



Water Conditioning Testing Products

1919-2009
90 years

LaMotte & Water Quality

Since 1919 LaMotte has been a committed leader in providing quality equipment and guidance for water analysis. Our philosophy has always been that **WE ARE IN BUSINESS TO HELP PEOPLE SOLVE ANALYTICAL CHALLENGES**. Today, we produce the broadest line of portable test equipment, and continue our focus on your specific needs by offering improved products and strong technical support.

Virtually all our reagents, instruments, and test kits are designed and manufactured in-house. Our Research and Development staff is constantly improving our existing products and seeking new methods and reagent packaging.

We believe the emphasis we place on **TECHNICAL SUPPORT** and **CUSTOMER SERVICE** helps distinguish LaMotte. Call our Technical Support toll-free number for guidance on product selection or assistance with any questions regarding LaMotte products.

Please visit our website at www.lamotte.com where you can see all of our product catalogs, newsletters, MSDS, new product information, technical tips, and instructions.

If for any reason you are not satisfied with our products or service, please contact us.

We know that when you buy analysis products from us, you purchase solutions to your challenges, not simply hardware.

PRICES are provided on the enclosed price list and are subject to change without prior notice. Prices are f.o.b. Chestertown, Maryland. A \$7.50 handling fee and a \$7.50 shipping fee are applied to all orders totaling less than \$35.00.

PAYMENT TERMS are net thirty days to accounts with established credit with LaMotte Company. New accounts should provide credit references or enclose payment with the purchase order. American Express, VISA and MasterCard accepted.

PRODUCT CODE NUMBERS Please include product code numbers and quantities.

DISCLAIMER Descriptions and photography within this catalog are believed to be accurate. LaMotte reserves the right to revise products and prices without notification of change.

Test Methods

Titrimetric



DIRECT READING TITRATORS are calibrated for direct readout in concentration.



DROP COUNT or DROPPER BOTTLE
The number of drops used to reach the endpoint is multiplied by the appropriate conversion factor.

Colorimetric



OCTET COMPARATORS and OCTA-SLIDES provide eight translucent color standards mounted in a plastic comparator block or slide.

ELECTRONIC COLORIMETERS
Light passes through a reacted sample and is measured by a photodetector. Result is translated to a digital readout in ppm.



Test Strips Insta-Test®



Code 2980



Code 2987



Code 2996

For QUICK & EASY
water quality profiles!



Single Factor Test Strips

Test Factor	Code	Range (ppm)	Values (ppm)	# of Tests Per Factor/ Per Vial
Alkalinity	2997	0-180	0, 40, 80, 120, 180	50
Chlorine, Free, Low Range	2964-G	0-10	0, 0.25, 0.5, 1, 3, 5, 10	25
Chlorine, Total, Low Range	2963LR-G	0-10	0, 0.1, 0.25, 0.5, 1, 3, 10	25
Chlorine, Total	2979	0-5	0, 0.5, 1, 3, 5	50
Hardness, Low Range	2981	0-180	0, 30, 60, 120, 180	50
pH, Wide Range	2974	4-10 (pH)	4, 5, 6, 7, 8, 9, 10	50
Peroxide	2984	0-100	0, 1, 3, 10, 30, 100	25

Multi-Factor Test Strips

Test Factor	Code	Range (ppm)	Values (ppm)	# of Tests Per Factor/ Per Vial
Iron & Copper	2994	0-5 (Iron)	0, 0.3, 0.5, 1, 3, 5	25
		0-3 (Copper)	0, 0.3, 0.6, 1, 3	25
Iron, pH, & Hardness	2980	0-5 (Iron)	0, 0.3, 0.5, 1, 3, 5	25
		4-10 (pH)	4, 5, 6, 7, 8, 9, 10	25
		0-400 (Hard)	0, 50, 100, 200, 400	25
Wide Range (pH & Total Chlorine)	2987	4-10 (pH)	4, 5, 6, 7, 8, 9, 10	50
		0-50 (TCl)	0, 1, 5, 10, 20, 50	50
Nitrate & Nitrite	2996	0-50 (Nitrate)	0, 5, 10, 25, 50 (NO ₃ -N)	50
		0-10 (Nitrite)	0, 0.5, 1, 5, 10 (NO ₂ -N)	50

*Strips shown have been evaluated for use in these applications. Use in other applications is subject to potential interferences. Contact LaMotte Technical Services for more information.



