



# CONTROL COMPANY



## Unique Tools Guide

----- ISO 9001 QUALITY-CERTIFIED (DNV)

----- ISO 17025 QUALITY CERTIFIED (A2LA)

# Adjustable Spray Wash Bottles

## Wash Bottles—with an adjustable spray

Wash Bottles have an adjustable spray for every requirement. Set the nozzle on fine mist for TLC plates, position it to needle to rinse glassware, and pump a continuous, forceful jet on the big stream position for washing filters.

## No-effort pumping

The pump trigger is comfortable for one-handed operation, provides controlled delivery, and requires a very light pressure. Ease of use reduces finger fatigue when continuously pumping or rinsing a series of tubes. Contoured to fit in the hand, it makes the awkward-to-grasp, difficult-to-pump, and impossible-to-control squeeze bottle obsolete. The instant-off trigger release eliminates messy drips on the bench. Chemical-resistant and virtually unbreakable bottle is made of high-density polyethylene (HDPE). The sprayer is made of polypropylene (PP). Ideal for hot, cold, aqueous, and solvent-based solutions. The entire wash bottle may be gas or chemically sterilized. It may be cleaned in the lab dishwasher.

## Zero contamination

Closed position on sprayer maintains solution purity by eliminating overnight evaporation and air/dust contamination. Squat shape takes up little bench space and assures a low center of gravity to eliminate tip-over problems. Double-headed design, available only in the 1000-milliliter size (1 liter), has a convenient side-fill opening to help maintain purity of solutions. When you do hit empty, the double-headed feature eliminates removing a dripping pump and allows refilling in seconds through a separate opening.

**Cat. No. 3340** Double-headed Adjustable Spray Wash Bottle 1000ml (lower left)

**Cat. No. 3345** Adjustable Spray Wash Bottle 240ml (3/pack) (upper right)



## Spray-Anywhere™ Adjustable Sprayer

Sprayer changes any bottle into a wash bottle, turns any reagent into a spray. Chemical-resistant and virtually unbreakable sprayer is made of polypropylene. It's ideal for hot, cold, aqueous, and solvent-based solutions. The entire unit may be gas or chemically sterilized and is dishwasher-safe. Sprayer has a continuously adjustable spray for every requirement. Set it on fine-mist, needle, or big-steam. Closed position maintains solution purity by preventing evaporation and air/dust contamination.

Trigger is comfortable for one-handed operation. Provides controlled delivery and requires a very light pressure. Contoured shape fits in the hand and reduces finger fatigue when pumping continuously. Instant-off release eliminates messy drips on the bench.

## Use with any container

A cone-shaped universal adaptor bung fits virtually all glass, plastic, and metal containers, bottles, and flasks. Fits inside diameters from 1 inch to 1½ inches. Tube diameter is ¼ inch. Tube length is 32 inches.

**Cat. No. 3347** Spray-Anywhere™ Adjustable Sprayer

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## Certified Cheesecloth Wipes

### Reagent-grade quality

New wipes are certified to be 100% pure cotton of reagent-grade quality and purity. They meet all lab requirements for cleanliness, softness, absorbency, and strength. Cheesecloth Wipes absorb 6 times their own weight of both solvents and aqueous solutions. They never scratch surfaces or fall apart like paper towels.

### Clean any optical grade surface

Use them to wipe cuvetts and microscopes, clean cameras, and dry delicate glassware, syringes, pipettes, and pH electrodes. Because they are inert to even harsh solvents, they are ideal as a filtering material. Certified Cheesecloth Wipes meet cleanliness specifications of USP (United States Pharmacopoeia) and Federal Specification CCC-G-101c.

Individually dispensed wipes eliminate time-consuming cutting of bolts of cloth and the dust, dirt, and waste associated with handling difficult-to-store rolls.

