



Colorimeter Reagent Systems

- ✓ Over 50 Pre-Programmed Water Analysis Factors
- ✓ Automatic Wavelength Selection
- ✓ Friendly Menu Driven Operation with Simple Six-Button Keyboard

SC-1919



The user-friendly SC-1919 Colorimeter is the direct reading colorimeter for complete on-site water analyses. A pre-programmed tests can be run on this compact instrument and each test features automatic wavelength selection. The entire multi-LED optical system is enclosed in the light chamber and optimized for OMEGA test reagent systems. This enables the analyst to simply select the test and put in the sample with the reagent. The microprocessor, which selects the wavelength, also allows the user to load up to 10 tests for analyzing custom reagent systems.

The SC-1919 Colorimeter is a portable microprocessor controlled, direct reading colorimeter. It has a graphical 16 character liquid crystal display for graphical, alphabetical and numerical messages. The operation is controlled with the keypad through menu driven software in response to selections shown on the display.

The test library consists of 100 tests (not all 100 may be available at present) and 10 "User Tests". The tests are precalibrated for the reagent systems. The colorimeter displays the results of these tests directly in units of concentration. The 10 "User Tests" may be used to enter additional calibrations. All of these tests may be arranged in any of 3 sequences. These sequences can be modified a limitless number of times to meet changing testing needs.

The optics feature 4 different colored LEDs. Each LED has a corresponding silicon photodiode with an integrated interference filter. The interference filters select a narrow band of light from the corresponding LED for the colorimetric measurements. The microprocessor automatically selects the correct LED/ photodiode combination for a test. An RS232 serial port on the back of the colorimeter, and optional software, allows the SC-1919 to be interfaced with a personal computer for real time data acquisition and data storage. This port also allows an interface with a RS232 serial printer.

Due to its portability, alternate power sources, and rugged construction, the SC-1919 Colorimeter is ideal for lab and field use.



SC-1919 shown smaller than actual size.

To Order	
Model No.	Description
SC-1919	Colorimeter with 4 sample tubes, AC adapter, and instruction manual, 120V, 60 Hz
SC-1919-LCS	Large carrying case
SC-1919-SCS	Small field carrying case
SC-1912-CD-01	Interface cable/communication program on CD

Comes complete with 4 sample tubes, AC adaptor, battery, and instruction manual.

For 230V add -230V. No additional cost.

Ordering Example: SC-1919, digital colorimeter, SC-1912-CD-01 communication program and cable, SC-1919-SCS small carrying case.

Specifications

- Light Source: LED/filter setup at 430nm, 520nm, 570nm, 630nm
- Detector: Photodiode
- Display: 16x4 LCD, 16 x 4 line graphics display
- Range: 0 to 125%T
- Resolution: 1% FS
- Accuracy: 2% FS
- CE Mark: Yes
- Sample Cell: 25 mm (0.99") round cell, 10 mm (0.39") square cuvette, 16 mm (0.63") COD tubes



Power: 9V battery or AC adapter (included)
Battery Life: 500 tests
Datalogging: RS232, 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: 900 g (2 lb)

The SC-1919 Colorimeter is complemented by easy-to-use reagent systems. Choose the desired test factors from the list below. Several packaging options are available for field use, making your SC-1919 Colorimeter a "field laboratory."

OMEGA uses ACS raw materials to manufacture reagent systems that have high reproducibility. We design our reagent systems to overcome test interference so results are fast and dependable.



SC-1919 shown smaller than actual size.

Model No.	Test Factor	Range (ppm)	Test Method (# of Reagents)	# of Tests	Case Size*
SC-3641	Aluminum	0 to 0.3	Eriochrome Cyanine R (4)	50	L
SC-3643-B	Bromine	0 to 9.0	DPD Tablets (2)	100	S
SC-3643-C	Chlorine	0 to 4.0	DPD Tablets (2)	100	S
SC-3644	Chlorine Dioxide	0 to 8.0	DPD Tablet/Glycine (2)	50	S
SC-3646	Copper	0 to 6.0	Diethyldithiocarbamate (1)	100	S
SC-3640	Copper	0 to 3.5	Bicinchoninic Acid (1)	50	S
SC-3660	Cyanide	0 to 0.35	Pyridine-Barbituric Acid (5)	50	L
SC-3661	Cyanuric Acid	0 to 200	Melamine (1)	50	L
SC-3647	Fluoride	0 to 2.0	SPADNS (2)	50	L
SC-3662	Hydrogen Peroxide	0 to 1.5	DPD Tablets (2)	100	S
SC-3648	Iron	0 to 6.0	Bipyridyl (2)	50	S
SC-3668	Iron	0 to 5.0	1,10 Phenanthroline (2)	50	S
SC-4031	Lead	0 to 5.0	PAR (5)	50	S
SC-3669	Manganese (HR)	0 to 15.0	Periodate (2)	50	S
SC-3699-01	Molybdenum	0 to 50	Thioglycolate (3)	50	L
SC-3649	Nitrate	0 to 3.0	Cadmium Reduction (2)	20	S
SC-3650	Nitrite	0 to 0.8	Diazotization/Coupling (2)	20	S
SC-3688	Oxygen, Dissolved	0 to 11.0	Winkler Colorimetric (3)	200	S
SC-3651	Ozone	0 to 0.4	Indigo Trisulfonate (3)	100	L
SC-3700	pH	5.0 to 9.6	Colorimetric (3)	100	L
SC-3652	Phenols	0 to 6.0	4-Aminoantipyrine (3)	50	L
SC-3655	Phosphate (HR)	0 to 70.0	Molybdovanadate (1)	50	S
SC-3639	Potassium	0.5 to 10.0	Tetraphenylboron (2)	100	S
SC-3664	Silica	0 to 4.0	Heteropoly Blue (4)	100	S
SC-3687	Silica (HR)	0 to 75	Silicomolybdate	50	S
SC-3665	Sulfate	0 to 100	Barium Chloride (1)	100	S
SC-3654	Sulfide	0 to 3.0	Methylene Blue (3)	50	L
SC-3666	Tannin	0 to 10	Tungsto-Molybdophosphoric Acid (2)	50	L

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

Ordering Example: SC-3641, aluminum reagent test kit.