

Water Analysis Colorimetry

LaMotte SMART 2 Colorimeter

The user-friendly SMART 2 Colorimeter is the direct reading colorimeter for complete on-site water analysis. All of the 50 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.

FEATURES

- Menu-driven display
- 85 pre-programmed tests with 10 user 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 430 nm, 520 nm, 570 nm, 620 nm
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, 16 mm COD tubes
Power	9V or AC adapter
Battery Life	500 tests
Datalogging	RS-232, time and date stamped
Calibration	Factory set
Keypad	6-button membrane switch
Size	15 x 8 x 5.5 cm; 6" x 3.25" x 2.5"
Weight	11 ounces



CALL GEOTECH TODAY (800) 833-7958

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SMART REAGENT SYSTEMS

Test Factor	Range ppm	Test Method (# of reagents)	# of Tests	Case Size*	Order Code
Alkalinity UDV†	10-200	UDV (1)	50	E	4318-H
Aluminum	0.01-0.30	Eriochrome Cyanine R (4)	50	C	3641-SC
Ammonia Nitrogen-LR (Fresh Water)	0.05-1.00	Salicylate (3)	25	A	3659-01-SC
Ammonia Nitrogen-LR (Salt Water)	0.10-1.00	Salicylate (3)	25	A	3659-01-SC
Ammonia Nitrogen HR	0.05-4.00	Nesslerization (2)	50	A	3642-SC
Benzotriazole	1-30	UV Photolysis	50	C	4047
Biquanide	7-70	Colorimetric	50	A	4044
Boron	0.05-0.80	Azomethine-H (2)	50	D	4868
Bromine LR	0.10-9.00	DPD Tablets (3)	100	A	3643-SC
Bromine UDV†	0.35-22.00	Unit Dose Vial (1)	50	E	4311-H
Cadmium	0.025-1.00	PAN (4)	50	E	4017
Carbohydrazide	0.005-0.900	Iron Reduction (3)	100	E	4857
Chloride TesTab	0.5-30.0	Argentometric (1)	50	A	3693-SC
Chlorine	0.05-4.00	DPD Tablets (3)	100	A	3643-SC
Chlorine Free UDV†	0.15-10.00	DPD (1)	50	E	4311-H
Chlorine Liquid DPD	0.05-4.00	DPD (3)	144	A	4859
Chlorine Total UDV†	0.15-10.00	DPD (1)	50	E	4312-H
Chlorine Dioxide	0.10-8.00	DPD tablet/Glycine (2)	50	A	3644-SC
Chromium Hexavalent	0.02-1.00	Diphenylcarbohydrazide (1)	100	A	3645-SC
Chromium TesTab	0.05-1.00	Diphenylcarbohydrazide (1)	50	A	3697-SC
Chromium (Total, Hex & Trivalent)	0.02-1.00	Diphenylcarbohydrazide (5)	100	D	3698-SC
Cobalt	0.025-2.00	PAN (3)	50	D	4851
COD LR 0-150 with Mercury‡	5-150	Digestion (1)	25	D	0075-SC
COD LR 0-150 without Mercury‡	5-150	Digestion (1)	25	D	0072-SC
COD SR 0-1500 with Mercury‡	50-1,500	Digestion (1)	25	D	0076-SC
COD SR 0-1,500 without Mercury‡	50-1,500	Digestion (1)	25	D	0073-SC
COD HR 0-15,000 with Mercury‡	500-15,000	Digestion (1)	25	D	0077-SC
COD HR 0-15,000 without Mercury‡	500-15,000	Digestion (1)	25	D	0074-SC
Color	20-1,000	Platinum Cobalt (0)	∞	—	NA
Copper BCA – L	0.04-3.50	Bicinchoninic Acid (1)	50	A	3640-SC
Copper Cuprizone	0.03-2.00	Cuprizone (2)	50	A	4023
Copper DDC	0.05-6.00	Diethyldithiocarbamate (1)	100	A	3646-SC
Copper UDV†	0.5-4.0	UDV, Bicinchoninic acid (1)	50	E	4314-H
Cyanide	0.01-0.50	Pyridine-Barbituric Acid (5)	50	C	3660-SC
Cyanuric Acid	10-200	Melamine (1)	100	C	3661-SC
Cyanuric Acid UDV†	6-150	Melamine, UDV (1)	50	E	4313-H
DEHA	0.005-0.700	Iron Reduction (3)	100	A	4857
Dissolved Oxygen (DO)	0.25-11.0	Winkler Colorimetric (3)	100	A	3688-SC
Erythorbic Acid	0.02-3.00	Iron Reduction (3)	100	A	4857
Fluoride	0.05-2.00	SPADNS (2)	50	B	3647-01-SC

† Requires UDV Adapter Code Number 5-0086 and Accessory Package 1961 or 1962.

