



Clear Choice for Turbidity Measurement



Instrumentation for the Lab & Field!

2020we/wi Portable Turbidity Meters

Industry-leading precision, sensitivity, and dependability in one of the most innovative handheld meters available on the market! NOW WATERPROOF!

The multi-detector optical configuration assures long term stability and minimizes stray light interference. All readings are determined by the process of signal averaging of 2, 5, or 10 readings. This minimizes fluctuations in readings attributed to large particles and results in rapid, highly repeatable measurements. Ideally suited for both low-level drinking water applications as well as monitoring high turbidity in the field.



Waterproof to IP67

Lithium rechargeable batteries

USB port

7 languages

Backlit display

EPA and ISO versions

- Seven user selected languages – English, Spanish, French, Japanese, Chinese, Italian, and Portuguese
- Advanced calibration algorithms
- Easy menu driven operation and large LCD display
- 500 point data log; stored results can be viewed directly on instrument or downloaded to a computer via USB cable and SmartLink 3 software (available separately)

2020we version meets **US EPA design** criteria as specified by EPA 180.1, and Standard Methods 2130 B.

2020wi version meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by ISO 7027. The ISO compliant light source provides extended lifetime and better precision and accuracy of turbidity readings on colored samples and samples with high turbidity.

Kits are supplied with 0, 1, and 10 NTU standards, sample bottle, six sample tubes, USB cable and wall adapter.



To Order:

2020we Kit · Portable turbidity meter complies with EPA 180.1, and Standard Methods 2130 B;
Order Code 1970-EPA · Price: \$999.00

2020wi Kit · Portable turbidity meter complies with ISO 7027;
Order Code 1970-ISO · Price: \$999.00



Includes:

- 0 NTU Standard (ISO and EPA), 60 mL; Code 1480
- 1 NTU Standard (ISO), 60 mL; Code 1453 or 1 NTU (EPA); Code 1450
- 10 NTU Standard (ISO), 60 mL; Code 1454 or 10 NTU (EPA); Code 1451

Options:

- 100 NTU Standard (ISO), 60 mL; Code 1455 · \$49.95
- 1 NTU Standard (EPA), 60 mL; Code 1450 · \$49.95
- 10 NTU Standard (EPA), 60 mL; Code 1451 · \$49.95
- 100 NTU Standard (EPA), 60 mL; Code 1452 · \$49.95
- Formazin Standard Solution, 4000 NTU, 60 mL; Code 6195-H · \$18.10
- USB Cable, Code 1720 · \$6.05
- Wall Adapter, Code 1721 · \$18.15
- SMARTLink 3 Software; Code 1901-CD · \$74.60
- Six-pack of vials; Code 0290-6 · \$32.55
- Car Charger; Code 5-0132 · \$42.75

Kits are supplied with 0, 1, and 10 NTU/FNU standards, sample bottle, six sample tubes, USB cable and wall adapter.

Turbidity Specifications:

Unit of Measure 2020we	NTU, AU, AU, ASBC, EBC
Units of Measure 2020wi	FNU, FAU, AU, ASBC, EBC
Range*	0-4000 NTU/FNU, 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
Accuracy*	From 0-2.5 NTU the accuracy is ± 0.05 NTU. From 2.5-100 NTU the accuracy is $\pm 2\%$. Above 100 NTU the accuracy is $\pm 3\%$.
Detection Limit	0.05 NTU/FNU
Range Selection	Automatic
Reproducibility*	0.02 NTU/FNU or 1%
Light Source	2020we complies with EPA 180.1, and Standard Methods 2130 B 2020wi complies with ISO 7027

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

Meter Features:

Signal Averaging	Disabled, 2, 5, 10
Power	USB computer cable, wall adapter or Lithium ion rechargeable battery, 3.7V, 2.5" x .75", 1.7 oz
AC Power	Optional
Data Logging	500 points
Auto Shut-Off	Disabled, 5, 10, 30 seconds
Optional Software	SmartLink 3
Languages	English, French, Spanish, Japanese, Italian, Portuguese, Chinese
Response Time	<2 Seconds
Size	7.5 x 3.5 x 2.5 inches; 19.05 x 8.84 x 6.35 cm
Weight	13 ounces
Display	6-line LCD with backlit display

LTC-3000we/wi Turbidity, Chlorine & Color Laboratory Meter

The dependable choice for your next bench-top turbidimeter, now measures chlorine and color.

