LaMotte 100 YEARS 1919 2019

Aquaculture & Aquarium Testing Products

LaMotte

100 years ago, my grandfather, Frank L. LaMotte, left DuPont to realize his vision for on-site water testing by founding the first US company to design and produce portable water analysis equipment—LaMotte Chemical Products Company in Baltimore, Maryland. Back then, water samples had to be sent to laboratories to be tested. Drinking water, wastewater, industrial water, environmental monitoring, even swimming pool water required laboratory chemists and many days to reveal its state of quality.

By 1925, LaMotte Chemical was supplying the nation chemistry kits in wooden carrying cases with instructions that enabled non-technical people to analyze water on-site with immediate water quality results.

Over the 100 years since that beginning, LaMotte Company has stayed focused on portable water analysis equipment, as well as innovative field-testing products for soil and air analysis, while challenging itself to constantly improve the analyst's experience with faster, simpler, safer, and more precise versions.

Innovation, quality products, and industry-leading technical support are hallmarks of LaMotte Company that have built its reputation worldwide as a trusted source for the latest field water analysis technology.

Today, our ground-breaking Centrifugal Fluidics Technology—"Spin"—is revolutionizing the way water is tested with superior speed and accuracy, eliminating user-error, and precisely measuring up to 10 parameters in 60 seconds.

With the new Spin Touch meter, a growing line of reagent disks, and new companion mobile and cloud software applications—coupled with our Insta-Test line of test strips, a full range of Colorimeters and Octa-Slide Comparator test kits, Pocketesters, and more—LaMotte offers the most comprehensive line of quality portable water test equipment.

In recent years, we have assembled a strong in-house software development team and an impressive reagent systems development group to accelerate our innovations into our next century with an eye on greater speed and precision, and on enhanced value from the automated use of the information generated...data capture, recommendations, remote monitoring, trend analysis, etc.

It has been a privilege for all of us at LaMotte to earn the trust of an ever-widening audience of water analysts and to be ever-challenged by their expectations. From all of us, we thank you for 100 years of trust and look forward to solving your analytical challenges in the next century.

Most sincerely,
David H. LaMotte
President

Table Of Contents

Shipping Codes & Weights

Shipping codes and weights for shipping are included in this catalog for your convenience. The shipping code will refer to one of the following in this chart. Weight will be in pounds and enclosed in [ ].

Shipping Code	Description
NH	Non Hazardous, No Fees
HF	Hazardous Materials, Air & Ground Fees
R1	Small Quantity Hazardous Materials, No Fees
R2, R3, and LQ	Hazardous Materials, Air Fees Only

Factors

Proper control of water quality is an essential part of any successful aquaculture operation. Immediate test results provided by on-site water analysis equipment can confirm a healthy environment or give early warning signals for required treatment.

ALKALINITY

Composed primarily of carbonate (CO_3^{2-}) and bicarbonate (HCO_3^-), alkalinity acts as a stabilizer for pH. Alkalinity, pH, and hardness affect the toxicity of many substances in the water. Alkalinity is often referred to as carbonate hardness in the aquarium industry.

AMMONIA

Ammonia, present in both ionized (NH_4^+) and un-ionized (NH_3) forms, is extremely toxic to fish in the un-ionized form. Even low levels of un-ionized ammonia may affect the fish's central nervous system, reducing its ability to obtain oxygen and lowering its resistance to disease. A product of organic waste, ammonia enters the water directly from the fish, other organic material, and uneaten food. Ammonia levels are pH dependent and can fluctuate throughout the day.

CARBON DIOXIDE

Different species of fish have different susceptibilities to carbon dioxide toxicity. In some species, excess carbon dioxide hinders the ability of the blood to hold oxygen. Produced during respiration and consumed during photosynthesis, carbon dioxide levels fluctuate throughout the day opposite to dissolved oxygen levels. High carbon dioxide levels lower the pH, which in turn affects the ratio of un-ionized to ionized ammonia.

CHLORIDE

Chloride levels can affect fish health in two ways: as the major constituent of salinity or as a treatment to prevent nitrite toxicity. In systems with existing or chronic high nitrite levels, chloride will often be added to prevent the fish from succumbing to nitrite toxicity.

COPPER

Copper, in the form of copper sulfate, is often used in aquaculture systems as an algicide and bactericide; however, high levels can be toxic to fish. High pH and alkalinity levels will complex copper, helping to reduce its toxicity.

DISSOLVED OXYGEN

The Dissolved Oxygen test is one of the most important in aquaculture. Dissolved oxygen levels can affect fish respiration, as well as ammonia and nitrite toxicity. Salinity and temperature are both factors that affect dissolved oxygen levels.

HARDNESS

Total hardness is defined as the concentration of calcium (Ca_2^+) and magnesium (Mg_2^+) in the water. Closely related to alkalinity and pH, sufficient hardness levels can decrease ammonia and pH toxicity. Calcium is also necessary for proper egg and fry development.

NITRITE

An intermediate product between ammonia and nitrate in the nitrification process, nitrite (NO_2^-) is extremely toxic to fish. High levels, combined with low chloride and dissolved oxygen concentrations, may result in methemoglobinemia, better known as brown blood disease.

pH

pH is a measure of acidity/basicity. The pH scale is logarithmic and runs from 0 to 14; 7.0 is considered neutral, with values greater being basic and those lower being acidic. The greatest concern with pH is how it affects the toxicity of other substances, including nitrite and ammonia.

PHOSPHATE (PHOSPHORUS)

Phosphates enter the water supply from many sources, including agricultural runoff and sewage. Phosphorus is an essential nutrient for bone formation and is a primary ingredient in fertilizers, yet excessive levels can promote an overabundance of algae.

TEMPERATURE

Water temperature controls the rate of all chemical reactions and affects fish growth, reproduction, and immunity. Drastic temperature changes can be fatal to fish.

Test Methods

TITRIMETRIC

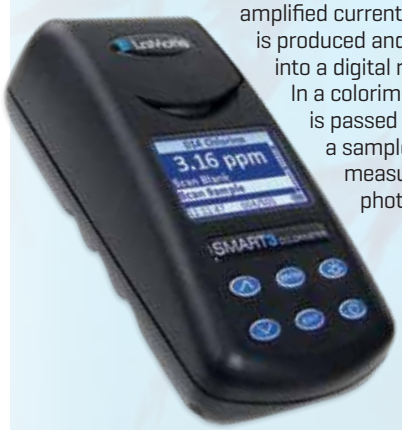
DIRECT READING TITRATORS are 1.0mL microburets calibrated for direct readout in concentration; no counting of drops or calculations.

VISUAL COLORIMETRIC

Octa-Slide 2 and LRC Comparators feature eight color standards with built-in filters that eliminate optical distortion.

ELECTRONIC METER/PROBE

Electronic methods generally use a special electrode for measuring a specific test factor. An electrode is immersed into a sample and an amplified current or voltage is produced and translated into a digital readout. In a colorimeter, light is passed through a sample and measured by a photodetector.



