



# SMART3 Waterproof Colorimeter

Replaceable Cup  
Protects Optics

Backlit  
Display

Simple  
6-Button Keypad



Code 1910

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 60 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.

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

## Features include:

- Large graphical liquid crystal display
- Simple, menu-driven operation
- Alphabetical test selection
- 67 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

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 nm typical

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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 1720-01
USB Wall Adapter	Code 1721
COD/UDV Adapter	Code 1724
Car Charger	Code 5-0132
Clear Cup Replacement	Code 3-0038



# 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 [# of reagents]	Range ppm*	# of Tests	Order Code	Shipping Code/Prop 65‡
Alkalinity	Tablet, Colorimetric [1]	10-250	50	3670-SC	NH
Aluminum	Eriochrome Cyanine R [4]	0.01-0.30	50	3641-01-SC	NH/R
Ammonia Nitrogen LR [Fresh & Salt Water]	Salicylate [3]	0.05-1.00/0.10-1.00	25	3659-02-SC	R2/R
Ammonia Nitrogen HR	Nesslerization [2]	0.05-4.00	50	3642-SC	R1/R
Barium	Barium Chloride [1]	5-200	50	3638-SC	NH/R
Biquinide	Colorimetric [1]	2-70	50	4044	NH
Boron	Azomethine-H [2]	0.05-0.80	50	4868-01	NH
Bromine	Liquid, DPD [3]	0.00-3.00	144	4859	R1
Bromine	DPD Tablets [3]	0.10-9.00	100	3643-SC	NH
Cadmium	PAN [4]	0.02-1.00	50	4017-01	R1/R
Carbohydrazide	Iron Reduction [3]	0.04-0.90	100	4857	R1
Chloride	Tablet, Argentometric [1]	0.4-30.0	50	3693-SC	NH
Chlorine [Free & Total]	DPD Tablets [3]	0.03-4.00	100	3643-SC	NH
Chlorine	Liquid, DPD [3]	0.03-4.00	144	4859	R1
Chlorine Dioxide	DPD tablet/Glycine [2]	0.06-8.00	100	3644-SC	NH
Chromium [Hexavalent]	Diphenylcarbohydrazide [1]	0.01-1.00	100	3645-SC	HA
Chromium [Total, Hex & Trivalent]	Diphenylcarbohydrazide [5]	0.01-1.00	100	3698-SC	HF
Cobalt	PAN [3]	0.04-2.00	50	4851-01	HF/R
COD LR with Mercury†	Digestion [1]	5-150 mg/L	25	0075-SC	R1
COD LR without Mercury†	Digestion [1]	5-150 mg/L	25	0072-SC	R1
COD SR with Mercury†	Digestion [1]	50-1,500 mg/L	25	0076-SC	R1
COD SR without Mercury†	Digestion [1]	50-1,500 mg/L	25	0073-SC	R1
COD HR with Mercury†	Digestion [1]	500-15,000 mg/L	25	0077-SC	R1
COD HR without Mercury†	Digestion [1]	500-15,000 mg/L	25	0074-SC	R1/R
Color	Platinum Cobalt [0]	20-1,000 Cu	∞	NA	NH
Copper BCA - LR	Bicinchoninic Acid [1]	0.04-3.50	50	3640-SC	NH
Copper	Cuprizone [2]	0.03-2.00	50	4023	R1
Copper DDC	Diethyldithiocarbamate [1]	0.10-6.00	100	3646-SC	NH/B
Cyanide	Pyridine-Barbituric Acid [5]	0.03-0.35	50	3660-01-SC	R1
Cyanuric Acid	Melamine [1]	10-200	40	3661-01-SC	NH
Cyanuric Acid	Tablet, Melamine [1]	10-110	50	3673-SC	NH
DEHA	Iron Reduction [3]	0.01-0.70	100	4857	R1
Dissolved Oxygen [DO]	Winkler Colorimetric [3]	0.6-11.0	200	3688-SC	R1
Erythorbic Acid	Iron Reduction [3]	0.02-3.00	100	4857	R1
Fluoride	SPADNS [2]	0.1-2.0	50	3647-02-SC	R1
Hardness, Total	Tablet, Colorimetric [1]	10-400	50	3671-SC	NH
Hydrazine	p-dimethylaminobenzaldehyde [2]	0.01-0.75	50	3656-01-SC	NH
Hydrogen Peroxide LR	DPD [2]	0.02-1.50	100	3662-SC	NH
Hydrogen Peroxide HR	DPD [2]	1-60	100	4045-01	NH

Shipping Codes: [NH] Non-Hazardous Material - No Fees; [R1] Small Qty. Hazardous Material - No Fees; [LQ, R2, R3] Hazardous Material - Air Fees Only; [HF] Hazardous Material - Air & Ground Fees.