#### Cat. No. 2050 Certified Cheesecloth Wipes

Brilliant white, 9-inch-square pad (8-ply) unfolds to approximately 18 x 36 inches, 60/dispenser box (left)

#### Cat. No. 2057 Certified Cheesecloth Mini-Wipes

Brilliant white, 4-inch-square pad (8-ply) unfolds to approximately 7 x 14 inches, 200/box (right)

#### Cat. No. 2055 Certified Cheesecloth Bolt

100-yard bolt, 36 inches wide (not pictured)

## Clean Wipes™

### New universal clean-up tool

Premoistened Clean-Wipes™ clean up even the dirtiest parts. Non-woven cloths are moistened with a blend of pure, reagent-grade 70% isopropyl alcohol and 30% reagent-grade deionized water, or 100% pure reagent-grade deionized water. They are ideal for wiping optical parts, delicate glassware, electrodes, cuvetts, microscopes, or lenses. Wipes are also available dry, with no solution. This permits using any liquid by simply adding eight fluid ounces to the wipe canister. Instantly clean metals, plastics, glass, rubber, and epoxies. Use for cleaning electronics, computer screens, instruments, probes, glassware, syringes, pipettes, cameras, and lab counters. Wipes are designed for all applications in environmentally sensitive areas.

### Lint-free

Very strong, nonwoven cloth is soft and lint-free. Constructed of cellulose and polyester, it will not scratch surfaces. Meets all lab and production requirements for cleanliness, softness, absorbency, and strength. Long-lasting wipes never fall apart like paper towels.

### Convenient

Individually dispensed wipes are handy and ready for instant use. Unique opening allows wipes to virtually glide out when pulled. Reclosable bench top container assures a clean wipe every time. Snap-on sealed top eliminates contamination from dust or dirt. Each canister is provided in shrink-wrap or a sealed bag to maintain cleanliness for use in clean rooms. Wipes are 6 x 9 inches and packaged 100 per polyethylene canister.

#### Cat. No. 2065 Premoistened Alcohol/DI Clean-Wipes™

70% reagent-grade isopropyl alcohol and 30% reagent-grade deionized water

#### Cat. No. 2060 Premoistened DI Clean-Wipes™

100% pure reagent-grade deionized water

#### Cat. No. 2061 Dry Clean-Wipes™

User adds any solution







## Optik-Wipes™

One swipe makes eye glasses sparkle. Designed specifically for wiping goggles, lenses, eyeglasses, gauge windows, plastic glasses, fume hood windows, optical parts, and microscopes/magnifiers. Clean smudges, dirt, dust, and the static that attracts them. Wipes polish with one swipe. Works equally well with glass and plastic. Premoistened cloths easily remove oil, grease, and lint.

### Won't rip apart

Nonwoven cloth is premoistened with a unique formulation. Strong, nonwoven cloth is soft and lint-free. Constructed of cellulose and polyester, it will not scratch surfaces or fall apart. Individually dispensed wipe is handy and ready for instant use. Reclosable container assures a clean wipe every time and eliminates contamination from dust or dirt. Microfiber cloth to polish lenses is included. Individual pop-up 6 x 9 inches wipes are packaged 100 per polyethylene canister.

**Cat. No. 2067 Optik-Wipes™**

## Clear Plastic Lab Wrap



### Tight seal

Clear Plastic Lab Wrap is designed specifically for the lab. It has "low tangle" properties to insure that it doesn't ball up when handled. It also has "high cling" properties to enable wrapping a beaker, flask, or petri dish with an extraordinary tight seal that stays in place. The clarity of the film allows you to see through it. The distinctive proprietary formulation yields ultra-clean film to ensure sample purity and eliminate contamination. It is made of 100% polyethylene.

The carton has a metal tear-off bar for ease in achieving the exact size needed. The carton also has unique "flaps" which prevents the roll from leaving the box. Plastic wrap size is 12 inches wide by 100 feet long.