‡ Requires COD Adapter Code Number 5-0087 and Heater Block.

Test Factor	Range ppm	Test Method (# of reagents)	# of Tests	Case Size*	Order Code
Hardness (Total) UDV†	15-350	UDV	50	E	4309-H
Hydrazine	0.01-1.00	p-dimethylaminobenzaldehyde (2)	25	A	3656-SC
Hydrogen Peroxide LR	0.03-1.50	DPD Tablets (2)	100	A	3662-SC
Hydrogen Peroxide HR	4-60	DPD	100	B	4045
Hydrogen Peroxide Shock	10-225	DPD	100	B	4045
Hydroquinone	0.01-2.00	Iron Reduction (3)	100	A	4857
Iodine	0.20-14.00	DPD Tablets (2)	100	A	3643-SC
Iron	0.10-6.00	Bipyridyl (2)	50	A	3648-SC
Iron UDV†	0.20-10.00	Bipyridyl UDV (1)	50	E	4315-H
Iron	0.08-5.00	1, 10 Phenanthroline (2)	50	A	3668-SC
Lead	0.1-5.0	PAR (5)	50	D	4031
Manganese LR	0.02-0.70	PAN (3)	50	B	3658-01-SC
Manganese HR	0.3-15.0	Periodate (2)	50	A	3669-SC
Mercury	0.02-1.50	TMK (3)	50	D	4861
Methylethylketoxime	0.02-3.00	Iron Reduction (3)	100	A	4857
Molybdenum HR	0.5-50	Thioglycolate (3)	50	B	3699-02-SC
Nickel	0.10-8.00	Dimethylglyoxime (6)	50	D	3663-SC
Nitrate Nitrogen LR	0.10-3.00	Cadmium Reduction (2)	20	A	3649-SC
Nitrate TesTab	5-60	Zinc Reduction (1)	50	A	3689-SC
Nitrite Nitrogen LR	0.02-0.80	Diazotization (2)	20	A	3650-SC
Nitrite TesTab	0.03-1.25	Diazotization (1)	50	A	3886-SC
Nitrogen, Total‡	3-25	Chromotropic Acid and Persulfate Digestion	25	D	4026
Ozone LR	0.020-0.400	Indigo Trisulfonate (3)	100	D	3651-SC
Ozone HR	0.05-2.50	Indigo Trisulfonate (3)	20	D	3651-SC
pH CPR (Chlorphenol Red)	5.0-6.8	Colorimetric (3)	100	B	3700-SC
pH PR (Phenol Red)	6.6-8.4	Colorimetric (3)	100	B	3700-SC
pH TB (Thymol Blue)	8.0-9.6	Colorimetric (3)	100	B	3700-SC
Phenol	0.05-6.00	4-Aminoantipyrine (3)	50	B	3652-SC
Phosphate LR	0.05-3.00	Ascorbic Acid Reduction (2)	50	A	3653-SC
Phosphate HR	1-70	Vanadomolybdophosphoric Acid (1)	50	A	3655-SC
Phosphorus, Total LR‡	0.10-3.50	Ascorbic Acid and Persulfate Digestion	25	D	4024
Phosphorus, Total LR‡	5.0-100.0	Molybdoranadate and Persulfate Digestion	25	D	4025
Potassium	0.8-10.0	Tetraphenylboron (2)	100	A	3639-SC
Silica LR	0.05-4.00	Heteropoly Blue (4)	50	A	3664-SC
Silica HR	0.5-75.0	Silicomolybdate (3)	50	A	3687-SC
Sulfate	4-100	Barium Chloride (1)	50	A	3665-SC
Sulfide LR	0.02-1.50	Methylene Blue (3)	50	B	3654-01-SC
Surfactants	0.75-8.00	Bromphenol Blue (3)	50	D	4876
Tannin	0.1-10.0	Tungstomolybdophosphoric Acid (2)	50	B	3666-SC
Tolytrazole	1.0-30.0	UV Oxidation/Dichromate	50	C	4047
Turbidity	2-400	Absorptometric (0)	∞	—	NA
Zinc LR	0.05-3.00	Zincon (6)	50	D	3667-SC

*Case Type

A 7 x 7 x 10 cm

B 14.5 x 6.5 x 13 cm

C 14.5 x 9.5 x 13.5 cm

D Stand-alone cases. Will not fit into optional field carrying cases.

E 13 x 7 x 12.5 cm