



Aquaculture & Aquarium TESTING PRODUCTS



SINCE 1919, LaMotte's mission has been to help people solve analytical challenges by providing innovative solutions through knowledgeable technical guidance, prompt service, and quality products designed for the analysis of water and soil. Today, we produce the broadest line of portable test equipment and continue our focus on your specific needs by offering improved products and strong technical support.

Please visit our website at www.lamotte.com where you can see all of our product catalogs, MSDS, new product information, technical tips, and instructions.

We believe the emphasis we place on Technical Support and Customer Service helps distinguish LaMotte. Call our Technical Support staff's toll-free number for guidance on product selection or assistance with any questions regarding purchased LaMotte products.

If for any reason you are not satisfied with our products or service, you may return the product within 30-days for a full refund; please call for return authorization. We know that when you buy analysis products from us, you purchase solutions to your challenge, not simply hardware.

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|----|-----|----|----|------|----------|
| | | | | | |

David LaMotte President

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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 LO | Hazardous Materials. Air Fees Only |



FACTORS & TEST METHODS

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.

nН

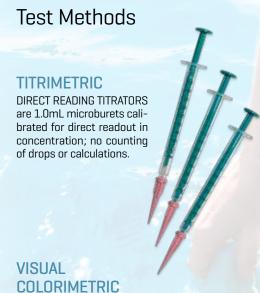
pH is a measure of acidity/basicity. The pH scale is logarithmic and runs from 0 to 14; 7.0 is considered neutral, with values greater being basic and those lower being acidic. The greatest concern with pH is how it affects the toxicity of other substances, including nitrite and ammonia.

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.

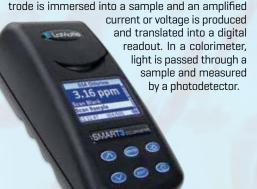


Octa-Slide 2 and LRC Comparators feature eight color standards with built-in filters that eliminate optical distortion.



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



INDIVIDUAL TEST KITS

| | | | Toronto. | The second second | | | |
|---------------------|----------------|---------------|--|---|---------------|---------------|------------------------|
| Test Factor | Code | Water | Method | Range/Sensitivity | # of Tests | # of Rgts. | Ship Code (wt./lbs) |
| 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) |
| Ammonia Nitrogen | 3304-01 | 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) |
| Carbon Dioxide | 7297-DR-01† | Fresh or Salt | Direct Reading Titrator | 0-50 ppm CO ₂ in 1.0 ppm increments | 50 | 2 | R1 (1) |
| Chloride | 4503-DR-02† | Fresh | Direct Reading Titrator | 0-200 ppm Cl in 4.0 ppm increments | 50 | 4 | R1 (1) |
| 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) |
| Copper | 6616-01 | 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) |
| Dissolved Oxygen | 5860-01† | Fresh or Salt | Direct Reading Titrator All liquid system! | 0-10 ppm 0_2 in 0.2 ppm increments | 50 | 5 | R1 (2) |
| Hardness* | 4824-DR-LT-01 | Fresh or Salt | Direct Reading Titrator for Total, Calcium, & Magnesium Hardness | 0-200 ppm as ${\rm CaCO_3}$ in 4.0 ppm increments | 50 | 5 | R1 (1) |
| | 4482-DR-LI-01† | Fresh or Salt | Direct Reading Titrator for Total Hardness | 0-200 ppm as CaCO ₃ in 4.0 ppm increments | 50 | 3 | R1 (1) |
| | 3609-01 | Fresh or Salt | Direct Reading Titrator for Calcium Hardness | 0-200 ppm or 0-2,500 ppm | 50 | 3 | R1 (1) |
| 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) |
| | 7787-01 | 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) |
| 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) |
| | 3110-01 | 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) |
| 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) |
| Ozone | 3678-01 | Fresh or Salt | Digital colorimeter, Indigo Blue method | 0-0.4 ppm $0_3/0.04$ detection limit | 100 | 3 | NH (7) |
| рН | 3353-01† | 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) |
| | 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) |
| 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) |
| Salinity | 7459-02 | Salt | Direct Reading Titrator | 0-20 ppt Salinity in 0.4 ppt increments | 50 | 2 | R1 (1) |
| 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) |

^{*} Often referred to as Carbonate Hardness in the aquarium industry. † Featured test in AQ Series of combination outfits.

Range

Strip

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.

| 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 | 6 |
| | Alkalinity 0, 40, 80, 120, 180 ppm | 4 |
| | 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 |
| | | |

Code



^{*} Note: Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.

Fresh & Salt Water COMBINATION OUTFITS

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.



| Method | Range/Sensitivity |
|----------------------------|--|
| Salicylate method | 0.0, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0 ppm NH ₃ -N |
| Diazotization/ coupling | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm N0 ₂ -N |
| Zinc reduction | 0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm NO ₃ -N |
| Wide range indicator | 5.0, 6.0, 6.5, 7.0,. 7.5, 8.0, 9.0, 10.0 pH |
| Bipyridyl indicator | 0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe |
| | Salicylate method Diazotization/ coupling Zinc reduction Wide range indicator |

| 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-3561-01 Shipping Code HF (3)

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





Oxygen

titration

| 0 . 0" . 0 | | No. of the last of |
|----------------------------|------------------------|--|
| Octa-Slide 2 Comparator | Method | Range/Sensitivity |
| Ammonia | Salicylate method | 0.0, 0.05, 0.1, 0.2 <mark>5, 0.5,</mark> 1.0, 1.5, 2.0 ppm NH ₃ -N |
| Nitrite | Diazotization/coupling | g 0.05, 0.1, 0.2, 0.3, <mark>0.4,</mark> 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 N0 ₃ -N |
| pН | 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 | Modified Winkler | 0-10 ppm. in 0.2 ppm |