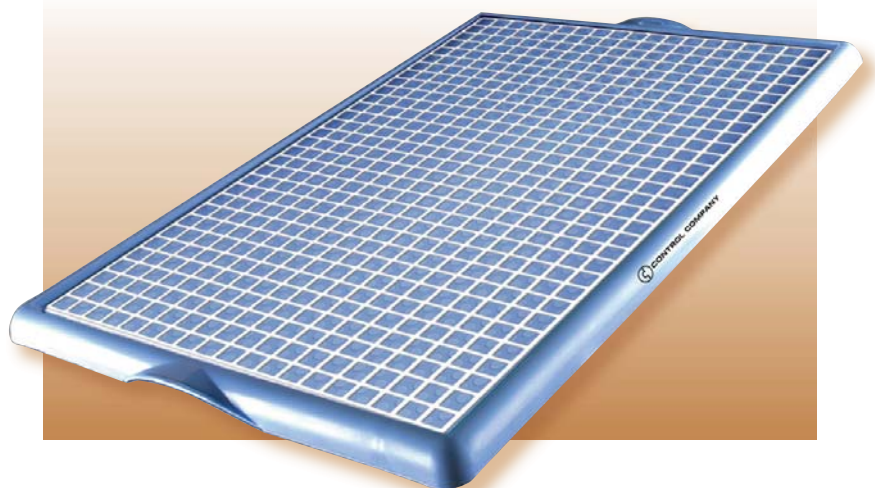
**Cat. No. 3470 Clear Plastic Lab Wrap**

## Workstation Spilltray™ and Drying Rack

Eliminate spills with this chemical-resistant, maintenance-free, polyethylene containment tray. Use one at each workstation or fumehood to safely handle chemicals and liquids while pipeting, measuring, or mixing. Holds 1¼ liters of spilled liquid. Easy to clean—simply lift off the white grid and empty.

Low profile design is perfect for drying glassware and delicate items. Plastic grid cushions and protects against breakage and scratches. Grid cuts drying time in half by permitting air circulation. Entire unit is dishwasher safe. Size is 16½ x 13 x ¾ inches. Weight is 1 pound.

**Cat. No. 3450 Workstation Spilltray™ and Drying Rack**





## Whoosh-Duster™

### Clean equipment you wouldn't dare touch

Clean optical lenses, balance parts, microscope slides, relay contacts, spectrophotometer cells, photographic slides, circuit boards, syringes, micropipettes, and flame atomizers. Perfect for delicate, difficult-to-clean, and inaccessible equipment. The supplied snorkel, a five-inch, nonconductive polyethylene tube, provides high-pressure, pinpoint jets of "air" exactly where you want it. A trigger actuator valve provides for controlled delivery.

### Safe

Contains an EPA (Environmental Protection Agency) designated substitute for ozone-depleting HFCs and CFCs (chlorofluorocarbons). The pure formulation produces 71 psi of high-pressure dusting. It has 25% more power than cheaper, adulterated products.

### Pure, dry, and triple-filtered

Whoosh-Duster™ is a portable, noncorrosive, nonflammable, dry and odorless gas. Contains eleven ounces of pure compressed gas, triple-filtered to 0.3 microns to eliminate moisture and all contaminants. The "air compressor in a can" provides up to 3000 jets of cleaning power.

**Cat. No. 3117 Whoosh-Duster™ (6 per case)**

## Dust'it™ Blower



Powerful bulb duster forcibly blows away dust, lint, and dirt. It provides high-pressure, pinpoint jets of air exactly where desired. Varying the "squeeze" provides for controlled delivery. One-way inlet valve at the top stops air/dust from being drawn through the tip. Non-conductive plastic sleeve-tip prevents scratches and permits cleaning optical lenses, slides, circuit boards, and cuvetts. It's ideal for delicate, difficult-to-clean, and inaccessible equipment. Dust'it™ provides the best environmentally safe solution. Size is 2¼ diameter x 5 inches. Weight is 2 ounces.