For additional Test Strips, please visit www.lamotte.com or call customer service for details.

Water Quality DEMO OUTFITS

Model AT SERIES

Model AT outfits are the most popular and effective sales tools for on-site demonstrations of treated water benefits.

- New digital versions
- New rugged case with locks
- Fast & simple tests
- More custom options
- Competitive pricing

DIGITAL OUTFITS

New!



New Case!



Code 4-3055

Featuring the new ColorQ digital colorimeter!

Tests Included in AT-38Q and AT-40Q

	Hardness	pH	Iron	Nitrate	Chlorine	Sulfide	Precipitation	Soap Consumption
	1-41 gpg*	5-9	0-3.0 ppm*	0-25	0-10 ppm	0-3.0 ppm*	Before/After	Before/After
Resolution	1 gpg	0.1 pH	0.5-10 ppm	1 ppm	0.1 ppm	0.1 ppm	—	
Number of Tests	140	70	50	50	50	120	100	100

*Higher Concentrations by dilution; instructions included.

AT-38Q • Includes Model S softener • Code 4-3051
AT-40Q • Includes DuoSoft* softener • Code 4-3055

Optional DUAL RANGE TDS Waterproof PockeTester
TDS 11 • Code 5-0080

The TDS Dual Range PockeTester reads Total Dissolved Solids in 10 ppm increments up to 1,990 ppm. The unit switches automatically to precisely measure Total Dissolved Solids in 100 ppm increments up to 10,000 ppm (10.00 ppt). The units feature push-button calibration and automatic temperature compensation.



Model S

*NOTE- DuoSoft softener sold without media

Water Quality DEMO OUTFITS

CUSTOMIZE your
own sales demo kit!

VISUAL OUTFITS



Code 4-3003-01



Tests Included in AT-38 and AT-40

	Hardness	pH	Iron	Precipitation	Soap Consumption
Range	1 drop= 10 ppm/1 gpg	5.0-10 ppm	0.5-10 ppm	Before/After	Before/After
Number of Tests	100	100	100	100	100

*Higher Concentrations by dilution; instructions included.

Optional Add-On Kits and Meter:

Chlorine (0.2-3.0 ppm) • 50 Tests • Code 4-3006
Nitrate (0-15 ppm) • 50 Tests • Code 4-3004
TDS Meter • Code 5-0080 (see page 4)

AT-38 • Includes Model S softener • Code 4-3003-01
AT-40 • Includes DuoSoft* softener • Code 4-3015

Demonstration WATER SOFTENERS

Coming in 2009

The solution for any style kitchen
faucet. Call for details.

Generate high-quality softened water in seconds. Clear acrylic column is durable and visually impressive. Flexible intake and outlet hoses have plastic clamps that prevent spillage. Rubber adapter on intake hose attaches to faucet. Available in two different models to suit your demonstration needs.



DuoSoft*

Order Code 1022

The new LaMotte twin-chambered softener clearly demonstrates the advantages of advanced two-part treatment systems. Customize one today to demonstrate the true effectiveness of your treatment system.

- Treat tapwater in one pass with a two-chambered softener
- Fill both chambers with the media of your choice
- Filter screen divider prevents bleeding of media between beds
- Two 4" columns (10.25" total height)
- Duo-Soft is furnished in the Model AT-40 outfit.

Stack your next sales call
with twice the impact!

*NOTE- DuoSoft softener sold without media



Model S

Order Code 1002

An 8" resin column (10.25" total height) that softens up to 70 gallons of medium hard water (7 gpg hardness) before requiring regeneration or fresh resin. Model S softener is furnished in the Model AT-38 outfit.

