LaMotte

SMART3 Waterproof Colorimeter

Ideal for Water Analysis in the Lab & Field!

The user-friendly SMART3 Colorimeter is the ideal direct reading colorimeter for complete on-site water analyses.

The compact SMART3 Colorimeter is ideal for water analysis in the field or in the lab. Easy to use software allows the analyst to choose a test factor from over 80+ preprogrammed calibrations for LaMotte reagent systems. The reacted sample is always scanned at the optimum wavelength which is automatically selected from the multiple LED optical system and the test result is presented on the large, backlit display. The test result is displayed directly in units of concentration, as well as Absorbance and %T, in one of seven languages. The analyst also has the option of entering up to 25 additional calibrations for analysis with custom reagent systems. Test factors can be arranged in any of three sequences that can be modified at any time to meet changing testing needs. The data logger holds up to 500 time and date stamped data points. A USB connection allows an interface of the colorimeter with a computer for real-time data acquisition and data transfer. The meter logs up to 500 data points.

Features include:

- Large graphical liquid crystal display
- Simple, menu-driven operation
- Alphabetical test selection
- Over 80 pre-programmed tests
- Lithium ion rechargeable battery or computer/wall adapter
- IP67 Waterproof
- Data logger for 500 data points
- 25 User tests
- Backlit display
- Auto-off
- USB port
- European CE mark

Additional advancements include:

- Superior narrow band-width interference filters
- Super Twist Backlit LCD display for improved readability
- Optional software for data storage and manipulation

CE

IP67 WATERPROOF

2 YEAR WARRANTY

Code 1910

Range:	0-125%T
Resolution:	1% FS
Accuracy:	2% FS
CE Mark:	Yes
Light Source:	LED/Filter setup; 428nm, 525nm, 568nm, 638nm
Detector:	Photodiode
Display:	160x100 Backlight LCD, 20x4 line graphics display
Sample Cell:	25 mm round cell, 10 mm square cuvette, 16 mm COD tubes

Datalogging:	Up to 500 data points, USB transfer, time and date stamped
Keypad:	6-button mechanical
Calibration:	Factory set - user adjustable
Power:	USB computer/power charger or Lithium Ion rechargeable battery, 3.7V, 2.5" x 0.75", 1.7 oz.
Dimensions:	19.05 x 8.84 x 6.35 cm; 7.5 x 3.5 x 2.5 inches
Weight:	15 ounces
Bandwidth:	10 mm typical

SMART3 Colorimeter

Code 1910

Includes: Colorimeter, 6 sample tubes, COD/UDV adapter, USB wall/computer adapter, USB cable, Quick Start Guide, manual.

Accessories/Replacement Items:

Description	Order Code
Test Tubes with caps (6)	Code 0290-6
USB Cable	Code 1720
USB Wall Adapter	Code 1721
COD/UDV Adapter	Code 1724
Car Charger	Code 5-0132

SMARTLink 3 Program

Order Code 1901-CD

Interface the SMART3, 2020we/wi, and LTC-3000we/wi meters with a Windows-based personal computer. The program can be used to download data stored in the dataloggers of these meters. The program allows the user to identify, organize, view, manipulate and store data as a database on a PC. Data can also be copied and pasted or exported to other applications as a .csv file.

SMART3 Reagent Systems

New tests are being developed for the SMART3. Please contact our Technical Service Department for information regarding additions of new tests.