**Cat. No. 3119 Dust'it™ Blower**



## Cyto-Freeze™

### A freezer in a can - Instant Cold

A unique aerosol designed to rapidly cool any material. The fastest coolant available. Excellent for cooling liquid, semi-solid, and solid samples. Use for ultra-rapid freezing of fresh tissue, cooling of liquids to force precipitates prior to filtration, and chilling of field samples.

### Flash freeze

During cryostat sectioning, Cyto-Freeze™ flash freezes tissues instantly. It cools to -60°F (-50° C) in three seconds. To cut sections, simply mount tissue directly on a microtome holder, spray, and section. Saves time and eliminates water crystals caused by slower freezing methods. The supplied five-inch polyethylene "snorkel" pinpoints freezing power exactly where needed. A trigger-actuator valve provides controlled delivery.

Contains an EPA (Environmental Protection Agency) designated substitute for ozone-depleting HFCs and CFCs (chlorofluorocarbons). The pure formulation and unique valve provide superior chilling properties. Chills faster, uses less refrigerant, and maintains lower temperatures than products that use inexpensive filler material.

### Ultra-pure

Only Cyto-Freeze™ is 100% triple filtered pure gas. Cheaper sprays use unfiltered material, which reduces cooling ability, adds contaminants, and injects moisture-containing crystalline artifacts. Can contains eleven ounces of non-corrosive, non-flammable, odorless, and completely volatile gas.

**Cat. No. 3118 Cyto-Freeze™ (6 per case)**



## Knife Set

Fine precision cutting tools for the lab are provided by this high quality knife set. Ultra-micro to heavy-duty cutting edges are perfect for corks, paraffin, plant samples, and rubber tubing. Exceptionally sharp knives are ideal for delicate, close-tolerance, accurate cutting needs.

### High-grade steel construction

Blades are made of the highest-grade steel and are ground to razor sharpness for precision cutting. Features include positive-holding blade lock, non-slip ergonomic handles, and a perfect weight for balance.

### Over 45 blades

Comes complete with 8 different handles, 47 sharp blades, and an aluminum-oxide, wet/dry sharpening stone. Set is packed in a handy plastic clamshell carrying-storage case with magnets to keep the blades in place.

Cat. No. 3320 Knife Set

## Microprobes— 6-pack

### Six scientific shapes for manipulation of micro work

Microprobes are ideal for lab applications—positioning samples under a microscope, dissecting, inspecting, soldering, gluing, and all micro-manipulation in the lab.

### Hundreds of uses

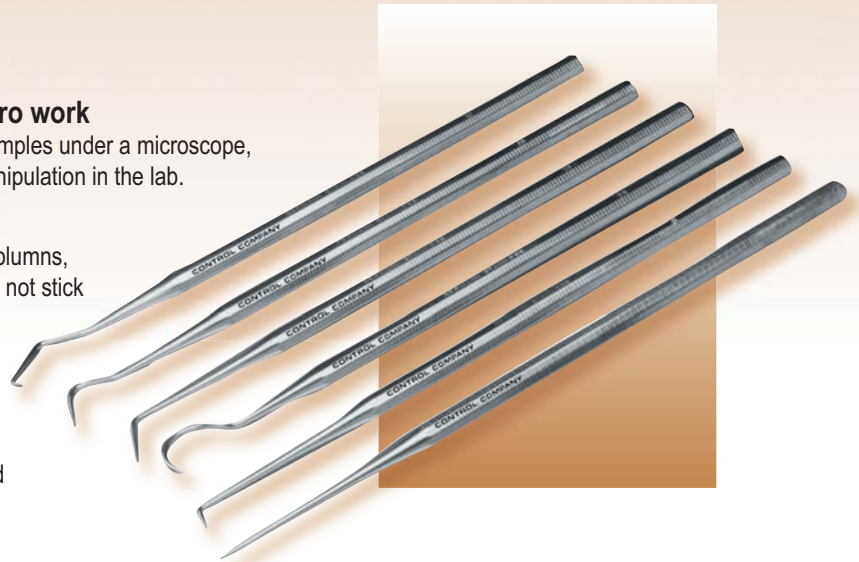
Probes are excellent for hooking small springs, packing columns, cleaning miniature parts, and soldering boards (solder will not stick to probes). Precision-ground, highly polished, hardened, and tempered stainless-steel instruments are designed for quality-control and experimental requirements.