Generate high-
quality softened
water in seconds!

Multi-Parameter OUTFITS

Digital Outfit COLORQ DW

New!



Code 2059

ColorQ DW Code 2059

	Hardness	pH	Iron	Nitrate	Chlorine	Sulfide
	1-41 gpg*	5-9	0-3.0 ppm*	0-25	0-10 ppm	0-3.0 ppm*
Range	1 gpg	0.2 pH	0.1 ppm	1 ppm	0.1 ppm	0.1 ppm
Number of Tests	140	70	50	50	50	120

*Higher Concentrations by dilution; instructions included.

Need guidance
on product selection?
Contact our technical
support staff
at 800-344-3100
or tech@lamotte.com

Visual Kits

Model AR outfits offer the simplest, most economical way to measure water quality factors in the field. Drop Count and Octa-Slide tests can be reliably performed by non-technical personnel. Ideal for service applications. Units easily customized upon request.



Code 3590-02

Model AR-02 Code 4783-02 Reagent Refill • R-4783-02 Popular AR-02 outfit provides tests for Hardness, Iron, and pH. Drop Count test for Hardness (10 ppm or 1 gpg/drop). Octa-Slide tests for Iron (0.5-10 ppm) and pH (5.0-10). Includes 100 tests for Iron and 50 tests each for pH and Hardness. <i>Small quantity hazardous material, no fees, 7 lbs.</i>	Model AR-42 Code 3590-02 Reagent Refill • R-3590-01 The Model AR-42 has the same test range for pH, Hardness, and Iron as the AR-02, but it also is equipped to test for Sulfide (0.2-20 ppm). Includes 50 tests for pH, Hardness, and Sulfide; 100 for Iron. <i>Small quantity hazardous material, no fees, 7 lbs.</i>
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Individual TEST KITS



Code 7240



Specific to your treatment and monitoring needs. Each individual kit is furnished in a compact carrying case with all labware, accessories, and reagents needed to perform the test. Step-by-step instructions included.

A Reagent Refill Package may be ordered by prefixing "R-" to the code number of the kit.

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes (weight/lbs.)
Alkalinity	Kits use titrations with standard acid to the phenolphthalein (P) and/or total (T) alkalinity endpoint.			
7240-01	Dropper Bottle for P&T Alkalinity	1 drop = 10, 25, or 50 ppm as CaCO_3	100 at 500 ppm	N (2)
4491-DR	Direct Reading for Total Alkalinity	0–200 ppm as CaCO_3 in 4 ppm increments	50 at 200 ppm	NH (1)
3467**	Direct Reading Titrator for P&T Alkalinity	0–200 ppm as CaCO_3 in 4 ppm increments	50 at 200 ppm	N (1)
Aluminum	A pink to red color will form when aluminum reacts with Eriochrome Cyanine R at pH 6.			
3569	Octet Comparator	0.0, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5 ppm Al^{3+}	50	NH (1)
Arsenic	The procedure detects inorganic As^{+3} and As^{+5} by converting these to arsine gas, which produces a yellow to brown color on the test strip. The strip is then compared to color standards to determine the arsenic concentration.			
4053-01	Colorimetric/Test Strips	4, 6, 8, 10, 12, 14, 16, 18, 20, 30, 40, 50, 60, 70, 80, 100, 140, 160 ppb	50	N (8)
Bacteria	LaMotte offers the BART™ (Biological Activity Reaction Tests) line of kits for various microbiological analyses. Results are obtained by observation after 2-8 days of room temperature incubation. Please contact us for more information. (see also coliform)			
5-0030	Denitrifying Bacteria (DN)	Semi Quantitative	9	NH (1)
5-0028	Micro-Algae (ALGE)	Semi Quantitative	9	NH (1)
5-0024	Iron Related Bacteria (IRB)	Semi Quantitative	9	NH (1)
5-0031	Nitrifying Bacteria (N)	Semi Quantitative	7	NH (1)
5-0026	Slime Forming Bacteria (SLYM)**	Semi Quantitative	9	NH (1)
5-0025	Sulfate Reducing Bacteria (SRB)	Semi Quantitative	9	NH (1)
5-0032	Combo Pack (Iron, Sulfate Reducing, Slime Forming)**		3 each	NH (1)
5-0033	Mini Hand-held UV Lamp includes one 4-watt bulb and four AA batteries. Measures 6.5 x 1.75 x 1.25 inches. Replacement tubes available.			
Chloride	The argentometric method employs a chromate indicator and silver nitrate titrant. Hydrogen peroxide is included to eliminate sulfite interference.			
7247	Dropper Bottle	1 drop = 2, 5, or 10 ppm	120 at 10 ppm	NH (1)