INDIVIDUAL TEST KITS

Test Factor	Code	Water	Method	Range/Sensitivity	# of Tests	# of Rgts.	Ship Code (wt./lbs)	Refill Code
Alkalinity*	4491-DR-01†	Fresh or Salt	Direct Reading Titrator for Total (T) Alkalinity	0-200 ppm as $CaCO_3$ in 4.0 ppm increments	50	2	NH (1)	R-4491-DR-01
Ammonia Nitrogen	3304-02	Fresh or Salt	Octa-Slide 2, Salicylate Method	0.0, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0 ppm NH_3-N	50	3	R2 (1)	R-3304-01
Carbon Dioxide	7297-DR-01†B	Fresh or Salt	Direct Reading Titrator	0-50 ppm CO_2 in 1.0 ppm increments	50	2	R1 (1)	R-7297-DR-01
Chloride	4503-DR-02†B	Fresh	Direct Reading Titrator	0-200 ppm Cl in 4.0 ppm increments	50	4	R1 (1)	R-4503-DR-02
Chlorine	3312-01	Fresh	Octa-Slide 2 for Free & Total Chlorine	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, ppm Cl_2	50	2	NH (1)	R-3312-01
Copper	6616-01B	Fresh or Salt	LRC Comparator for Total Copper	0.0, 0.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5 ppm Cu	50	1	NH (1)	R-6616-01
Dissolved Oxygen	5860-01†	Fresh or Salt	Direct Reading Titrator All liquid system!	0-10 ppm O_2 in 0.2 ppm increments	50	5	R1 (2)	R-5860-01
Hardness*	4824-DR-LT-01	Fresh or Salt	Direct Reading Titrator for Total, Calcium, & Magnesium Hardness	0-200 ppm as $CaCO_3$ in 4.0 ppm increments	50	5	R1 (1)	R-4824-DR-LT-01
	4482-DR-LI-01†R	Fresh or Salt	Direct Reading Titrator for Total Hardness	0-200 ppm as $CaCO_3$ in 4.0 ppm increments	50	3	R1 (1)	R-4482-DR-LI-01
	3609-01	Fresh or Salt	Direct Reading Titrator for Calcium Hardness	0-200 ppm or 0-2,500 ppm	50	3	R1 (1)	R-3609-01
Iron	4447-01	Fresh or Salt	Octa-Slide 2 for Total Iron	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	90	2	R1 (1)	R-4447-01
	7787-01C	Fresh or Salt	LRC Comparator for Total Iron	0.05, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm Fe	30	2	R1 (1)	R-7787-01
Nitrate Nitrogen	3354-01	Fresh or Salt	Octa-Slide 2 All tablet system!	0, 1, 2, 4, 6, 8, 10, 15 ppm NO_3-N	40	2	NH (2)	R-3354-01
	3110-01B	Fresh or Salt	Octa-Slide 2	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm NO_3-N	50	2	R1 (2)	R-3110-01
Nitrite Nitrogen	3352-01†	Fresh or Salt	Octa-Slide 2	0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm NO_2-N	50	3	NH (2)	R-3352-01
Ozone	3249	Fresh or Salt	Digital colorimeter, Indigo Blue method	0-0.4 ppm O_3/0.04 detection limit	100	3	NH (7)	R-3678-01
pH	3353-01†R	Fresh or Salt	Octa-Slide 2	5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0 pH	50	1	R1 (1)	R-3353-01
	2159-02	Salt	LRC Comparator	7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4 pH	100	1	R1 (1)	R-2159-02
Phosphate	3121-02	Fresh or Salt	LRC Comparator	0.0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0 ppm PO_4	50	2	R1 (1)	R-3121-02
Salinity	7459-02B	Salt	Direct Reading Titrator	0-20 ppt Salinity in 0.4 ppt increments	50	2	R1 (1)	R-7459-02
Sulfide	4456-01	Fresh or Salt	LRC Comparator for Total Sulfide	0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 ppm $S^=$	50	3	R1 (1)	R-4456-01

* Often referred to as Carbonate Hardness in the aquarium industry. † Featured test in AQ Series of combination outfits.
† Note: Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.
Prop 65: C: ⚠ **WARNING** Cancer - www.P65Warnings.ca.gov/product; R: ⚠ **WARNING** Reproductive Harm - www.P65Warnings.ca.gov/product;
B: ⚠ **WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

New Insta-Test® Analytic Test Strips for Natural Waters

Ideal for routine monitoring of lakes, streams, ponds, aquaria, and ornamental fish ponds. Strips may be immersed directly into body of water or tank. No test tubes or sampling containers required. Suitable for fresh or salt water analysis. 25 strips per vial.

Strip	Range	Code
5-Way	**Nitrate** 0, 20, 40, 80, 160, 200 ppm	3038-G
	Nitrite 0, 0.5, 1.0, 3.0, 5.0, 10.0 ppm	
	pH 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0	
	Alkalinity 0, 40, 80, 120, 180 ppm	
	Hardness 0, 30, 60, 120, 180 ppm	
Ammonia	0, 0.5, 1.0, 3.0, 6.0 ppm	3023-G
Phosphate	0, 100, 200, 300, 500, 1000, 2500 ppb	3021-G-ENV

Aquaponics Test Kit · Fresh . Brackish . Salt Water

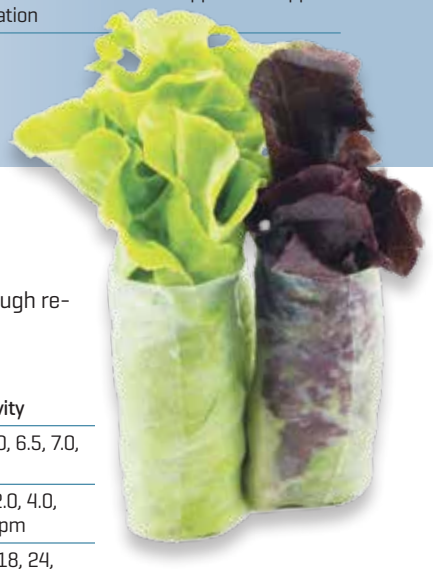
Order Code 3637* Ship Code LQ (9) Reagent Refill Package Order Code R-3637* Ship Code LQ (4)

Aquaponics is growing rapidly as a hobby and as an industry as the farm-to-table trend continues to spread. Designed for small to mid-size systems, this test kit monitors basic water quality for both the aquaculture and hydroponics segments of your system. A detailed, diagrammed instruction manual is provided along with a quick reference lid instruction. Reagents, labware, and accessories are mounted in a foam-lined carrying case. Kit is complete with labware, accessories, and reagents to perform approximately 50 repetitions per test factor. Test chemistries and comparators are compatible with fresh, brackish or salt water systems.