The tips are hand-honed to needle sharpness.

Handles are non-slip and ergonomically designed.

Probe length is 6 inches. Six different shapes are supplied in a handy carrying case.

Cat. No. 3310 Microprobes— 6-pack



## Micro Spatulas— 4-pack

### Micro Spatulas—perfect for handling extremely small samples with ease

Use spatulas to dispense/transfer expensive chemicals, place particulate matter in weighing containers, apply micro amounts of adhesive for tacking down specimens, and mix small granular samples.

### Four sizes

Use with balances, microscopes, and weighing boats. Flat-ended, stainless-steel blades have widths of 0.004 to 0.04 inches (0.1 mm, 0.3 mm, 0.5 mm, and 1.0 mm). Handles are color-coded for easy size identification. Overall length is 2½ inches (6 cm).

Cat. No. 3300 Micro Spatulas— 4-pack



## Original Labtool™

Fits in your pocket and provides 14 tools "at the ready". This compact, folding multi-tool was specifically designed for today's needs. Double lock safety system helps protect against accidental injury. Provides for hundreds of laboratory and plant requirements—use the file to score or break glass tubing, the opener for chemical bottles, the saw to reduce cork stoppers, the knife to cut tubing, and much more. Has pliers/gripper, wire cutter, inches/millimeter ruler, knife, file, nut driver, large/medium/small flat head screwdrivers, Phillips™ screwdriver, bottle/can opener, wood saw, and serrated blade. Constructed of stainless steel for years of heavy-duty use. Measures just 4 inches long when closed. Weight is 10 ounces.

Cat. No. 3325 Original Labtool™



## Labtool II™

Stainless-Steel Labtool II™ with aluminum handle is the ideal device to help with lab needs. Fourteen tools provide for hundreds of laboratory and plant requirements—use the opener for chemical bottles, the saw to reduce cork stoppers, the knife to cut tubing, and much more. Supplied with pliers/gripper, wire stripper, wire cutter, ruler, small knife, large knife, serrated knife, punch, flat head screwdriver, Phillips™ screwdriver, bottle opener, needle, saw, and serrated stripper. Pocket size unit measures just 3½ inches when closed, weight is 7 ounces.

Cat. No. 3326 Labtool II™



## Mini-Labtool™ with Keychain

Stainless-Steel Mini-Labtool™ with aluminum handle is 13 tools in 1. Complete with pliers/gripper, wire stripper, wire cutter, knife, flat head screwdriver, Phillips™ screwdriver, scissors, file, saw, bottle opener, can opener, and key-chain. Unit measures just 2½ inches when closed, weight is 3 ounces.

Cat. No. 3327 Mini-Labtool™ with Keychain

# Traceable® SpatulaBalance™

Unique spatula both scoops material and instantly weighs it. Balance with digital display is located in the easy-grip handle. The weighing range is 0 to 300.0 grams and 0 to 10.580 ounces. Readability is 0.1 gram and 0.005 ounce. Level position repeatability is 0.1 gram and linearity is  $\pm 0.2$  gram. Three position soft-touch keys in the handle tares, holds (freezes the display), and changes grams/ounces. Tare range is 0 to 450 grams. LCD indicates low battery.

Chemical/corrosion resistant ABS plastic construction allows transferring materials without sticking to it. SpatulaBalance™ transfers and weighs crystals, granulated material, solids, liquids, precipitates, chemicals, and expensive matter. Large scoop minimizes spilling.

