

FIELD Environmental Instruments

Equipment Rental and Field Supplies

LAMOTTE

SMART Colorimeter and Reagent System

"Your Needs Are Our Business"

Toll-Free
800-393-4009



SPECIFICATIONS

Range: Transmittance: 0-100%;
Absorbance: 0-2.0 AU

Resolution: 1% of %T reading

Filters: 420, 460, 510, 530, 570, 605 nm

Bandpass: 10 nm (typical)

Light Source: Tungsten lamp

Detector: Silicon photodiode

Display: LCD 4 lines by 16 characters

Sample System: 21 mm flat bottom round tubes with screw caps

Output: RS-232

Baud Rate: 9600 b

Power: AC adapter or 3 AA rechargeable NiCd batteries

Dimensions: 27 x 9 x 12.7 cm
(10.3 x 3.6 x 5.0 inches)

Weight: 900 g (2 lbs.)

A colorimeter truly designed for the analyst measuring a variety of water quality parameters. Proper wavelength selection is no longer a concern for the analyst because all optical filters are included and automatically selected by the SMART Colorimeter ®.

Advanced Features:

This portable photometer has the following features:

- Simple, menu-driven operation
- 65 test capacity; 40 pre-programmed tests in library and 25 user-entered tests
- Alphabetical test selection
- User-selected test sequences
- Self diagnostics with error/warning messages
- Instant readiness without delays; achieved by active stabilization of lamp intensity
- Auto-blank
- Auto-off
- European CE mark

Filter Wheel

A six wavelength filter wheel and motor automatically prepare the optical system for all tests.

Menu Driven Display

Tests and functions are selected from scrolling menus for ultimate simplicity. Results are displayed in concentration (ppm), %T, or absorbance.

User Calibrations & Test Sequences

Up to 25 calibrations for additional tests can be entered into the memory to display results as concentration (ppm). The user can also customize sequences for frequently run tests.

RS-232 & AC Power Ports

An RS-232 port is installed for computer interfacing. So that power is never a problem, an AC adapter and rechargeable NiCd batteries are included; an optional vehicle cigarette lighter adapter is available.

The user may select any of six wavelengths to determine the absorbance or %T of a sample at the desired wavelength.

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- Superior narrow band-width interference filters
- New Super Twist LCD display for improved readability
- RS-232 interface
- Optional computer cable and software for data storage and manipulation
- Rechargeable NiCd batteries and AC adapter are included.

REAGENT SYSTEMS

Test Factor	Range ppm	Test Method (# of Reagents)	# of Tests	Case Type	Order Code
Aluminum	0-0.3	Eriochrome Cyanine R (4)	50	C	3641-SC
Ammonia Nitrogen	0-1.0	Salicylate (3)	25	A	3659-SC
Ammonia Nitrogen	0-3.0	Nesslerization (2)	50	A	3642-SC
Bromine	0-10	DPD Tablets (2)	100	A	3643-SC
Chlorine	0-4.0	DPD Tablets (2)	100	A	3643-SC
Iodine	0-16	DPD Tablets (2)	100	A	3643-SC
Chlorine Dioxide	0-7.0	DPD Tablet/Glycine (2)	50	A	3644-SC
Chromium, Hexavalent	0-1.0	Diphenylcarbohydrazide (1)	100	C	3645-SC
Chromium, Total, Hexa- & Trivalent	0-1.0	Diphenylcarbohydrazide (1)	100	D	3698-SC
COD, Low	5-150	Digestion (mercury free)	50	D	5-3684-SC
COD, Low	5-150	Digestion (contains mercury)	50	D	5-0002-SC
COD, Standard	20-900	Digestion (mercury free)	50	D	5-3685-SC
COD, Standard	20-900	Digestion (contains mercury)	50	D	5-0003-SC
COD, High	100-4500	Digestion (mercury)	50	D	5-0007-SC
Copper	0-5.0	Diethyldithiocarbamate (1)	100	A	3646-SC
Copper	0-3.0	Bicinchoninic Acid (1)	50	A	3640-SC
Cyanide	0-0.5	Pyridine-Barbituric Acid (5)	50	C	3660-SC
Cyanuric Acid	5-200	Melamine(1)	50	C	3661-SC
Fluoride	0-2.0	SPADNS (2)	50	B	3647-SC
Hydrazine	0-1.0	P-dimethylaminobenzaldehyde (2)	50	A	3656-SC
Hydrogen Peroxide	0-1.5	DPD Tablets (2)	100	A	3662-SC
Iron	0-5.0	Bipyridyl (2)	50	A	3648-SC
Iron	0-6.0	1,10 Phenanthroline (2)	50	A	3668-SC
Manganese (LR)	0-0.9	PAN (3)	50	B	3658-SC
Manganese (HR)	0-10.0	Periodate (2)	50	A	3669-SC
Molybdenum	0-30	Thioglycolate (3)	50	B	3699-01-SC
Nickel	0-10.0	Dimethylglyoxime (6)	50	D	3663-SC
Nitrate Nitrogen	0-3.0	Cadmium Reduction (2)	20	A	3649-SC
Nitrite Nitrogen	0-0.7	Diazotization/Coupling (2)	20	A	3650-SC
Oxygen, Dissolved	0-12.5	Winkler Colorimetric (3)	200	A	3688-SC
Ozone	0-0.4	Indigo Trisulfonate (3)	100	D	3651-SC
pH	5.0-9.6	Colorimetric (3)	100	C	3700-SC
Phenols	0-6.0	4-Aminoantipyrine (3)	50	C	3652-SC
Phosphate (HR)	0-80.0	Molybdovanadate (1)	50	A	3655-SC
Phosphate (LR)	0-3.0	Ascorbic Acid Reduction (2)	50	A	3653-SC
Potassium	1.0-10.0	Tetraphenylboron (2)	100	A	3639-SC
Silica (LR)	0-4.0	Heteropoly Blue (4)	100	A	3664-SC
Silica (HR)	0-75	Silicomolybdate	50	A	3687-SC
Sulfate	0-100	Barium Chloride (1)	100	A	3665-SC
Sulfide	0-3.0	Methylene Blue (3)	50	B	3654-SC
Tannin	0-10	Tungsto-Molybdophosphoric Acid (2)	50	C	3666-SC
Turbidity	0-400	Absorptimetric	Unlimited	—	—
Zinc	0-3	Zincon (6)	50	D	3667-SC

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