Code 3637

Octa-Slide 2 Comparator	Method	Range/Sensitivity
Ammonia	Salicylate method	0.0, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0 ppm NH_3-N
Nitrite	Diazotization/ coupling	0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm NO_2-N
Nitrate	Zinc reduction	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm NO_3-N
pH	Wide range indicator	5.0, 6.0, 6.5, 7.0,. 7.5, 8.0, 9.0, 10.0 pH
Iron, Ferrous & Ferric	Bipyridyl indicator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe

Direct Reading Titrator	Method	Range/Sensitivity
Alkalinity	Acid/base titration	0-200 ppm as $CaCO_3$, in 4.0 ppm increments
Dissolved Oxygen	Modified Winkler titration	0-10 ppm, in 0.2 ppm



Hydroponics Test Kit

Order Code Code 3561-01* Shipping Code HF (7)
Reagent Refill Package Order Code R-3561* Shipping Code HF (3)

Maintain proper nutrient balances and acheive optimum growing conditions in soil-less cultures. Kit comes with enough reagents for 50 repititions per test factor, complete labware and helpful ***Plant Nutrition Studies*** handbook.

Code 3561-01

Octa-Slide 2 Comparator	Method	Range/Sensitivity
pH	Wide Range Indicator	4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, pH
Nitrate-Nitrogen	Cadmium Reduction	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm
Phosphorus	Ascorbic Acid	5, 6, 9, 12, 15, 18, 24, 30 ppm
Potassium	Turbidity Reading Tube	5, 8, 10, 20, 30, 40, 60 ppm

*Prop 65: ⚠ **WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

Model AQ-2 · Fresh Water

Order Code 3633-05* **Shipping Code R3 (16)** | **Reagent Refill Order Code R-3633-05***

A complete outfit for pond fish culture—ideal for fresh water analysis. Nine critical test factors can be efficiently and accurately determined on-site. Designed with field analysis as a priority; all reagents, components, and accessories are arranged for convenience. Lid label instructions are convenient for quick reference, while a booklet provides detailed instructions. Unit is supplied complete with labware, accessories, sampling bottle, and reagents for 50 tests of each factor.

Code 3633-04

Octa-Slide 2 Comparator	Range
Ammonia Nitrogen	00.0, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0 ppm NH_3^--N
Nitrite Nitrogen	0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm NO_2^--N
pH	5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0 pH

Direct Reading Titrator	Range	Sensitivity
Alkalinity (Total)	0–200 ppm as $CaCO_3$	4.0 ppm
Carbon Dioxide	0–50 ppm CO_2	1.0 ppm
Chloride	0–200 ppm Cl	4.0 ppm
Dissolved Oxygen	0–10 ppm O_2	0.2 ppm
Hardness (Total)	0–200 ppm as $CaCO_3$	4.0 ppm

Temperature	Range	Sensitivity
Armored Thermometer	–5° to 45°C	0.5°C

Model AQ-4 · Salt Water

Order Code 3635-05* **Shipping Code R3 (16)** | **Reagent Refill Order Code R-3635-04***

This equipment monitors the nine parameters most critical for the salt water aquaculturist. Reagents, labware, and accessories are mounted for convenient test selection and portability. Lid label instructions are convenient for quick reference, while a booklet provides detailed instructions. Unit is complete with labware, accessories, sampling bottles, and reagents for 50 tests of each factor.

Octa-Slide 2 Comparator	Range
Ammonia Nitrogen	0.0, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0 ppm NH_3^--N
Nitrate Nitrogen	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm NO_3^--N
Nitrite Nitrogen	0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm NO_2^--N
pH	5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0 pH

Direct Reading Titrator	Range	Sensitivity
Alkalinity (Total)	0–200 ppm as $CaCO_3$	4.0 ppm
Carbon Dioxide	0–50 ppm CO_2	1.0 ppm
Dissolved Oxygen	0–10 ppm O_2	0.2 ppm
Salinity	0–20 ppt Salinity	0.4 ppt

Temperature	Range	Sensitivity
Armored Thermometer	–5° to 45°C	0.5°C

Code 3635-05

*Prop 65: ⚠ **WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

SMART Spectro 2® Spectrophotometer

Order Code 2000-02 Shipping Code NH (17)

Easier to use and more accurate than any meter in its price range. Over 80 pre-programmed tests included, 25 user-calibrations can be entered into the memory and sequences can be customized for frequently run tests.

See Pages 9-10 for Reagent Systems!

Advanced Features

- Wide wavelength range
- Menu-driven display
- High resolution, exceptional accuracy
- Automatic wavelength selection
- Unique optical design system using a 1200 lines/mm grating
- Pre-programmed tests
- Portable

Optional Accessories

- Carrying Case, Order Code 2000-CS, NH (6)
- Battery Pack with Holder (Rechargeable), Order Code 2000-BP, NH (2)
- COD Heater Block (for Total N & P Analysis), Order Code 5-0102, NH (15)
- Bluetooth Mobile Printer, Order Code 5-0066

Includes:

- 6 sample tubes (25mm round)
- 2 sample cell holders (25mm round and COD, 10 mm cuvettes)
- AC adapter and battery charger
- Instruction manual including test procedures and quick start guide

Optional Bluetooth® Printer, Order Code 5-0066

Standard Solutions

Test Factor	Size	Conc.	Code	Shipping
Ammonia-Nitrogen	60 mL	100 ppm	3871-H	NH
Chlorine	60 mL	250 ppm	6973-H	NH
Chlorine	60 mL	1000 ppm	3858-H	NH
Nitrate- Nitrogen	60 mL	1000 ppm	5392-H	NH
Phosphate	60 mL	1000 ppm	5393-H	NH
Sulfate	60 mL	2000 ppm	7120-H	NH
pH	120 mL	4.0 pH	2866-J	NH
pH	120 mL	7.0 pH	2881-J	NH
pH	120 mL	10.0 pH	2896-J	NH

Shipping Codes listed in front of catalog.

Wavelength Range:	350-1000 nm
Wavelength Accuracy:	±2 nm
Wavelength Resolution:	1 nm
Wavelength Bandwidth:	4 nm (max)
Photometric Range:	0-125%T, -0.3-2.500A
Photometric Accuracy:	±0.005A
Photometric Noise:	<0.001A at 0A; <0.002A at 2A
Photometric Drift:	±0.002A/hr @500 nm
Photometric Stray Light:	≤0.4 %T @360 nm
Dispersive Device:	Grating - based system
Optical Mount:	Modified Ebert
Grating:	1200 grooves/mm ruled grating
Display:	5.1 inches diagonal
Interface:	USB, Bluetooth® (mobile printer only Code 5-0066)
Light Source:	Quartz halogen
Bulb Life:	1000 hours minimum
Sample Chambers:	25 mm round cell, 10 mm square cuvette UDV, COD
Detector:	Silicon photodiode
Temperature Range:	0-40°C
Modes:	Conc., %T, ABS
Pre-Programmed Tests:	Yes
Wavelength Selection:	Automatic
User Tests:	Up to 25 can be entered and edited
Datalogging:	USB, datalogs 500 tests
Diagnostics:	Yes
Power:	110/220 volt or battery pack (rechargeable)
Weight:	4.65 kgs (10.3 lbs)
Size (WxDxH):	35 cm x 28 cm x 17 cm

SMART3 Colorimeter®

Order Code 1910 Shipping Code NH (4)

The user-friendly waterproof SMART3 Colorimeter is the direct reading colorimeter for complete on-site water analyses. Over 80 pre-programmed tests can be run on this compact instrument and each test features automatic wavelength selection. The entire multi-LED optical system is embedded in the light chamber and optimized for LaMotte test reagent systems. This enables the analyst to select a wavelength and read a reacted sample. The microprocessor, which selects the wavelength, also allows the user to load up to 25 tests for analyzing custom reagent systems. Features seven user-selected languages. Comes with four sample tubes, USB wall/computer adapter, and instruction manual.