*EPA Accepted for NPDWR

**Requires use of UV lamp (order code 5-0033)

Individual TEST KITS



Code 3347

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes (weight/lbs.)
Chlorine	Free, combined, and total chlorine may be determined using DPD with either colorimetric or titrimetric methods. These determinations are generally limited to concentrations of 0-10 ppm, although the FAS titration can test higher concentrations with the addition of more DPD indicator.			
3312	Octa-Slide for Free & Total	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm Cl	50	NH (1)
3308	Octa-Slide for Free & Total	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm Cl	50	NH (1)
3176-01**	Direct Reading Titrator for Free & Total	0-10 ppm Cl in 0.2 ppm increments	50 at 10 ppm	N (2)
3670-01**	Digital Colorimeter	0-4.0 ppm Cl/0.05 ppm, DPD Tablets	100	NH (4)
3670-01-LI	Digital Colorimeter	0-4.0 ppm Cl/0.05 ppm, DPD Liquid	100	N (5)
Chlorine Bleach	Higher concentrations of chlorine require the iodometric titration, whereby the sample is acidified and iodide is added, which is oxidized by chlorine to iodine and is titrated with a standard thiosulfate solution.			
7894	Dropper Pipet	1 drop = 0.005%, 0.05%, 0.5% Cl	50 at 10%	N (1)
Coliform	Kit 4-3616 uses five tubes, each containing a nutrient tablet. Reacted tubes are stored at room temperature for 48 hours and examined for color change and gas formation. Kit 3-0035 uses a patented combination of color-producing nutrients and enzymes that differentiate coliforms, E.coli, and non-coliform species.			
4-3616	Total Coliform (LaMotte)	Presence/Absence (5 tube MPN method)	1	NH (1)
3-0035	Total Coliform/E.coli	0-300 CFU/100 mL	20	NH (3)
Copper	A yellow color is formed when copper reacts with diethyldithiocarbamate (DDC)			
6616	Octet Comparator with Axial Reader	0.0, 0.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5 ppm Cu, 0-5.0 with dilution	50	NH(1)
Fluoride	A red zirconium lake reacts with fluoride to form a colorless solution which decreases the red color of the solution in proportion to concentration.			
4227-R	Octet Comparator with Axial Reader	0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6 ppm FI	50	NH (1)
Hardness	EDTA titration is used for all hardness determinations with a red to blue endpoint. Total hardness buffers include inhibitors to eliminate metal interferences. All results are as CaCO ₃ ; some kits also express results as gpg. The -LT suffix indicates a liquid buffer and tablet indicator.			
4482-LT-01	Dropper Bottle for Total Hardness	1 drop = 10 ppm or 1 gpg as CaCO ₃	50 at 200 ppm or 20 gpg	N (1)
3037-DR	Direct Reading Titrator for low range Total Hardness	0-10 ppm as CaCO ₃ in 0.2 ppm increments	50 at 10 ppm	N (1)

*EPA Accepted for NPDWR

**EPA Accepted for NPDWR & NPDES

Continued next page...