LTC-3000we US EPA Compliant Meter
Order Code 1972-EPA • Price: \$1,495.00

LTC-3000wi ISO Compliant Meter
Order Code 1972-ISO • Price: \$1,495.00

The LTC3000w is a benchtop turbidity, chlorine and color meter with wide range and high accuracy. The meter meets EPA 180.1, and Standard Methods 2130 B or ISO 7027 for turbidity and Standards Methods 4500-Cl G and EPA 330.5 for chlorine. The color standard is based on Standard Methods 2120 C. 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.



Accessories

0290-6	Six pack of tubes	\$32.55
1480	0 NTU/FNU Standard [EPA and ISO], 60 mL	32.00
1450	1 NTU Standard [EPA], 60 mL	49.95
1451	10 NTU Standard [EPA], 60 mL	49.95
1452	100 NTU Standard [EPA], 60 mL	49.95
1453	1 FNU Standard [ISO], 60 mL	49.95
1454	10 FNU Standard [ISO], 60 mL	49.95
1455	100 FNU Standard [ISO], 60 mL	49.95
6903A-J	Chlorine DPD #1 Tablets, 100	14.50
6197A-J	Chlorine DPD #3 Tablets, 100	14.50
1901-CD	SMARTLink3 Software	74.60
6195-H	Formazin standard solution, 4000 NTU, 60 mL	18.10
4140-02	DPD Chlorine secondary standards kit	93.35
3176-02	FAS-DPD Titration kit for chlorine titration	80.60
6973-H	Standard chlorine solution, 250 ppm, 60 mL	9.55
6973-L	Standard chlorine solution, 250 ppm, 475 mL	26.25
3858-H	Permanganate solution, 1000 ppm, 60 mL	11.80

Meter Features

Signal Averaging	Turbidity
Power	USB computer/wall adapter or Lithium ion rechargeable battery 2200 mAh, 3.7V
Data Logging	500 points
Auto Shut-Off	Disabled, 5, 10, 30 minutes
Languages	English, French, Spanish, Japanese, Italian, Portuguese, Chinese
Response Time	<2 seconds
Dimensions	8.4 cm W x 19.05 cm D x 6.35 cm H; 3.5" W x 7.5" D x 2.2" H

Turbidity

Unit of Measure	NTU [LTC300we only], FNU [LTC3000wi only], AU, FAU, ASBC, EBC
Range*	0-4000 NTU/FNU, 0-10,500 ASBC, 0-150 EBC
Resolution*	0.01 NTU/FNU, 0.00-10.99 NTU/FNU range; 0.1 NTU/FNU, 11.0-109.9 NTU/FNU range; 1 NTU/FNU, 110-4000 NTU/FNU range
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
Range Selection	Automatic
Reproducibility*	0.02 NTU/FNU, or 1%
Light Source	TC3000we: Complies with EPA 180.1 and Standard Methods 2130 B TC3000wi: Complies with ISO 7027

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

Chlorine

Unit of Measure	Parts Per Million [ppm], Milligrams Per Liter [mg/L]
Range	0-10.00 ppm Free & Total Chlorine
Resolution	0.01 ppm, 0.00-5.00 ppm range; 0.1 ppm, 5.0-10.00 ppm range
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: ± 2.5 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
Light Source	Complies with Standard Methods 4500-Cl-G and EPA 330.5

Color

Unit of Measure	Platinum Cobalt Color Units [cu]
Range	0-1000 cu
Resolution	1 cu, 0-1000 cu range
Accuracy	± 15 cu
Detection Limit	20 cu
Light Source	Based on Standard Methods 2120 C

† The ISO compliant light source provides extended lifetime and better precision and accuracy of turbidity readings on colored samples and samples with high turbidity.



LaMotte Company • PO Box 329 • Chestertown • Maryland • 21620 • USA
t: 800-344-3100 • 410-778-3100 • f: 410-778-6394 • www.lamotte.com