\* Range as ppm except as otherwise indicated

† Requires COD Heater Block - Order Code 5-0102 [Sold Separately] & COD Adapter - Order Code 1724 [Sold Separately]

‡ Prop 65: C: ⚠️ WARNING Cancer - [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product); R: ⚠️ WARNING Reproductive Harm - [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product); B: ⚠️ WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product)

SMART3 Reagent Systems continued on the next page...

Test Factor	Test Method [# of reagents]	Range ppm*	# of Tests	Order Code	Shipping Code/Prop 65‡
Hydrogen Peroxide Shock	DPD [2]	10-225	100	4045-01	R2
Hydroquinone	Iron Reduction [3]	0.01-2.00	100	4857	R1
Iodine	DPD Tablets [2]	0.2-14.0	100	3643-SC	NH
Iron	Bipyridyl [2]	0.10-6.00	50	3648-SC	R1
Iron, Total, Ferrous, Ferric	1,10 Phenanthroline [2]	0.1-5.0	50	3668-SC	R1
Lead	PAR [5]	0.1-5.0	50	4031-01	R1/C
Manganese LR	PAN [3]	0.01-0.70	50	3658-01-SC	HF/R
Manganese HR	Periodate [2]	0.3-15.0	50	3669-SC	R1
Methylethylketoxime	Iron Reduction [3]	0.01-3.00	100	4857	R1
Molybdenum HR	Thioglycolate [3]	0.6-50.0	50	3699-03-SC	R1
Nickel	Dimethylglyoxime [6]	0.15-8.00	50	3663-01-SC	HF/R
Nitrate Nitrogen LR	Cadmium Reduction [2]	0.10-3.00	20	3649-01-SC	R1/B
Nitrate	Tablet, Zinc Reduction [1]	5-60	50	3689-SC	NH
Nitrite Nitrogen LR	Diazotization [2]	0.02-0.80	20	3650-SC	NH
Oxygen Scavengers	Iron Reduction	various	100	4857	R1
Ozone	DPD [4]	0.03-3.00	100	4881-01	NH
Ozone LR	Indigo Trisulfonate [3]	0.01-0.40	100	3651-SC	NH
Ozone HR	Indigo Trisulfonate [3]	0.05-2.50	20	3651-SC	NH
pH CPR	Chlorophenyl Red [1]	pH 5.0-6.8	100	3700-01-SC	NH
pH PR	Liquid, Phenol Red [1]	pH 6.6-8.4	100	3700-01-SC	NH
pH TB	Thymol Blue [1]	pH 8.0-9.5	100	3700-01-SC	NH
pH	Tablet, Phenol Red [1]	pH 6.6-8.4	50	3672-SC	NH
Phenol	Aminoantipyrine [3]	0.05-6.00	50	3652-01-SC	NH
Phosphate LR	Ascorbic Acid Reduction [2]	0.05-3.00	50	3653-SC	R2/C
Phosphate HR	Vanodomolybdovanadate Acid [1]	1-70	50	3655-SC	R1
Phosphorus, ppb	Ascorbic Acid/Digestion [5]	50-3000	50	3653-SC	R2/C
Phosphorus, Total - LR†	Ascorbic Acid/Digestion [5]	0.50-3.50 mg/L	25	4024-01	R1
Phosphorus, Total - HR†	Molybdovanadate/ Digestion [5]	5-100mg/L	25	4025-01	R1
Potassium	Tetraphenylboron [2]	0.8-10.0	100	3639-SC	R1
Silica LR	Heteropoly Blue [4]	0.05-4.00	100	3664-SC	R1
Silica HR	Silicomolybdate [3]	1-75	50	3687-SC	R1
Sulfate HR	Barium Chloride [1]	3-100	100	3665-SC	R1
Sulfide LR	Methylene Blue [3]	0.06-1.50	50	3654-02-SC	R1
Surfactants	Bromthymol Blue [3]	0.5-8.0	100	4876-01	HF/B
Tannin	Tungsto-Molybdophosphoric Acid [2]	0.1-10.0	50	3666-01-SC	R1
Turbidity	Absorptimetric [0]	3-400 FTU	◊	NA	NH
Urea	Urease/Salicylate [4]	0.4-6.0	50	3674-SC	LQ
Zinc LR	Zincon [6]	0.05-3.00	50	3667-01-SC	HF/B

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