

SMART3[®] COLORIMETER

- 80+ pre-programmed tests
- Automatic wavelength selection
- Menu-driven operation
- Accepts COD vials and cuvettes
- Waterproof to IP67
- Seven languages



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 a large, backlit display. The analyst also has the option of entering up to 25 additional calibrations for analysis with custom reagent systems. The data logger holds up to 500 time and date stamped data points which can be downloaded via a USB connection.



SMART3[®] COLORIMETER

ORDER INFORMATION:

SMART 3

Code 1910 • Price \$950.00
*(Comes with 4 sample tubes,
 USB cable, USB wall plug,
 instruction manual)*

Light Source:	LED/Filter setup at 428, 525, 568, 635 nm	Power:	USB wall charger or Lithium ion rechargeable battery
Detector:	Photodiodes	Battery Life:	500 tests
Display:	160x100 backlit LCD, 20x6 line graphics display	Datalogging:	Up to 500 data points; USB transfer, time and date stamped
Range:	0-125%T	Calibration:	Factory set; user adjustable
Resolution:	1% FS	Keypad:	6-button mechanical
Accuracy:	2% FS	Size:	19.05 x 8.89 x 6.35 cm; 7.5 x 3.5 x 2.5 inches
CE Mark:	Yes	Weight:	16 ounces
Sample Cell:	25 mm round cell, 10 mm square cuvette, 16 mm COD tubes	Languages:	English, French, Spanish, Japanese, Italian, Portuguese, Chinese

Test Name	Test Method (# of reagents)	Range (ppm)	# of Tests	Order Code#
Alkalinity UDV	UDV (1)	10-200	50	4318-H
Aluminum	Eriochrome Cyanine R (4)	0.01-0.30	50	3641-SC
Ammonia Nitrogen (Fresh/Salt)	Salicylate (3)	0.05-1.00/ 0.10-1.00	25	3659-01-SC
Ammonia Nitrogen HR	Nesslerization (2)	0.05-4.00	50	3642-SC
Biguanide	Colorimetric (1)	7-70	50	4044
Boron	Azomethine-H	0.05-0.80	50	4868
Bromine LR	DPD (2)	0.1-9.0	100	3643-SC
Benzotriazole/ Tolytriazole	UV Photolysis (4)	1-30	50	4047
Bromine-UDV	DPD (1)	0.35-22.00	50	4311-H
Cadmium	PAN (4)	0.025-1.000	50	4017
Ca & Mg Hardness UDV	UDV (1)	15-400	50	4309-H
Carbohydrazide	Iron Reduction (3)	0.005-0.900	100	4857
Chloride TT	Test Tab	0.5-30.0	50	3693-SC
Chlorine	DPD Tablets (2)	0.05-4.00	100	3643-SC
Chlorine, Free, UDV	DPD (1)	0.15-10.00	50	4311-H
Chlorine, Liquid, DPD	DPD (3)	0.05-4.00	100	4859
Chlorine, Total, UDV	DPD (1)	0.15-10.00	50	4312-H
Chlorine Dioxide	DPD tablet/Glycine (2)	0.1-8.0	50	3644-SC
Chromium Hexavalent	Diphenylcarbohydrazide (1)	0.02-1.00	100	3645-SC
Chromium (Total, Hex & Trivalent)	Diphenylcarbohydrazide (1)	0.05-1.00	100	3698-SC
Cobalt	PAN	0.025-2.000	50	4851
COD LR w/ Mercury	Digestion (1)	5-150	25	0075-SC
COD LR w/o Mercury	Digestion (1)	5-150	25	0072-SC
COD SR w/ Mercury	Digestion (1)	50-1500	25	0076-SC
COD SR w/o Mercury	Digestion (1)	50-1500	25	0073-SC
COD HR w/ Mercury	Digestion (1)	500-15,000	25	0077-SC
COD HR w/o Mercury	Digestion (1)	500-15,000	25	0074-SC
Color	Platinum Cobalt	20-1000	∞	NA
Copper BCA - LR	Bicinchoninic Acid (1)	0.04-3.50	50	3640-SC
Copper Cuprizone	Cuprizone (2)	0.03-2.0 0	50	4023
Copper DDC	Diethyldithiocarbamate (1)	0.05-6.00	100	3646-SC
Copper UDV	UDV, Bicinchoninic acid (1)	0.5-4.0	50	4314-H
Cyanide	Pyridine-Barbituric Acid (5)	0.01-0.50	50	3660-SC
Cyanuric Acid	Melamine (1)	10-200	50	3661-SC
Cyanuric Acid UDV	Melamine, UDV (1)	6-150	50	4313-H
DEHA	Iron Reduction (3)	0.005-0.700	100	4857
Dissolved Oxygen (DO)	Winkler Colorimetric (3)	0.25-11.00	200	3688-SC
Erythorbic Acid	Iron Reduction (3)	0.02-3.00	100	4857
Fluoride	SPADNS (2)	0.05-2.0	50	3647-01-SC
Hydrazine	P-dimethylaminoben- zaldehyde (2)	0.01-1.00	50	3656-SC
Hydrogen Peroxide LR	DPD (2)	0.03-1.50	100	3662-SC

