; 1 NTU/FNU 110-4000
Range Selection	Automatic
Accuracy*	From 0-2.5 NTU/FNU the accuracy is ± 0.05 NTU/FNU. From 2.5-100 NTU/FNU the accuracy is $\pm 2\%$. Above 100 NTU/FNU the accuracy is $\pm 3\%$.
Detection Limit	0.05 NTU/FNU
Reproducibility*	0.02 NTU/FNU, or 1%
Stray Light	<0.02 NTU FNU
Light Source	Tungsten [EPA], complies with EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001, 860nm LED [ISO], complies with ISO 7027
Signal Averaging	Disabled, 2, 5, 10

*Over 600 NTU/FNU units expressed as AU/FAU

Chlorine

- Exceeds design specifications for Standard Methods 4500-Cl G
- 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, Free and Total Chlorine
Resolution	0.00-5.00 ppm Range: 0.01 ppm; 5.0-10.0 ppm Range: 0.1 ppm
Accuracy	Tablet: 0-1.0 ppm Range: ± 0.03 ppm 1.0-3.0 ppm Range: ± 0.06 ppm 3.0-6.0 ppm Range: ± 0.3 ppm 6.0-10.0 ppm Range: ± 2.5 ppm Liquid: 0-0.5 ppm Range: ± 0.03 ppm 0.6-3.0 ppm Range: ± 0.06 ppm 3.0-6.0 ppm Range: ± 0.4 ppm 6.0-10.0 ppm Range: ± 1.5 ppm
Detection Limit	0.03 ppm
Response Time	<5 Seconds
Light Source	525 nm LED, complies with Standard Methods 4500-Cl G

Color

- Uses Platinum-Cobalt method from Standard Methods 110.2
- Wavelength 428 nm

Range	0-1000 cu
Detection Limit	20 cu
Accuracy	± 15 cu
Light Source	428 LED