Individual TEST KITS

Convenient REAGENT REFILLS!
When ordering, place "R-"
before the kit code

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes (wgt/lbs.)
Iron Bipyridyl is a ferrous iron indicator that tests total iron after any ferric iron is reduced to ferrous in the sample. Ferrous and ferric may be tested separately using Kit 3347.				
3318	Octa-Slide for Total Iron	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	90	N (1)
7787	Octet Comparator with Axial Reader for Total Iron	0.05, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm Fe	30	N (1)
3347	Octa-Slide for Total, Ferrous and Ferric Iron	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	50	N (1)
Manganese The 1-(2-pyridylazo)-2-naphthol(PAN) method forms an orange complex with manganese.				
3588-01	Octet Comparator	0.0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.0 ppm Mn	50	HA (2)
Nitrate Nitrogen The nitrate is reduced to nitrite by zinc and this undergoes diazotization/coupling to form a pink color. (see also nitrate test strips, page 3)				
3354	Octa-Slide	0, 1, 2, 4, 6, 8, 10, 15 ppm NO ₃ -N	50	NH (2)
Ozone DPD reacts with ozone, but any other oxidizers will interfere. The indigo trisulfonate method includes a step to eliminate chlorine interference. Bromine will interfere.				
3526	Octet Comparator with Axial Reader, dual range, DPD	0.01, 0.03, 0.07, 0.11 ppm & 0.2, 0.4, 0.7, 1.0 ppm O ₃ 1.0 ppm O ₃	50	NH (1)
3678-01	Digital Colorimeter Indigo trisulfonate	0-0.4 ppm O ₃ /0.04 ppm	100	NH (7)
pH Indicators specific to a particular pH allow colorimetric determination. (see also pH meters, pages 10-11)				
3353	Octa-Slide	5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0 pH	50	N (1)
Sulfate Barium forms a precipitate with sulfate. The turbidity from the precipitate is measured using a comparator.				
7307	Octa-Slide	20, 40, 60, 80, 100, 120, 160, 200 ppm SO ₄ ²⁻	50	N (1)
Sulfide Uses the Pomeroy methylene blue method for analysis. (see also sulfide test on ColorQ, page 6)				
3322**	Octa-Slide for Total Sulfide	0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 ppm S=	50	N (1)
Tannin Tungstophosphoric and molybdophosphoric acids are reduced by tannins to form a blue color.				
7306	Octa-Slide	1, 2, 3, 4, 5, 6, 8, 10 ppm tannic acid	50	N (1)

*EPA Accepted for NPDWR

**EPA Accepted for NPDWR & NPDES



Code 3322

INSTRUMENTATION

POCKETESTERS

Easy to operate
& calibrate

Ideal for almost any water analysis application. The WATERPROOF PockeTesters float and can be intermittently submerged to a depth of 3 feet. The waterproof feature makes cleanup easy since the whole unit can be rinsed. Replacement electrodes help reduce long term costs. Double junction meters are ideal for testing pH in strong acids, solvents, or other harsh applications.



Model:	pH 10	pH 20	TDS Dual Range
Waterproof, Double Junction (pH):	5-0103	5-0104	5-0080
Range:	-1.0 to 15.0 pH extended range		0 to 1,990 ppm and 0 to 10.00 ppt
Resolution:	0.1	0.01	10 ppm 0.10 ppt (100 ppm)
Accuracy:	±0.1	±0.01	±2%FS
Calibration:	Select up to 3 points (4.0, 7.0, or 10.0)		Against appropriate calibrating solutions
Single point Operating Temp.:	32 to 122°F; 0 to 50°C		
Temp. Compensation:	Automatic (ATC) 0 to 50°C		
Special Functions:	On/Off or Auto-Off after 8.5 min.; HOLD; CALibrate		Full reading displayed
Power & Battery Life:	Four 1.5V batteries (supplied); 100 hrs. continuous use (±720 tests per battery); Eveready A76BP or equivalent for replacement.		Four 1.5V batteries (supplied); 100 hrs. continuous use
Replacement Electrode:	5-0097		5-0084

Digital Turbidity Meter • 2020e (EPA Compliant)

Model 2020e • Code 1979-EPA

The 2020 sets a new standard for accuracy in an extremely compact, portable instrument for turbidity measurement. A multi-detector optical configuration assures long term stability and minimizes stray light and color interferences. All readings are determined by the process of signal averaging over a 5 second period, minimizing fluctuations in readings attributed to large particles and enabling rapid, highly repeatable measurements. Meets USEPA Method 180.1 requirements.