Specifications:	
Light Source:	LED/filter setup at 430 nm, 520 nm, 570 nm, 630 nm
Detector:	Photodiode
Display:	160 x 100 Backlight LCD, 20 x 4 line graphics display
Range:	0-125%T
Resolution:	1% FS
Accuracy:	2% FS
CE Mark:	Yes
Sample Cell:	25 mm round cell, 10 mm square cuvette, 16mm COD tubes
Power:	USB computer/wall adapter or lithium ion rechargeable battery
Battery Life:	Charge Life: Approx. 380 tests with backlight on to 1000 tests with backlight off. (Signal averaging diabled). Approx. 500 charges.
Datalogging:	Up to 500 data points; USB transfer, time and date stamped
Calibration:	Factory set-user adjustable
Keypad:	6-button mechanical
Size:	7.5 x 3.5 x 2.5 inches
Weight:	15 ounces

See Pages 9-10 for Reagent Systems!

Optional Accessories

- Small Field Carrying Case · Order Code 1910-GCS150 · NH (7)
- Large Carrying Case · Order Code 1910-GCS440 · NH (9)
- Car Charger · Order Code 5-0132 · NH (1)

Replacement Parts

- USB Cable · Order Code 1720 · NH (1)
- USB Wall Adapter · Order Code 1721 · NH (1)
- COD/UDV Adapter · Order Code 1724 · NH (1)

COD Heater Block

COD Heater Block, 120V and 230V, 12-Tube Capacity

Order Code 5-0102 (120V) Shipping Code NH (15)

Order Code 5-0102-EX2 (230V) Shipping Code NH (15)

This COD heater block features digital microprocessor control, programmable time and temperature settings, and a dual LED display to monitor both temperature and timer. Perfect for COD, Total Phosphorus, and Total Nitrogen testing PLUS other tests requiring digestion.

Specifications:	
Temperature:	30-200°C
Timer:	0-999 minutes
Vial Capacity:	12 (16 mm tubes)
Stability:	±0.1°C@100°C
Weight:	3.6 kg
Dimensions:	310 x 250 x 80 mm (LxWxH)
CE Mark:	Yes
Oven Temp. Cutoff:	212°C

COLORIMETER REAGENT SYSTEMS

Test Factor	Test Method (# of reagents)	SMART Spectro 2 Range ppm	SMART3 Colorimeter Range ppm	# of Tests	Order Code	Shipping/ Prop 65
Alkalinity UDV †	Unit Dose Vial (1)	15-200	10-250	100	4318-J	NH
Aluminum	Eriochrome Cyanine R (4)	0.01-0.30	0.01-0.30	50	3641-01-SC	NH/R
Ammonia Nitrogen (Fresh & Salt Water)	Salicylate (3)	0.02-1.00/0.10-1.00	0.05-1.00/0.10-1.00	25	3659-01-SC	R2/R
Ammonia Nitrogen HR	Nesslerization (2)	0.05-4.00	0.05-4.00	50	3642-SC	R1/R
Barium	Barium Chloride (1)	----	5-200	50	3638-SC	NH/R
Benzotriazole	UV Photolysis (4)	----	0.5-30.0	50	4047-01	R1
Biquinide	Colorimetric (1)	5-70	2-70	50	4044	NH
Borate UDV †	Unit Dose Vial (1)	----	5-80	100	4322-J	NH
Boron	Azomethine-H (2)	0.05-0.80	0.05-0.80	50	4868-01	NH
Bromine LR	DPD Tablets (2)	0.04-9.00	0.10-9.00	100	3643-SC	NH
Bromine UDV †	Unit Dose Vial DPD (1)	0.3-22.0	0.1-22.0	100	4311-J	NH
Cadmium	PAN (4)	0.02-1.00	0.02-1.00	50	4017-01	R1/R
Carbohydrazide	Iron Reduction (3)	0.005-0.900	0.04-0.90	100	4857	R1
Chloride TesTab	Argentometric (1)	0.5-30.0	0.4-30.0	50	3693-SC	NH
Chlorine (Free & Total)	DPD Tablets (3)	0.02-4.00	0.03-4.00	100	3643-SC	NH
Chlorine - Free UDV †	Unit Dose Vial (1)	0.10-10.00	0.10-10.00	100	4311-J	NH
Chlorine - Liquid DPD	DPD (3)	0.30-4.00	0.03-4.00	144	4859	R1
Chlorine - Total UDV †	Unit Dose Vial (1)	0.1-10.0	0.10-10.00	100	4312-J	NH
Chlorine Dioxide	DPD tablet/Glycine (2)	0.04-7.00	0.06-8.00	100	3644-SC	NH
Chromium (Hexavalent)	Diphenylcarbohydrazide (1)	0.01-1.00	0.01-1.00	100	3645-SC	HA
Chromium (Total, Hex & Trivalent)	Diphenylcarbohydrazide (5)	0.03-1.00	0.01-1.00	100	3698-SC	HF
Cobalt	PAN (3)	0.02-2.00	0.04-2.00	50	4851-01	HF/R
COD LR with Mercury *	Digestion (1)	5-150 mg/L	5-150 mg/L	25	0075-SC	R1
COD LR without Mercury *	Digestion (1)	5-150 mg/L	5-150 mg/L	25	0072-SC	R1
COD SR with Mercury*	Digestion (1)	50-1,500 mg/L	50-1,500 mg/L	25	0076-SC	R1
COD SR without Mercury*	Digestion (1)	50-1,500 mg/L	50-1,500 mg/L	25	0073-SC	R1
COD HR with Mercury*	Digestion (1)	500-15,000 mg/L	500-15,000 mg/L	25	0077-SC	R1
COD HR without Mercury *	Digestion (1)	500-15,000 mg/L	500-15,000 mg/L	25	0074-SC	R1/R
Color	Platinum Cobalt (0)	15-1,000 mg/L	20-1,000 Cu	∞	NA	NH
Copper BCA - LR	Bicinchoninic Acid (1)	0.05-3.50	0.04-3.50	50	3640-SC	NH
Copper - Cuprizone	Cuprizone (2)	0.01-2.00	0.03-2.00	50	4023	R1
Copper DDC	Diethyldithiocarbamate (1)	0.05-6.00	0.10-6.00	100	3646-SC	NH/B
Copper UDV †	Unit Dose Vial, Bicinchoninic acid (1)	0.20-4.00	0.1-4.0	100	4314-J	NH
Cyanide	Pyridine-Barbituric Acid (5)	0.05-0.50	0.03-0.35	50	3660-01-SC	R1
Cyanuric Acid	Melamine (1)	16-200	10-200	40	3661-01-SC	NH
Cyanuric Acid UDV †	Unit Dose Vial, Melamine (1)	5-150	10-150	100	4313-J	NH
DEHA	Iron Reduction (3)	0.005-0.700	0.01-0.70	100	4857	R1
Dissolved Oxygen (DO)	Winkler Colorimetric (3)	0.3-12.0	0.6-11.0	200	3688-SC	R1
Erythorbic Acid	Iron Reduction (3)	0.02-3.00	0.02-3.00	100	4857	R1
Fluoride	SPADNS (2)	0.1-2.0	0.1-2.0	50	3647-02-SC	R1
Hardness (Toal) UDV †	Unit Dose Vial (1)	10-500	10-500	100	4309-J	NH
Hydrazine	P-dimethylaminobenzalde-hyde (2)	0.010-0.750	0.01-0.75	50	3656-01-SC	NH