To assure accuracy an individually serial-numbered Traceable® Certificate is supplied to indicate traceability to standards provided by NIST (National Institute of Standards and Technology).

Supplied with two AAA batteries for over a year of usage. Scoop holds 32 milliliters/1.1 fluid ounces and scoop volume is 32 cubic centimeters/1.95 cubic inches. Unit is 9 x 2 x 1 inches and weight is 3 ounces.

**Cat. No. 3475 Traceable® SpatulaBalance™**



## Hose/Tubing Clamp Assortment Kit

### Eliminate leaks

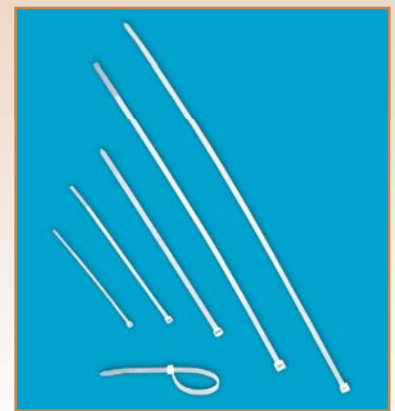
Clamps securely fasten tubing to connectors, pumps, glassware, and filtration units. Chemical-corrosion-resistant, rustproof, non-conducting nylon is ideal for use in wide temperature range of 32 to 194°F (0 to 90°C).

### May be sterilized

One-piece, reusable clamp squeezes shut for a leak proof seal. Pressing on the side releases the clamp. Designed specifically for pressure, vacuum, and liquid applications where a secure seal is required. Tight-Seal™ is the only clamp that works with all types of plastic and rubber tubing. May be chemically or gas-sterilized for biomedical or food applications. Available in 13 sizes, clamps have an inside diameter of ¼ to 1½ inches (6.25 to 40.90 mm). Assortment includes 65 clamps, 5 of each of the 13 sizes. Handy kit ensures that the proper size is immediately available.

**Cat. No. 3280 Hose/Tubing Clamp Assortment Kit**

Cat. No	Inside Clamp Diameter	
	Inches	Millimeters
3261	0.246 to 0.290	6.25 to 7.37
3262	0.360 to 0.406	9.14 to 10.31
3263	0.410 to 0.468	10.41 to 11.89
3264	0.475 to 0.536	12.07 to 13.61
3265	0.538 to 0.608	13.67 to 15.44
3266	0.597 to 0.665	15.16 to 16.89
3267	0.670 to 0.780	17.02 to 19.81
3268	0.730 to 0.830	18.54 to 21.08
3269	0.870 to 0.975	22.10 to 24.77
3270	0.953 to 1.093	24.21 to 27.76
3271	1.031 to 1.187	26.21 to 30.15
3272	1.250 to 1.425	31.75 to 36.20
3273	1.406 to 1.610	35.71 to 40.90



## Tight-Ties™ Assortment Kit

These cable ties feature a unique tapered tip for fast insertion and tightening. One-piece, self-locking ties are made of tough, chemical-corrosion-resistant, rustproof, non-conducting nylon. Applications include affixing tubing to pumps, bundling materials, hanging equipment.

### Usable in wide temperature range

Use in the wide temperature range of -40 to 185°F (-40 to 85°C). Tensile strength is 12 to 50 pounds. When fastened, the diameters adjust ½ to 4 inches (2.60 to 101.60 mm).

**Cat. No. 3285 Tight-Ties™ Assortment Kit**  
Includes 400 ties consisting of five sizes.

Cat. No.	Quantity	Length (Inches)	Millimeters
3286	100 ea.	4	101.60
3287	100 ea.	5½	142.88
3288	100 ea.	8	203.20
3289	50 ea.	11	279.40
3290	50 ea.	14	355.60



## Desi-Vac™ Containers

Plastic container with a vacuum pump is ideal for drying, preserving, storing, and even shipping samples. Vacuum pump built into the top removes air with manual strokes. Rubber O-ring-sealed cover maintains vacuum. Achieves a vacuum of better than 200 inches of water (15 inches of mercury). A release button on top allows air into the container to remove the lid. Sample Humidity Sponges™ desiccant drying packets are included.