Specifications:	
Instrument Type:	Nephelometric turbidity; calibrated in NTUs
Range:	0-4000 NTU
Resolution:	0.01 on 0-10 range, 0.1 on 10-100 range, 1.0 on 100-4000 range
Response Time:	5 seconds
Accuracy:	±2% of reading
Light Source:	Tungsten filament lamp
Sample Chamber:	Accepts 25 mm diameter flat-bottom, screw capped sample tubes
Serial Interface:	RS-232
Power:	Battery Operation: 9V alkaline Line Operation: 120V/60Hz or 220V/50 Hz, 100 mA, with adapter (included)
Size (LxWxH):	8.5 x 16.2 x 6.7 cm; 3.375 x 6.375 x 2.625 inches



INSTRUMENTATION

LaMotte TRACER Meters

The world's first pocket-sized ISE meter for measuring Total Chlorine. Tests pH and ORP with interchangeable, flat surface sensors. Now available is the new CON/TDS/SAL TRACER with direct reading of Conductivity, Total Dissolved Solids, Salinity, and Temperature with one electrode.



- Readings are not affected by sample color or turbidity
- Extra bold display includes an analog bar graph feature
- Memory can store up to 15 readings
- Meters also display sample temperature
- Unit identifies which probe is in use and retains calibrations
- Waterproof design
- Automatic shut-off and Low Battery indicator; uses four LR-44 batteries
- Chlorine TRACER includes 100 reagent tablets at almost half the price of similar Chlorine ISE reagents
- Follows EPA protocol for ISE methods
- Note: Chlorine, pH, and ORP sensors are not compatible with EC/TDS/Salt TRACER

TRACER Model	Chlorine	pH	ORP	Chlorine, pH, ORP	EC/TDS/Salt/Temp			
Code	1740	1741	1742	1740-KIT	1749			
Range (Accuracy)	0-10 ppm; ± 10% of reading	pH 0-14; ±0.01	ORP ±999mV (±4mV)	Includes Code 1740, plus pH and ORP sensors and carrying case	Conductivity 0-199.9 mS 200-1999 mS 2.00-19.99 mS (±2% FS)	TDS: 0-99 ppm 100-999 ppm 1000-9999 ppm S (±2% FS)	Salinity: 0-99 ppm S 100-999 ppm S 1000-9999 ppm S (±2% FS)	Temp: -5°-90°C (±1°C/ 1.8°F)

LaMotte Series Meters

An outstanding lineup of instruments for measuring pH, Conductivity, and TDS. These handheld meters incorporate advanced microprocessor technology with attractive, compact designs resulting in a rare combination of hi-tech performance, user-friendly operation, and affordability.