* Requires COD Heater Block Code 5-0087 (sold separetely)
* † Requires Accessory Package Code 1961 or Code 1962 (sold separetely)

Prop 65: C: ⚠ **WARNING** Cancer - www.P65Warnings.ca.gov/product; R: ⚠ **WARNING** Reproductive Harm - www.P65Warnings.ca.gov/product; B: ⚠ **WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

COLORIMETER REAGENT SYSTEMS

Test Factor	Test Method (# of reagents)	SMART Spectro 2 Range ppm	SMART3 Colorimeter Range ppm	# of Tests	Order Code	Shipping/ Prop 65
Hydrogen Peroxide LR	DPD (2)	0.02-1.50	0.02-1.50	100	3662-SC	NH
Hydrogen Peroxide HR	DPD (2)	1-60	1-60	100	4045-01	NH
Hydrogen Peroxide Shock	DPD (2)	4-225	10-225	100	4045-01	R2
Hydroquinone	Iron Reduction (3)	0.01-1.80	0.01-2.00	100	4857	R1
Iodine	DPD Tablets (2)	0.08-14.00	0.2-14.0	100	3643-SC	NH
Iron	Bipyridyl (2)	0.06-6.00	0.10-6.00	50	3648-SC	R1
Iron UDV †	Unit Dose Vial Bipyridyl (1)	0.07-10.00	0.1-10.0	100	4315-J	NH
Iron - Phenanthroline	1,10 Phenanthroline (2)	0.04-4.50	0.1-5.0	50	3668-SC	R1
Lead	PAR (5)	0.1-5.0	0.1-5.0	50	4031-01	R1/C
Manganese LR	PAN (3)	0.02-0.70	0.01-0.70	50	3658-01-SC	HF/R
Manganese HR	Periodate (2)	0.3-15.0	0.3-15.0	50	3669-SC	R1
Methylethylketoxime	Iron Reduction (3)	0.02-3.00	0.01-3.00	100	4857	R1
Molybdenum HR	Thioglycolate (3)	0.2-15.0	0.6-50.0	50	3699-03-SC	R1
Nickel	Dimethylglyoxime (6)	0.06-8.00	0.15-8.00	50	3663-01-SC	HF/R
Nitrate Nitrogen LR	Cadmium Reduction (2)	0.05-3.00	0.10-3.00	20	3649-SC	R1/B
Nitrate TesTabs	Zinc Reduction (1)	3-60	5-60	50	3689-SC	NH
Nitrate UDV †	Unit Dose Vial Zinc Reduction	----	2-80	50	4321-J	NH
Nitrite Nitrogen LR	Diazotization (2)	0.020-0.800	0.02-0.80	20	3650-SC	NH
Nitrogen, Total*	Chromotropic Acid/ Digestion (6)	2-25 mg/L	3-25 mg/L	25	4026-01	R1
Oxygen Scavengers	Iron Reduction	various	various	100	4857	R1
Ozone	DPD (3)	----	0.03-3.00	100	4881-01	NH
Ozone LR	Indigo Trisulfonate (3)	0.02-0.40	0.01-0.40	100	3651-SC	NH
Ozone HR	Indigo Trisulfonate (3)	0.05-1.50	0.05-2.50	20	3651-SC	NH
pH CPR	Chlorophenyl Red (1)	pH 5.0-7.0	pH 5.0-6.8	100	3700-01-SC	NH
pH PR	Phenol Red (1)	pH 6.6-8.4	pH 6.6-8.4	100	3700-01-SC	NH
pH TB	Thymol Blue (1)	pH 8.0-9.5	pH 8.0-9.5	100	3700-01-SC	NH
Phenol	Aminoantipyrine (3)	0.05-6.00	0.05-6.00	50	3652-01-SC	NH
Phosphate LR	Ascorbic Acid Reduction (2)	0.04-3.00	0.05-3.00	50	3653-SC	R2/C
Phosphate HR	Vanodomolybdovanadate Acid (1)	1.0-70.0	0.5-70.0	50	3655-SC	R1
Phosphorus, ppb	Ascorbic Acid/Digestion (5)	----	50-3000	50	3653-SC	R2/C
Phosphorus, Total - LR*	Ascorbic Acid/Digestion (5)	0.07-3.50 g/L	0.50-3.50 mg/L	25	4024-01	R1
Phosphorus, Total - HR*	Molybdovanadate/ Digestion (5)	5.0-100.0 mg/L	5-100mg/L	25	4025-01	R1
Potassium	Tetraphenylboron (2)	0.5-10.0	0.8-10.0	100	3639-SC	R1
Silica LR	Heteropoly Blue (4)	0.03-2.50	0.05-4.00	100	3664-SC	R1
Silica HR	Silicomolybdate (3)	1-50	1-75	50	3687-SC	R1
Sulfate HR	Barium Chloride (1)	5-100	3-100	100	3665-SC	R1
Sulfide LR	Methylene Blue (3)	0.02-1.00	0.06-1.50	50	3654-02-SC	R1
Surfactants	Bromthymol Blue (3)	0.5-8.0	0.5-8.0	100	4876-01	HF/B
Tannin	Tungsto-Molybdophosphoric Acid (2)	0.2-10.0	0.1-10.0	50	3666-01-SC	R1
Tolyltriazole	UV Photolysis (4)	----	0.5-30.0	50	4047-01	R1
Turbidity	Absorptimetric (0)	2-400 FTU	3-400 FTU	∞	NA	NH
Zinc LR	Zincon (6)	0.03-3.00	0.05-3.00	50	3667-01-SC	HF/B

*Requires COD Heater Block & COD Adapter Code 5-0087 (sold separetely) †Requires UDV Adapter Code 5-0086 and Accessory Package Code 1961 or Code 1962 (sold separetely) Prop 65: C: ⚠ WARNING Cancer - www.P65Warnings.ca.gov/product, R: ⚠ WARNING Reproductive Harm - www.P65Warnings.ca.gov/product, B: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

Aquaculture Lab - Model SCL-08 Order Code 1983-04 Shipping Code LQ (34)


Code 1983-04

The Model SCL-08 Aquaculture Lab provides precise results which reflect actual water quality conditions on-site. The battery-powered SMART3® Colorimeter instantly analyzes color reactions within test samples and provides readings directly in ppm (parts per million). No visual color comparison is required. Simplified procedures are utilized for each test. Titration tests performed with LaMotte's Direct Reading Titrator provide results directly in ppm.