Code 3561-01

Fresh & Salt Water COMBINATION OUTFITS

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.



| 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 I | | |
| Nitrite Nitrogen | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm NO ₂ N | | |
| рН | 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 0 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-3635-05

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, 1 | .0.0 ppm N0 ₃ ⁻ -N | |
| Nitrite Nitrogen | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0 | 1.8 ppm NO ₂ N | |
| рН | 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 0 ₂ | 0.2 ppm | |
| Salinity | 0-20 ppt Salinity | 0.4 ppt | |
| Temperature | Range | Sensitivity | |
| Armored Thermometer | -5° to 45°C | 0.5°C | |
| | | | |



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.

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

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 Accessories

- Carrying Case, Order Code 2000-CS, NH (6)
- Battery Pack with Holder (Rechargeable),
 Order Code 2000-BP, NH (2)
- SmartLink3 Software with Cable, Order Code 1901-CD, NH (2)
- COD Heater Block (for Total N & P Analysis), Order Code 5-0102, NH (15)
- Bluetooth Mobile Printer, Order Code 5-0066



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 |
| рН | 120 mL | 4.0 pH | 2866-J | NH |
| рН | 120 mL | 7.0 pH | 2881-J | NH |
| pН | 120 mL | 10.0 pH | 2896-J | NH |





| 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 |
| | |

Fresh & Salt Water COMBINATION OUTFITS

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

| 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 |
| Size: Weight: | 7.5 x 3.5 x 2.5 inches 15 ounces |



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)

SMARTLink 3 Program & Interface Cable

Order Code 1901-CD

Shipping Code NH (1)

Interface the SMART3 Colorimeter with a Windows® based personal computer. The program can be used to download data stored in the dataloggers of the SMART Spectro and the SMART2 Colorimeter. The program allows the user to identify, organize, view, manipulate,

and store data as a database
on a PC. Data can also
be copied and pasted
or exported to other
applications as an
ASCII tab delimited text file.

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 |
| | | |

SMART Spectro & SMART3 COLORIMETER REAGENT SYSTEMS

| | | SMART Spectro 2 | SMART3 Colorimeter | # of | | |
|---------------------------------------|--|---------------------|---------------------|-------|------------|----------|
| Test Factor | Test Method (# of reagents) | Range ppm | Range ppm | Tests | Order Code | Shipping |
| 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 |
| 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 |
| Ammonia Nitrogen HR | Nesslerization (2) | 0.05-4.00 | 0.05-4.00 | 50 | 3642-SC | R1 |
| Barium | Barium Chloride (1) | | 5-200 | 50 | 3638-SC | NH |
| 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 |
| 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 |
| 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 | 0076-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 |
| 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 |
| 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)

SMART Spectro & SMART3 COLORIMETER REAGENT SYSTEMS

| | | SMART | SMART3 | | | |
|-------------------------|------------------------------------|----------------|----------------|------------|------------|----------|
| | | Spectro 2 | Colorimeter | 4- | | |
| Test Factor | Test Method (# of reagents) | Range ppm | Range ppm | # of Tests | Order Code | Shipping |
| 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 |
| lodine | 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 |
| Manganese LR | PAN [3] | 0.02-0.70 | 0.01-0.70 | 50 | 3658-01-SC | HF |
| Manganese HR | Periodate (2) | 0.3-15.0 | 0.3-15.0 | 50 | 3669-SC | R1 |
| Mercury | TMK [3] | 0.02-1.50 | 0.01-1.50 | 50 | 4861-01 | HF |
| 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-SC | HF |
| Nitrate Nitrogen LR | Cadmium Reduction (2) | 0.05-3.00 | 0.10-3.00 | 20 | 3649-SC | R1 |
| 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 | 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 |
| 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 |
| 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 | 1 , 6 , | 1-50 | 1-75 | | 3687-SC | |
| | Silicomolybdate (3) | | | 50 | | 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 |
| 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-SC | HF |

 $^{^{\}ast}$ 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)

Aquaculture Lab - Model SCL-08 Order Code 1983-03 Shipping Code LQ (34)

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.



Code 1983-03

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.

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

| pН | |
|--------------|--------------------|
| 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 |
| t auto. | Concentratio | n |
| lgCl | Range: | 0.0 to 100 |
| | Resolution: | ±1 LSD |
| | Accuracy: | ±0.5% or ±1 LSD |
| 700 | | |

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





Standardized pH Buffer Solutions

For use in calibration of pH meters. Available in 100 mL (-J) and 500 mL (-L) sizes.

| Code |
|------|
| 2866 |
| 2881 |
| 2896 |
| |





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: | ' | 5-0034-01 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 | | AA alkaline batteries (incl >60 hours continuous usi | | Four 1.5 AAAA batteries (included) >700 hours continuous use |
| Display: | Single Cu | stom 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 | 3" 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 41n | nm) |

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

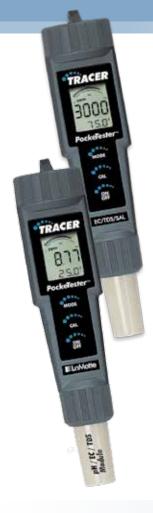
Order Code 1741 Shipping Code NH (1)

- 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 1970-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 |
| | |



SAMPLING EQUIPMENT



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 polymethylpentene 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.

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.

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.





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

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