MODEL	pH 5		CON 6 Meter	TDS 6 Meter	CON 5 & TDS 5
	(pH)	(Temperature)	(Conductivity)	(TDS)	(Temperature)
Order Code:	w/out case 5-0034 with case 5-0035		w/out case 5-0038-01 w/case 5-0039-01	w/out case 5-0036-01 w/case 5-0037-01	—
Range:	0.00 - 14.00 pH	0.0 - 100.0°C	0.0 to 199.9 μ S 200 to 1999 μ S 2.00 to 19.99 mS	0.0 to 99.9 ppm 100 to 999 ppm 1.00 to 9.99 ppt	—
Resolution:	0.01 pH	0.1°C	0.1 μ S, 1 μ S, 0.01mS	0.1 ppm, 1 ppm, 0.01 ppt	0.01°C
Accuracy:	±0.01 pH	±0.5°C	±2% full scale	±2% full scale	±0.5°C
Calibration:	Up to 3 Buffer Values (pH 4.01, 7.00, 10.0)	Offset 0.1°C increments	1 to 3 points (push button; 1 point per range)		Offset 0.1°C increments
Temperature Compensation:	Automatic Temperature Compensation (ATC)		Automatic Temperature Compensation (ATC) fixed 2% per °C factor		
Power:	4 AAA alkaline batteries (supplied) >70 hours continuous use		4 AAA alkaline batteries (supplied) >60 hours continuous use		
Display:	Single Custom LCD		Single Custom LCD		
Auto shut-off:	After 17 minutes		After 17 minutes		
Operating Temperature:	32 to 122°F; 0 to 50°C		-10°C to -110°C		

SMART[®]2 Colorimeter

The user-friendly SMART[®]2 Colorimeter is the direct reading colorimeter for complete on-site water analyses. Over 70 pre-programmed tests can be run on this compact instrument and each test features automatic wavelength selection. The entire multi-LED optical system is embedded in the light chamber and optimized for LaMotte test reagent systems. This enables the analyst to simply select the test and put in the sample with reagent. The microprocessor, which selects the wavelength, also allows the user to load up to 10 tests for analyzing custom reagent systems.

Advanced Features:

- Menu-driven display
- Over 70 pre-programmed tests
- Automatic wavelength selection
- The SMART[®] 2 Colorimeter is supplied with 4 sample tubes, AC adapter, and instruction manual including test procedures.

Specifications:

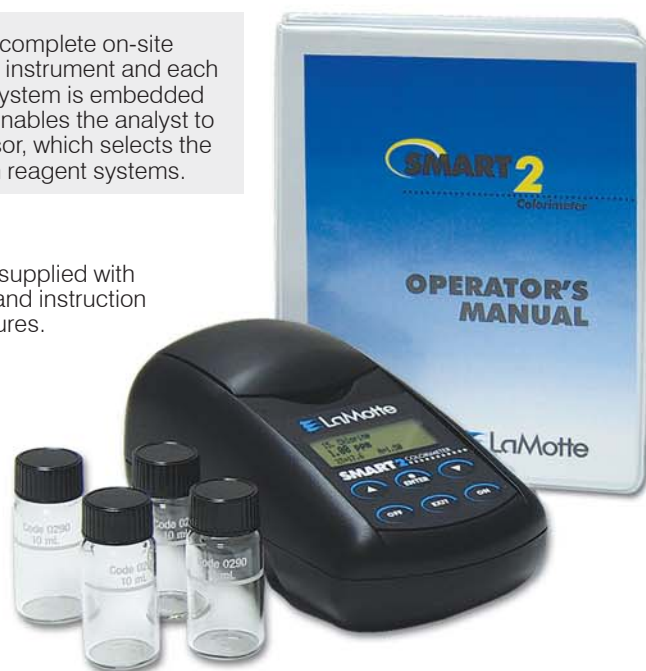
Light Source:	LED/filter setup at 430nm, 520nm, 570nm, 620nm
Detector:	Photodiode
Display:	122 x 32 LCD, 16 x 4 line graphics display
Range:	-2 to 2 Absorbance Units (AU)
Resolution:	1% FS
Accuracy:	2% FS
CE Mark:	Yes
Sample Cell:	25 mm round cell, 10 mm square cuvette, 16mm COD tubes
Power:	9V or AC adapter
Battery Life:	500 tests
Datalogging:	RS-232, time and date stamped
Calibration:	Factory set with capability to standardize
Keypad:	6-button membrane switch
Size:	15 x 8 x 5.5 cm; 6 x 3.25 x 2.5 inches
Weight:	11 ounces

Reagent systems ordered separately - call for information.