SMART® Colorimeter Tests

	Range†	# of Tests
Ammonia	.05–1.0/0.1–1.0 ppm	50
Copper	0.1–6.0 ppm	100
Nitrate Nitrogen	0.1–3.0 ppm	20
Nitrite Nitrogen	0.02–0.8 ppm	20
Phosphate	0.05–3.0 ppm	50

Direct Reading Titrator Tests

	Range†	Sensitivity	# of Tests
Alkalinity	0–200 ppm	4.0 ppm	50
Carbon Dioxide	0–50 ppm	1.0 ppm	50
Chloride/Salinity	0–200 ppm	4.0 ppm	50
Dissolved Oxygen	0–10 ppm	0.2 ppm	50
Hardness (Total, Ca, Mg)	0–200 ppm	4.0 ppm	50

pH Meter	Range†	Sensitivity	# of Tests
Model pH5	pH 0–14	0.01 pH	—

† Range may be extended by dilution.

*Prop 65: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

pHPLUS Direct 2 Order Code 5-1936-01 Shipping Code NH (3)

Laboratory precision in a water-resistant design! Read pH, mV, temperature, and concentration with accuracy–ISE's read concentration in ppm. Easy-to-use in any test mode, the pHPLUS Direct hold 20 test results.

Features

- 1 BNC, Temp. Probe, Power, Ref.
- 4 AAA Alkaline or Line for 110 or 220V

Optional Accessories

- pH Probe, Gel-filled · Order Code 1904
- Temperature Probe · Order Code 1909
- Adapter, 110V · Order Code 1726-110

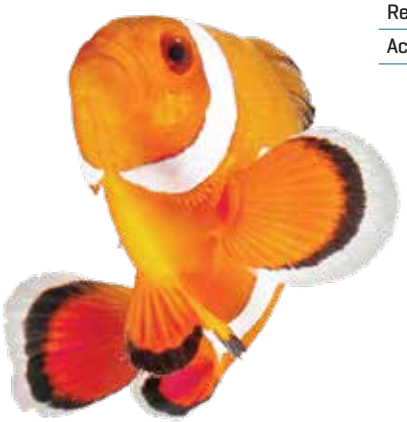
Code 5-1936-01

pH	
Range:	0.00-14.00
Resolution:	0.01
Accuracy:	±0.01
Calibration:	2 or 3 point auto.
Electrode:	Epoxy, Ag/AgCl

Temperature	
Range:	0.0 to 100.0°C
Resolution:	0.1°C
Accuracy:	±1°C

Concentration	
Range:	0.0 to 100
Resolution:	±1 LSD
Accuracy:	±0.5% or ±1 LSD

mV	
Range:	±500mV
Accuracy:	±0.1 mV
Resolution:	10 mV



Standardized pH Buffer Solutions

For use in calibration of pH meters. Available in 120 mL (-J) and 500 mL (-L) sizes.

pH Value	Code
4.00	2866
7.00	2881
10.00	2896

Economical Field Meters

An outstanding line of instruments for measuring pH, Conductivity, and TDS. These hand-held meters incorporate advanced microprocessor technology with attractive, compact design, resulting in a hi-tech performance and a user-friendly operation, at an affordable price. Now includes rubber boot with pop-up stand!

Model	pH 5 Plus (pH)	pH 5 Plus (Temp)	CON 6 Plus (Conductivity)	TDS 6 Plus (TDS)	CON 6 Plus & TDS 6 Plus (Temp)	DO Meter
Order Code:	w/out case 5-0034-01 with case 5-0035-01		w/out Case 5-0038-02 with Case 5-0039-02	w/out Case 5-0036-02 with Case 5-0037-02	(Temperature probe included)	5-0107-01 Galvanic Probe
Range:	0.00 to 14.00 pH	0.0 to 100.0°C	0.0 to 20.00, 200, 2,000.0 µS 0 to 20.00, 200.0 mS	0.0 to 10.00, 100.0, 1000 ppm 1.0 to 10.00, 100.0, 200 ppt	-10.0 to 110.0°C	0.00 to 20.00 mg/L (ppm), -5.0 to 105.0°C, 0.00 to 200.0% sat.
Resolution:	0.01 pH	0.1°C	0.01, 0.1, 1 µS 0.01, 0.1 mS/cm	0.01, 0.1, 1 ppm 0.01, 0.1, 1 ppt	0.1°C	0.01 mg/L (ppm), 0.1%, 0.1°C
Accuracy:	±0.01 pH	±0.5°C	±1% full scale	±1% full scale	±0.5°C	±1.5% FS, ±1.5% FS, ±0.5°F
Calibration:	Auto Buffer Recognition Up to 3 Buffer Values (USA, NIST, Pb)	0.1°C increments	One point per range (five points if each range is calibrated)		Offset 0.1°C increments	Salinity and pressure correction, auto or manual
Temperature Compensation:	Automatic or Manual from 0 to 100°C		Automatic or Manual from 0.0 to 50.0°C			Automatic or Manual from 0.0 to 50.0°C
Power:	Four AAA alkaline batteries (included) 500 hours		Four AA alkaline batteries (included) >60 hours continuous use			Four 1.5 AAAA batteries (included) >700 hours continuous use
Display:	Single Custom LCD		Single Custom LCD			Single Custom LCD
Auto shut-off:	After 17 minutes		After 17 minutes			Selectable
Operating Temperature:	32 to 122°F; 0 to 50°C		32 to 122°F; 0 to 50°C			0 to 50°C
Shipping:	NH (3)		NH (3)			NH (3)
Size:	2.8" W x 5.8" H x 1.4" D		2.8" W x 5.8" H x 1.4" D			2.8" W x 5.8" H x 1.4" D

Dissolved Oxygen (DO) TRACER

Dissolved Oxygen Tracer, Order Code 1761 **Shipping Code NH (1)**

DO Sensor Module, Order Code 1762 **Shipping Code NH (1)**

- Oxygen level displayed as % Saturation from 0 to 200.0% or Concentration from 0 to 20.00 ppm (mg/L)
- Adjustable Altitude Compensation (0-20,000 ft. in 1,000 ft. increments)
- Adjustable Salinity Compensation from 0 to 50 ppt
- Memory stores up to 25 data sets with DO and Temperature reading
- Self-calibration on power up; Data Hold, Auto power off, Low battery indicator
- Optional 3 ft (1m) or 16 ft. (5m) extension cable
- Complete with DO electrode, protective sensor cap, spare membrane cap, electrolyte, four 1.5V SR44W batteries, and 48" (1.2m) neckstrap