### Keep your powder dry

Ideal for storing chemicals, powders, tissues, plant sections, electronics, and weighing samples. Vacuum and desiccants keep material dry. Supplied with a vacuum indicating button that confirms interior vacuum and a dial hygrometer that displays 0 to 100% relative humidity with a resolution of 2% RH.



Cat. No.	Size	Volume	
3163	8½ x 7 x 6½ inches	183 in³	3,000 cc
3164	11½ x 9 x 10 inches	702 in³	11,500 cc



## Desi-Vac™ Containers

Plastic container with a vacuum pump is ideal for drying, preserving, storing, and even shipping samples. Vacuum pump built into the top removes air with manual strokes. Rubber O-ring-sealed cover maintains vacuum. Achieves a vacuum of better than 200 inches of water (15 inches of mercury). A release button on top allows air into the container to remove the lid.

### Keep your powder dry

Use desiccants to keep material dry—ideal for storing chemicals, powders, sample tissues, and plant sections, and for weighing samples.

Cat. No.	Diameter	Height	Volume	
3160	4⅛ inches	4¾ inches	37 in³	600 cc
3161	4⅛ inches	5⅝ inches	52 in³	850 cc
3162	4⅛ inches	7⅞ inches	67 in³	1100 cc

# Humidity Sponge™—Regenerable/Indicator

## Humidity Sponges™ meet all drying requirements

The latest in drying technology turns any container into a desiccator. Indicator bag particles show when moisture capacity has been reached.

## Nontoxic and ideal for clean rooms

Humidity Sponges™ meet FDA (Food and Drug Administration) requirements for use in direct contact with food and drugs. Desiccant (sodium calcium aluminosilicate hydrate) is nontoxic and is a GRAS (Generally Recognized as Safe) material. Ideal for storing food/pharmaceutical samples, electronics, PC boards, optics, chemicals, and equipment.

Outer material is made of DuPont's Tyvek\* breathable, high-density polyethylene. Zero-Dust bags are certified as Class M3.5 (formerly Class 100) clean room compatible.

## Retains 16% moisture, guaranteed

Drying capability depends on volume, temperature, and moisture. As a benchmark, one bag will maintain dry conditions in a container with a volume of two gallons (476 cubic inches/7800 cubic centimeters). Bags are guaranteed to retain 16% moisture by weight; typical results are 37% moisture absorption. Each bag measures 3 x 3 x ¼ inches and weight is ⅜ ounce.



## Indicator Humidity Sponges™

Indicator Sponge has one side of clear film and one of white Tyvek\*. It contains blues particles which turn pink when the desiccant has reached its moisture capacity and needs to be replaced. Indicator Humidity Sponge™ cannot be regenerated.

## Regenerable Humidity Sponges™

Regenerable Sponge has white Tyvek\* on both sides and may be regenerated and reused continuously. Regeneration requires heating in an oven at 220°F (104°C). Included in each pack is a Relative Humidity Card which changes

from blue to pink to show when bags need to be regenerated.

**Cat. No. 3151 Humidity Sponge™ Regenerable (40/pack)**

**Cat. No. 3150 Humidity Sponge™ Indicator (40/pack)**



## Liquid Alarm

Inexpensive Liquid Alarm may be placed anywhere. Use it to detect when drums, tanks, flasks, or beakers are close to overflowing. It's the perfect reminder for unattended pumps. The moment a solution touches the sensor, the alarm sounds and a red LED light flashes continually until the liquid no longer touches the sensor.