Test Factor	Test Method (# or reagents)	SMART3 Range†	SMART3 MDL	# of Tests	Order Code	Ship Code
Alkalinity UDV	Unit Dose Vial (1)	10-250	15-200	100	4318-J	NH
Aluminum	Eriochrome Cyanine R (4)	0.01-0.30	0.01-0.30	50	3641-01-SC	NH
Ammonia Nitrogen LR, Fresh	Salicylate (3)	0.05-1.00	0.02-1.00	25	3659-01-SC	R2
Ammonia Nitrogen LR, Salt	Salicylate (3)	0.10-1.00	0.10-1.00	25	3659-01-SC	R2
Ammonia Nitrogen HR	Nesslerization (2)	0.05-4.00	0.05-4.00	50	3642-SC	R1
Barium	Barium Chloride (1)	5-200	—	50	3638-SC	NH
Benzotriazole**	UV Photolysis (3)	0.5-30.0	—	50	4047-01	R1
Biguanide	Colorimetric (1)	2-70	5-70	50	4044	NH
Borate UDV	Unit Dose Vial (1)	5-80	—	100	4322-J	NH
Boron	Azomethine-H (2)	0.05-0.80	0.05-0.80	50	4868-01	NH
Bromine LR	DPD Tablets (2)	0.10-9.00	0.04-9.00	100	3643-SC	NH
Bromine UDV	Unit Dose Vial DPD (1)	0.1-22.0	0.3-22.0	100	4311-J	NH
Cadmium	PAN (4)	0.02-1.00	0.02-1.00	50	4017-01	R1
Carbohydrazide	Iron Reduction (3)	0.04-0.900	0.005-0.900	100	4857	R1
Chloride TesTab	Argentometric (1)	0.4-30.0	0.5-30.0	50	3693-SC	NH
Chlorine (Free & Total)	DPD Tablets (3)	0.03-4.00	0.02-4.00	100	3643-SC	NH
Chlorine - Free UDV	Unit Dose Vial (1)	0.10-10.00	0.10-10.00	100	4311-J	NH
Chlorine - Liquid DPD	DPD (3)	0.03-4.00	0.30-4.00	144	4859	R1
Chlorine - Total UDV	Unit Dose Vial (1)	0.10-10.00	0.1-10.0	100	4312-J	NH
Chlorine Dioxide	DPD Tablet/Glycine (2)	0.06-8.00	0.04-7.00	50	3644-SC	NH
Chromium Hexavalent	Diphenylcarbohydrazide (1)	0.01-1.00	0.01-1.00	50	3645-SC	HA
Chromium (Total, Hex & Trivalent)	Diphenylcarbohydrazide (5)	0.01-1.00	0.03-1.00	50	3698-SC	HF
Cobalt	PAN (3)	0.04-2.00	0.02-2.00	50	4851-01	LQ
COD LR w/ Mercury*	Digestion (1)	5-150 mg/L	5-150 mg/L	25	0075-SC	R1
COD LR w/o Mercury*	Digestion (1)	5-150 mg/L	5-150 mg/L	25	0072-SC	R1
COD SR w/ Mercury*	Digestion (1)	50-1,500 mg/L	50-1,500 mg/L	25	0076-SC	R1
COD SR w/o Mercury*	Digestion (1)	50-1,500 mg/L	500-1,500 mg/L	25	0073-SC	R1
COD HR w/ Mercury*	Digestion (1)	500-15,000 mg/L	500-15,000 mg/L	25	0077-SC	R1
COD HR w/o Mercury*	Digestion (1)	500-15,000 mg/L	50-15,000 mg/L	25	0074-SC	R1
Color	Platinum Cobalt (0)	20-1,000	15-1,000	∞	NA	NH
Copper, BCA	Bicinchoninic Acid (1)	0.04-3.50	0.05-3.50	50	3640-SC	NH

Ship Codes: NH - Non Hazardous, No Fees; HF - Hazardous Materials, Air & Ground Fees; R1 - Small Quantity Hazardous Materials, No Fees; R2, R3, & LQ - Hazardous Materials, Air Fees Only
* Requires COD Adapter Code 5-0087 and Heater Block. ** UV lamp 31041-1; UV lamp power source 31041-2; UV safety goggles 31041. † As ppm except as otherwise indicated.

SMART3 Reagent Systems continued on the next page...