Description	Range	Resolution	Accuracy
DO (sat. mode)	0 to 200.0%	0.1%	±2% FS
DO (conc. mode)	0 to 20.00 ppm (mg/L)	0.01 ppm (mg/L)	0.4 ppm (mg/L)
Temp.	32 to 122°F (0 to 50°C) 0.1°F/°C		±1.8°F (1°C)
Dimensions	1.4 x 6.9 x 1.6" (36 x 176 x 41mm)		

Optional Accessories

Description	Order Code	Ship Code
DO Membrane Kit (6 screw-on membranes and solution)	1761M	NH (1)
Weighted Stand w/Sample Cups (5)	1746	NH (1)
Sample Cups w/caps (24)	1745	NH (1)
DO Extension Cable (1 meters)	1763	NH (1)
DO Extension Cable (5 meters)	1764	NH(1)

pH TRACER

Order Code 1741 **Shipping Code NH (1)**

- Read pH from 0.00-14.00 pH to 0.01 pH resolution
- Supplied with 4, 7, 10 pH buffer tablets
- Automatic self calibration to 1, 2, or 3 points
- Extra bold display includes analog bar graph feature
- Memory can store up to 15 readings
- Chlorine and pH modes also display sample temperature
- Unit identifies which probe is in use and retains calibrations
- Automatic shut-off and Low Battery indicator; uses four LR-44 batteries
- Optional total chlorine probe makes unit a true ISE. TCl tablets required

Optional Accessories

Order Code	Description
1733	pH Probe; Range: 0-14.00/±0.01 pH
1734	ORP probe; Range: ±999mV/±4mV
1732	Cl2 probe; Range: 0-10.00/±10% of reading
1746	Optional weighted stand & 5 sample cups
7044A-J	TCl tablets, 100 pack
1745	Sample cups, 24 pack

SAL/EC/TDS Tracer Order Code 1749

This Tracer PockeTester™ offers direct reading of Conductivity, Total Dissolved Solids, and Salinity with one electrode. Simply press the MODE key to select any factor.

pH/TDS/SALT Tracer Order Code 1766

This Tracer PockeTester™ offers direct reading of pH, Conductivity, Total Dissolved Solids, and Salinity with one electrode.

Model	EC/TDS/Salinity Tracer			pH/TDS/SALT Tracer		
	Range	Resolution	Accuracy	Range	Resolution	Accuracy
Order Code:	1749			1766		
Conductivity:	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS	0.1 µS/cm, 1 µS/cm, 0.01 mS/cm	±2%	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS	0.1 µS	±1%
TDS:	0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt (g/L)	0.1 ppm (mg/L), 1 ppm (mg/L), 0.01 ppt (g/L)	±2%	0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt	0.1 ppm (mg/L)	±2%
Salinity:	0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt	0.1 ppm, 1 ppm, 0.01 ppt	±2%	0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt	0.1 ppm (mg/L)	±2%
pH:	—	—	—	0.00 to 14.11 pH	0.04 pH	±0.01 pH
Temperature:	± 1°C (1.8°F)			32° to 149°F (0 to 65°C)	0.1°F/°C	±1.8°F/°C
Power:	Four 3V CR-2032 Batteries			Four 3V CR-2032 Batteries		
Special Features:	Auto Shutoff after 10 minutes, Low BAT indicator, Digital and Analog Display, Hold 15 tagged readings			Auto Shutoff after 10 minutes, Low BAT indicator, Digital and Analog Display, Hold 25 tagged readings		
Special Functions:	Calibration Function, ATC			Self Calibration		
Replacement Electrode:	1765			1755		

2020we Portable Turbidity Meter

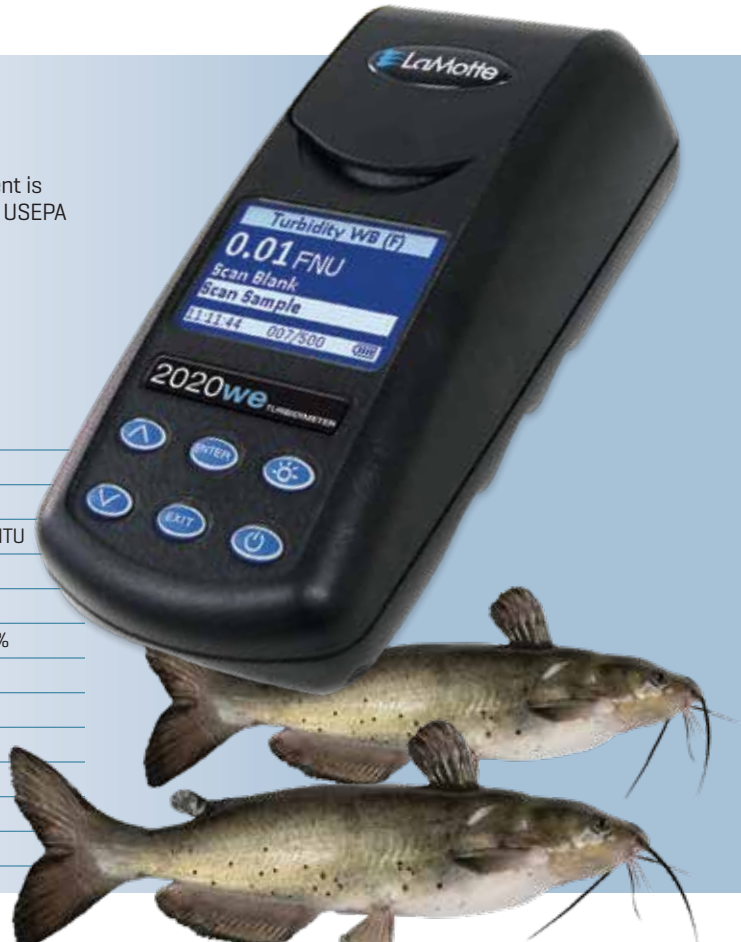
Order Code I970-EPA Shipping Code NH (6)

Perfect for field and laboratory applications, this compact and easy-to-use instrument is an exceptional value. This meter meets or exceeds EPA turbidity testing requirement USEPA 180.1 standard and is waterproof to IP67.

Features

- Waterproof to IP67
- Lithium rechargeable battery
- USB port
- 7 languages
- Backlit display
- Waterproof carrying case

Specifications:	
Instrument Type:	Nephelometric turbidity; calibrated in NTUs
Range:	0-4000 NTU
Resolution:	0.01 from 0-10.99 NTU, 0.1 from 11-109.9 NTU, 1 from 110-4000 NTU
Response Time:	<2 seconds
Languages:	English, French, Spanish, Japanese, Italian, Portugese, Chinese
Accuracy:	From 0-2.5 NTU/±0.05 NTU; From 2.5-100 NTU/±2%; Above 100/±3%
Display:	6-line with backlit display; 160 x 100 backlit LCD; 20 x 6 line graphics
Light Source:	Tungsten (EPA), complies with EPA 180.1 standard
Sample Chamber:	Accepts 25 mm diameter flat-bottom, screw-capped, sample tubes
Serial Interface:	USB
Power:	USB computer/wall adapter or lithium ion rechargeable battery, 3.7V
Size (LxWxH):	7.5 x 3.5 x 2.5 inches



Horizontal Water Sampler

Order Code 1087 **Shipping Code NH (5)**

Collect water samples quickly and easily! This newly designed horizontal water sampler allows water to be sampled at specific depths. A 20 meter calibrated line, marked at one meter intervals, is included. The clear acrylic tube allows a visual inspection of the sample prior to dispensing and holds approximately 1,200 mL of sample. Send the weighted messenger down the line to trip the closing mechanism at the desired depth. A sampling port allows dispensing of small aliquots of sample, or open one chamber end cap to dispense larger aliquots.

