

# Instrumentation

## Model 1200 • Single Test Colorimeter Labs

The 1200 Series of single test, direct reading colorimeters incorporates design advances that enhance reliability, improve accuracy, and simplify the calibration process, all in a portable, hand-held package.



<i>Instrument Type:</i>	Single wavelength, direct-reading colorimeter
<i>Readout:</i>	3½ digit LCD
<i>Photometric Accuracy:</i>	±0.001 Absorbance Unit
<i>Detector:</i>	Silicon Photodiode
<i>Sample Chamber:</i>	Accepts 25mm diameter flat-bottom, tubes with screwcaps (6 included)
<i>Light Source:</i>	LED
<i>Interface:</i>	RS-232 serial interface
<i>Power:</i>	Alkaline 9-volt DC battery, 3.5 mm jack for optional AC adapter
<i>Size (LxWxH):</i>	15 x 8 x 5.5 cm 6 x 3 ¼ x 2½ inches 152 x 83 x 64 mm

### Options:

RS232 Cable • Order Code 1772

AC Adapter 110/220V • Order Code 1754

Accessories/Replacement Tubes • Order Code 0290-6

### AUTO-ZERO

Simply insert the sample blank and press the zero key. No more dialing in the zero

### HINGED LIGHT COVER

Flip-top lid over sample chamber prevents any stray light, especially in the field, and avoids misplacing separate light caps.

### IMPROVED ACCURACY

The microprocessor enables the factory programmed calibrations to optimally match non-linear curves.

### EUROPEAN CE MARK

The 1200 has been independently tested and has earned the European CE Mark of compliance for electromagnetic compatibility and safety.

### WATER RESISTANT DESIGN

Designed with excessive exposure to moisture in mind, the 1200 colorimeters deliver trouble-free performance in the field and lab.

### EPA COMPLIANT

Employing the proper wavelength and the DPD test method, the 1200 Chlorine Colorimeter Kit meets or exceeds EPA design specifications for NPDWR and NPDES chlorine monitoring programs (EPA 330.5).

### A GREAT VALUE!

Complete, economical package! The 1200 Chlorine Colorimeter Kit comes with enough tablets for 100 tests or liquid reagents for 140 tests, six sample vials with screw caps, instruction manual, and sturdy coloring case.

### FIELD & LAB USE

An optional AC adapter is available to save battery life when in the laboratory.

### 0-4 PPM CHLORINE

No need to select a low or high range. The 1200 covers the entire critical chlorine range of 0-4 ppm with a 0.05 sensitivity.

### RS-232 INTERFACE

An RS-232 port is provided to interface with a datalogger or computer. Optional cable available.

### LARGE DISPLAY

The large 3½ digit display presents measurements in absorbance, and indicates low battery warnings.

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Test Factor	Code	Model	Range (ppm)	Detection Limit	Test Method (# of reagents)	# of Tests	Ship Codes
Ammonia Nitrogen	3680-01	DC1200-NH	0–5.0	0.05	Nessler (2)	60	R1
Bromine	3672-01	DC1200-BR	0–7.0	0.05	DPD Tablets (1)	100	NH
Chlorine (Free & Total)	3670-01	DC1200-CL	0–4.0	0.05	DPD Tablets (2)	100	NH
Chlorine (Free & Total)	3670-01-LI	DC1200-CL-LI	0–4.0	0.05	DPD Liquid (3)	140	R1
Chlorine Dioxide	3671-01	DC1200-CLO	0–7.0	0.05	DPD with Glycine Solution (2)	100	NH
Chlorine Dioxide	3671-01-LI	DC1200-CLO-LI	0–7.0	0.05	DPD Liquid	140	NH
Copper	3673-01	DC1200-CO	0–6.0	0.03	Diethyldithiocarbamate (1)	100	NH
Fluoride	3674-01	DC1200-FL	0–2.0	0.028	Alizarin-Zirconyl (2)	100	HF
Iron	3681-01	DC1200-FE	0–4.0	0.25	1,10 Phenanthroline (2)	100	R1
Manganese	3682-01	DC1200-MN	0–0.7	0.02	PAN (3)	100	R2
Molybdenum	3676-01	DC1200-MO	0–30	0.5	Thioglycolate (3)	50	R3
Nitrate Nitrogen	3677-01	DC1200-NA	0–3.0	0.05	Cadmium Reduction (2)	40	R1
Ozone	3678-01	DC1200-OZ	0–0.4	0.04	Indigo Blue (3)	100	NH
Ozone (Without other oxidizers)	3598	DC1200-OZ-DPD	0–3	0.03	DPD Liquid	140	R1
Phosphate	3679-01	DC1200-PLR	0–3.0	0.07	Ascorbic Acid (2)	100	R2
Sulfate	3683-01	DC1200-SU	0–100	1.0	Barium Chloride (1)	100	R1

## Replacement Reagents for 1200 Chlorine

### Liquid Reagents

30 mL (1 oz.)	Code	Ship Code	60 mL (2 oz.)	Code	Ship Code
DPD 1A	P-6740-G	NH	DPD 1A	P-6740-H	NH
DPD 1B	P-6741-G	R2	DPD 1B	P-6741-H	R2
DPD 3	P-6743-G	NH	DPD 3	P-6743-H	NH

### Quantity/Order Code

Tablet	50	100	1000	Ship Code
Chlorine DPD #1 Instrument	6903A-H	6903A-J	6903A-M	NH
Chlorine DPD #3 Instrument	6197A-H	6197A-J	6197A-M	NH
Chlorine DPD #4 Instrument	6906A-H	6906A-J	6906A-M	NH

Easier push-thru packaging!



## DPD Powder Pop® Dispenser

LaMotte now offers the Powder Pop Dispenser – a hand held, single-dose dispenser for 10 mL samples that delivers a precise pre-measured dose of DPD reagent directly to your sample. Each Powder Pop kit includes enough reagent for 400 tests.

### To Order:

Free Chlorine Powder Pop Dispenser • Order Code 3-0032

Total Chlorine Powder Pop Dispenser • Order Code 3-0033