Test Name	Test Method (# of reagents)	Range (ppm)	# of Tests	Order Code#
Hydrogen Peroxide HR	DPD (2)	4-60	100	4045
Hydrogen Peroxide, Shock	DPD (2)	10-225	100	4045
Hydroquinone	Iron Reduction (3)	0.01-2.00	100	4857
Iodine	DPD Tablets (2)	0.2-14.0	100	3643-SC
Iron	Bipyridyl (2)	0.1-6.0	50	3648-SC
Iron UDV	Bipyridyl UDV (1)	0.2-10.0	50	4315-H
Iron Phen	1,10 Phenanthroline (2)	0.08-5.00	50	3668-SC
Lead	PAR (5)	0.1-5.0	50	4031
Manganese LR	PAN (3)	0.02-0.70	50	3658-SC
Manganese HR	Periodate (2)	0.3-15.0	50	3669-SC
Mercury	TMK	0.02-1.50	50	4861
m-e-ketoxime	Iron Reduction (3)	0.02-3.00	100	4857
Molybdenum HR	Thioglycolate (3)	0.5-50.00	50	3699-02-SC
Nickel	Dimethylglyoxime (6)	0.1-8.0	50	3663-SC
Nitrate Nitrogen LR	Cadmium Reduction (2)	0.1-3.0	20	3649-SC
Nitrate TT	Zinc Reduction (1)	5-60	50	3689-SC
Nitrite Nitrogen LR	Diazotization (2)	0.02-0.80	20	3650-SC
Nitrogen, Total	Chromotropic Acid with Persulfate Digestion (6)	3-25 mg/L	25	4026
Ozone LR	Indigo Trisulfonate (3)	0.02-0.40	100	3651-SC
Ozone HR	Indigo Trisulfonate (3)	0.05-2.50	20	3651-SC
Ozone	DPD (3)	0.0-3.00 mg/L	150	4881
pH CPR (Chlorphenol Red)	Colorimetric (3)	5.0-6.8	100	3700-SC
pH PR (Phenol Red)	Colorimetric (3)	6.6-8.4	100	3700-SC
pH TB (Thymol Blue)	Colorimetric (3)	8.0-9.6	100	3700-SC
Phenol	4-Aminoantipyrine (3)	0.05-6.00	50	3652-SC
Phosphate LR	Ascorbic Acid Reduction (2)	0.05-3.00	50	3653-SC
Phosphate HR	Molybdovanadate (1)	1-70	50	3655-SC
Phosphorus Total-LR	Ascorbic Acid/Digestion (5)	0.1-3.5 mg/L	25	4024
Phosphorus Total-HR	Molybdovanadate/ Digestion (5)	5-100 mg/L	25	4025
Potassium	Tetraphenylboron (2)	0.8-10.0	100	3639-SC
Silica LR	Heteropoly Blue (4)	0.05-4.00	100	3664-SC
Silica HR	Silicomolybdate	0.5-75.0	50	3687-SC
Sulfate HR	Barium Chloride (1)	4-100	100	3665-SC
Sulfide LR	Methylene Blue (3)	0.025-1.500	50	3654-01-SC
Surfactants	Ion Pair Extraction (3)	0.75-8.0	100	4876
Tannin	Tungsto-Molybdophos- phoric Acid (2)	0.1-10.0	50	3666-SC
Tolytriazole	UV Photolysis (4)	1-30	50	4047
Turbidity	Absorptimetric	2-400 FTU	∞	NA
Zinc LR	Zincon (6)	0.05-3.00	50	3667-SC



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