Code 1087

Hydrometer

Order Code 3-0011 **Shipping Code NH (1)**

Precision specific gravity hydrometer for salinity measurement. Glass with scale graduated in divisions of 0.0005 from 1.000° to 1.070° specific gravity. Each unit checked against NIST certified standard. Includes table to convert reading to salinity in parts per thousand (ppt). Length 13 inches (330 mm), scale length 5 inches (140 mm). Use with Hydrometer Jar (Code 3-0024) and Armored Thermometer (Code 1066).

Hydrometer Jar

Order Code 3-0024 **Shipping Code NH (1)**

Precision molded clear plastic (PMP) 500 mL cylinder with broad base for extra stability and easy-to-read, molded 1 mL graduations. Clear, durable polymethyl-pentene cylinder is never slippery, even when wet.

Secchi Disk

Order Code 0171-CL **Shipping Code NH (7)**

Order Code 0171 (Disk Only) **Shipping Code NH (3)**

To determine water turbidity in the aquatic environment. A weighted black and white quadrant plastic disk (20 cm diameter) is lowered into the water until it disappears. Calibrated line is marked every half meter up to 20 meters. Braided line.

Armored Thermometer

Model 545 · Order Code 1066

Shipping Code NH (1)

A precision thermometer furnished in a protective plastic jacket with window opening. Engraved graduations on white tubing center increases readability which covers the range of –5° to 45°C in 0.5° increments.

Plankton Net

Order Code 1063 **Shipping Code NH (2)**
15" x 5" mouth, (38 x 13 cm) diameter

Order Code 0023 **Shipping Code NH (4)**
38" x 12" mouth, (97 x 31 cm) diameter

A cone-shaped net of 10 mesh/153 micron nylon cloth. Minute plankton are collected and can be observed in the clear 50 mL conical graduated tube at the end of the net. Two tubes are provided. The net mouth is braced by a sturdy brass ring and harness.

Bottom Sampling Dredge

Order Code 1097 **Shipping Code NH (5)**

Stainless steel sampler designed for use on soft bottoms (sand or silt). A simple trigger holds the sampler open while lowering to cover uniform area. Scissor design closes sampler, retrieving a volume of sediment to the surface.

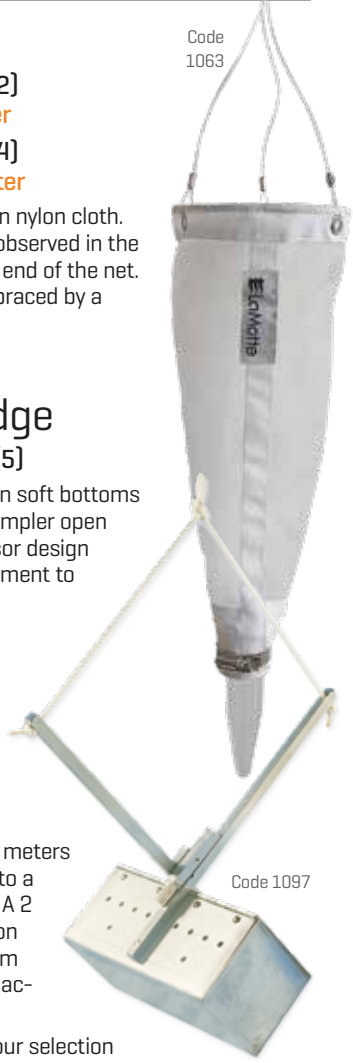
Sounding Lead & Calibrated Line

Order Code 1064-G

Shipping Code NH (4)

This heavy nylon line is marked from 0–20 meters and has a spring clip for easy attachment to a Secchi Disk, plankton net or a lead weight. A 2 lb. (0.9Kg) lead weight is provided. The nylon line wraps conveniently around an ethafoam block which also acts as a float to prevent accidental loss.

Visit our website at www.lamotte.com for our selection of water samplers.

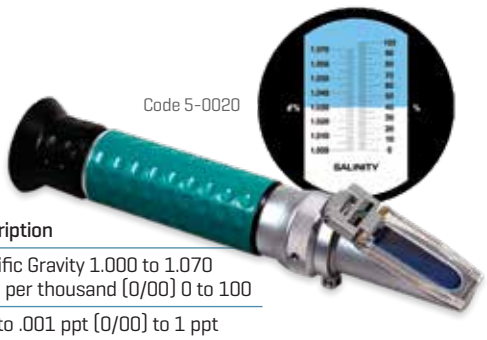


Code 1063

Code 1097

Salinity Refractometer Order Code 5-0020 Shipping Code NH (2)

Handheld salinity refractometer with dual specific gravity and part per thousand (0/00) scale. Range 1.000-1.070 specific gravity and 0-100 0/00 salinity. Resolution 0.0001 and 1.0 0/00 respectively. Large, magnified scale provides a sharp contrast for easier reading. Unit features ATC (Automatic Temperature Compensation) over the range of 10°-30°C. Rubber grip insulates the unit against hand heat for the most accurate results. Hooded eyepiece houses and protects the focusable lens and prevents stray light from entering the eyepiece during use. Non-roll stand protects against damage to the unit when set down in between readings. Calibration ring is used to zero or calibrate the unit, simplifying the procedure. Unit comes with black nylon zip case, transfer pipet, and screwdriver.



Code 5-0020

Specifications:	Description
Scales:	Specific Gravity 1.000 to 1.070 Parts per thousand (0/00) 0 to 100
Resolution:	S. G. to .001 ppt (0/00) to 1 ppt
Temp. Comp.:	Automatic between 10° and 30°C

CATALOGS

Soil Testing Products

Order Code 1652

Field and laboratory test equipment for measurement of soil nutrients and soil pH. For agricultural soils, gardens, and hydroculture.

Environmental Science Products

Order Code 1590

"Hands-on" test equipment for air, soil, and water chemistry students in elementary, secondary, vocational, outdoor, and college science programs.

Water Conditioning Testing Products

Order Code 1650

Softener sales demonstration outfits and other specialized test equipment for the point-of-use water treatment industry.

Pool & Spa Water Testing Products

Order Code 1634

A complete line of test kits, combination outfits, and meters for pool service professionals, public pool or spa operators, and private pool or spa owners.

Water Quality Testing Products

Order Code 1653

A complete guide to instruments, apparatus, kits, and reagents. This catalog features the best available test equipment for testing a variety of waters. LaMotte individual and combination kits, and instrumentation are featured.

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