Alkalinity (UDV)	0-200 ppm	Cobalt	0-2.0 ppm	Hydrazine	0-1.0 ppm	Ozone LR	0-0.4 ppm
Aluminum	0-0.3 ppm	COD LR w/ Mercury	0-150 mg/L	Hydrogen Peroxide LR	0-1.5 ppm	Ozone HR	0-2.5 ppm
Ammonia-Nitrogen LR	0-1.0 ppm	COD LR w/o Mercury	0-150 mg/L	Hydrogen Peroxide HR	0-60 ppm	pH, CPR	5-6.8
Ammonia-Nitrogen HR	0-4.0 ppm	COD SR w/ Mercury	0-1,500 mg/L	Hydrogen Peroxide Shock	0-225 ppm	pH, PR	6.6-8.4
Biguanide	0-70 ppm	COD SR w/o Mercury	0-1,500 mg/L	Hydroquinone	0-2.0 ppm	pH, TB	8-9.6
Boron	0-0.8 ppm	COD HR w/ Mercury	0-15,000 mg/L	Iodine	0-14 ppm	Phenol	0-6.0 ppm
Bromine LR	0-9.0 ppm	COD HR w/o Mercury	0-15,000 mg/L	Iron, Bipyridyl	0-6 ppm	Phosphate LR	0-3.0 ppm
Bromine (UDV)	0-22 ppm	Color	0-1000 cu (color units)	Iron (UDV)	0-10 ppm	Phosphate HR	0-70 ppm
Cadmium	0-1.0 ppm	Copper (BCA) LR	0-3.5 ppm	Iron, 1,10-Phenanthroline	0-5.0 ppm	Phosphorus, Total LR	0-3.5 ppm
Calcium, Magnesium, (Total) Hardness (UDV)	10-500 ppm	Copper (CPZ)	0-2.0 ppm	Lead	0-5.0 ppm	Phosphorus, Total HR	0-100 ppm
Carbohydrazide	0-0.900 ppm	Copper (DDC)	0-6 ppm	Manganese LR	0-0.7 ppm	Potassium	0-10 ppm
Chloride TesTab	0-30 ppm	Copper (UDV)	0-4.0 ppm	Manganese HR	0-15.0 ppm	Silica HR	0-75 ppm
Chlorine	0-4.0 ppm	Cyanide	0-0.35 ppm	Mercury	0-1.5 ppm	Silica LR	0-4.0 ppm
Chlorine - Free (UDV)	0-10 ppm	Cyanuric Acid	5-200 ppm	Methylethylketoxime	0-3.0 ppm	Sulfate HR	0-100 ppm
Chlorine (Liquid DPD)	0-4 ppm	Cyanuric Acid (UDV)	0-200 ppm	Molybdenum HR	0-50 ppm	Sulfide LR	0-1.5 ppm
Chlorine - Total (UDV)	0-10 ppm	DEHA	0.0-0.7 ppm	Nickel	0-8 ppm	Surfactants	0-8 ppm
Chlorine Dioxide	0-8.0 ppm	Dissolved Oxygen	0-11.0 ppm	Nitrate-Nitrogen HR	0-3.0 ppm	Tannin	0-10 ppm
Chromium, Hexavalent	0-1.0 ppm	Erythorbic Acid	0-3.0 ppm	Nitrate TesTabs	0-60 ppm	Turbidity	0-400 FTU
Chromium, Total, Hex, Trivalent	0-1.0 ppm	Fluoride	0-2.0 ppm	Nitrite-Nitrogen LR	0-0.8 ppm	Zinc LR	0-3.0 ppm
Chromium (TesTab)	0-1.0 ppm	Hardness (TesTabs)	0-500 ppm	Nitrogen, Total	0-25 mg/L		



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Code 1919 (120V/60Hz) • Code 1919-EX2 (220V/50Hz)

Options:

Small Field Carrying Case, Order Code 1919-GCS150

Large Field Carrying Case, Order Code 1919-GCS440

COD Adapter, Order Code 5-0087

UDV Adapter, Order Code 5-0086