Test Factor	Test Method (# or reagents)	SMART3 Range†	SMART3 MDL	# of Tests	Order Code	Ship Code
Copper, Cuprizone	Cuprizone (2)	0.03-2.00	0.01-2.00	50	4023	R1
Copper, DDC	Diethyldithiocarbamate (1)	0.10-6.00	0.05-6.00	50	3646-SC	NH
Copper UDV	Unit Dose Vial, Bicinchoninic Acid (1)	0.1-4.0	0.20-4.00	100	4314-J	NH
Cyanide	Pyridine-Barbituric Acid (5)	0.03-0.35	0.05-0.50	50	3660-01-SC	R1
Cyanuric Acid	Melamine (1)	10-200	16-200	100	3661-01-SC	R1
Cyanuric Acid UDV	Unit Dose Vial, Melamine (1)	10-150	5-150	100	4313-J	NH
DEHA	Iron Reduction (3)	0.01-0.70	0.005-0.700	100	4857	NH
Dissolved Oxygen (DO)	Winkler Colorimetric (3)	0.6-11.0	0.3-12.0	100	3688-SC	R1
Erythorbic Acid	Iron Reduction (3)	0.02-3.00	0.02-3.00	100	4857	R1
Fluoride	SPADNS (2)	0.1-2.0	0.1-2.0	50	3647-02-SC	R1
Hardness (Total) UDV	UDV (1)	10-500	10-500	100	4309-J	NH
Hydrazine	P-dimethylaminobenzaldehyde (2)	0.01-1.00	0.010-0.750	50	3656-01-SC	R2
Hydrogen Peroxide LR	DPD (2)	0.02-1.50	0.02-1.50	100	3662-SC	NH
Hydrogen Peroxide HR	DPD (2)	1-60	1-60	50	4045-01	NH
Hydrogen Peroxide Shock	DPD (2)	10-225	4-225	100	4045-01	NH
Hydroquinone	Iron Reduction (3)	0.01-2.00	0.01-1.80	100	4857	R1
Iodine	DPD Tablets (2)	0.2-14.0	0.08-14.00	100	3643-SC	NH
Iron	Bipyridyl (2)	0.10-6.00	0.06-6.00	50	3648-SC	R1
Iron UDV	Unit Dose Vial, Bipyridyl (1)	0.1-10.0	0.07-10.00	100	4315-J	NH
Iron, Phenanthroline	1,10 Phenanthroline (2)	0.1-5.0	0.04-4.50	50	3668-SC	R1
Lead	PAR (5)	0.1-5.0	0.1-5.0	50	4031-01	R1
Manganese LR	PAN (3)	0.01-0.70	0.02-0.70	50	3658-01-SC	HF
Manganese HR	Periodate (2)	0.3-15.0	0.3-15.0	50	3669-SC	R1
Mercury	TMK (3)	0.01-1.50	0.02-1.50	50	4861-01	LQ
Methylethylketoxime	Iron Reduction (3)	0.01-3.00	0.02-3.00	100	4857	R1
Molybdenum HR	Thioglycolate (3)	0.6-50.0	0.2-15.0	50	3699-03-SC	R1
Nickel	Dimethylglyoxime (6)	0.15-8.00	0.06-8.00	50	3663-01-SC	LQ
Nitrate Nitrogen LR	Cadmium Reduction (2)	0.10-3.00	0.05-3.00	20	3649-SC	R1
Nitrate TesTabs	Zinc Reduction (1)	5-60	3-60	50	3689-SC	NH
Nitrate UDV	Unit Dose Vial, Zinc Reduction	2-80	—	100	4321-J	NH
Nitrite Nitrogen LR	Diazotization (2)	0.02-0.80	0.020-0.800	20	3650-SC	NH
Nitrogen, Total*	Chromotropic Acid/Digestion (6)	3-25 mg/L	2-25 mg/L	25	4026-01	R1
Oxygen Scavengers	Iron Reduction (3)	various	various	100	4857	R1
Ozone	DPD (3)	0.03-3.00	—	100	4881-01	R1
Ozone LR	Indigo Trisulfonate (3)	0.01-0.40	0.02-0.40	100	3651-SC	NH
Ozone HR	Indigo Trisulfonate (3)	0.05-2.50	0.05-1.50	20	3651-SC	NH
pH, CPR	Chlorophenol Red (3)	5.0-6.8 pH	5.0-7.0 pH	100	3700-01-SC	NH
pH, PR	Phenol Red (3)	6.6-8.4 pH	6.8-8.4 pH	100	3700-01-SC	NH
pH, TB	Thymol Blue (3)	8.0-9.5 pH	8.0-9.5 pH	100	3700-01-SC	NH
pH UDV	Unit Dose Vial (1)	6.6-8.2	—	100	4310-J	NH
Phenol	Aminoantipyrine (3)	0.05-6.00	0.05-6.00	50	3652-01-SC	NH
Phosphate LR	Ascorbic Acid Reduction (2)	0.05-3.00	0.04-3.00	50	3653-SC	R2
Phosphate HR	Vanodomolybdophosphoric Acid (1)	0.5-70.0	1.0-70.0	50	3655-SC	R1
Phosphate, ppb	Ascorbic Acid/Digestion (2)	50-3000 ppb	—	50	3653-SC	R2
Phosphorus, Total - LR*	Ascorbic Acid/Digestion (5)	0.50-3.50 mg/L	0.07-3.50 mg/L	25	4024-01	R1
Phosphorus, Total - HR*	Molybdovanadate/Digestion (5)	5-100 mg/L	5.0-100.0 mg/L	25	4025-01	R1
Potassium	Tetraphenylboron (2)	0.8-10.0	0.5-10.0	100	3639-SC	R1
Silica LR	Heteropoly Blue (4)	0.05-4.00	0.03-2.50	100	3664-SC	R1
Silica HR	Silicomolybdate (3)	1-75	1-50	50	3687-SC	R1
Sulfate HR	Barium Chloride (1)	3-100	5-100	100	3665-SC	R1
Sulfide LR	Methylene Blue (3)	0.06-1.50	0.02-1.00	50	3654-02-SC	R1
Surfactants	Bromphenol Blue (3)	0.5-8.0	0.5-8.0	100	4876-01	LQ
Tannin	Tungsto-Molybdophosphoric Acid (3)	0.1-10.0	0.2-10.0	50	3666-01-SC	R1
Tolyltriazole**	UV Oxidation/Dichromate (3)	0.5-30.0	—	50	4047-01	R1
Turbidity	Absorptimetric (0)	3-400 FAU	2-400 FTU	∞	NA	NH
Zinc LR	Zincon (6)	0.05-3.00	0.03-3.00	50	3667-01-SC	LQ

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