## Alarm sounds for hours

Place the sensor on the floor to detect spills. It allows taking action before a serious situation develops. A loud, high-decibel alarm sounds and a red LED light flashes until the sensor is removed from liquid. Constantly alarms for hours. Position the detector on an overflow tube or near a pump to alert you when an accident is occurring. Cable length is 10 feet.

Use with aqueous solutions and liquids that don't attack plastic. Battery-operated alarm sounds even during power outages. Pays for itself by preventing just one ruined lab test. Size is 1<sup>13</sup>/<sub>16</sub> x 3 x ¾ inches. Weight is 2½ ounces. Supplied with AA alkaline battery. Replacement battery Cat. No. 1111.

**Cat. No. 3240 Liquid Alarm**



## Neutral-Sol™ Chemical Burn Station

Neutral-Sol™ provides emergency treatment for acid and alkaline chemical burns. In seconds, it neutralizes chemicals accidentally splashed on skin, eyes, or clothing. It also provides a flushing action for dust.

Easy-grab, wide-mouth bottle offers fast response when seconds count. Water only dilutes acids and caustics—Neutral-Sol™ counteracts them. Neutral-Sol™ is a sterile, 6.9 pH phosphate buffer similar to those present in human tissue.

## Fulfills OSHA requirements

Place several stations in every lab. Locate near chemical storage areas and in the plant. Complies with OSHA regulations by providing a quick drenching and flushing action. Burn Station is 16¼ x 14½ x 4¼ inches and colored brilliant green for fast recognition. ABS plastic station comes with one 32-ounce bottle of Neutral-Sol™ and wall mounting screws.

**Cat. No. 3200 Neutral-Sol™ Chemical Burn Station**

**Cat. No. 3201 Neutral-Sol™ Replacement Solution, two 32-oz bottles**

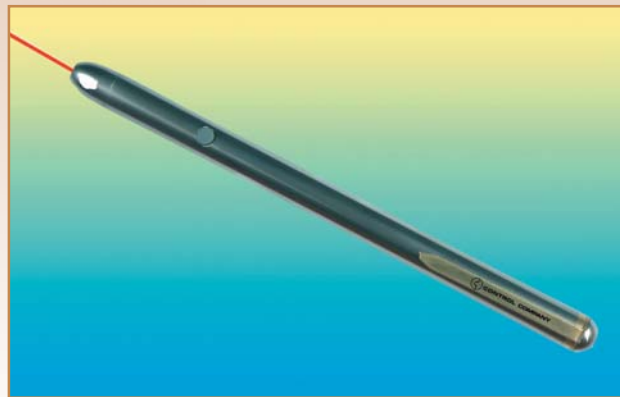
# Automatic Ultrasonic Measuring Meter

Simply point and shoot to measure distance, area, and volume. Designed specifically for easy and intuitive use. After one minute, you'll never again look at the directions. LCD displays exactly which measurement is being made. One-key operation automatically performs length, area, or volume calculations. Audible beep confirms each measurement. Three distance memories and one calculation memory are maintained even when the unit is off. Memory permits computing areas and volumes from stored measurements. Calculator function permits addition/subtraction of readings.

Range is 2 feet (0.61 meters) to 50 feet (15.24 meters). Resolution is 0.1 feet and 0.01 meters with an accuracy of 1% ±1 digit. Instantly converts meters to feet or vice versa with the push of a switch. Utilizes the newest-generation, high-precision Polaroid™ Ultrasonic Sensor. Designed for indoor/outdoor use. Automatically and accurately compensates for temperature from 32 to 104°F (0 to 40°C).

Supplied complete 1-year battery. Size is 5½ x 2½ x 1½ and weight is 5½ ounces. Replacement battery Cat. No. 1112.

**Cat. No. 3419 Automatic Ultrasonic Measuring Meter**



## Key Chain Micro-Laser Pointer

Laser is perfect for slide presentations, wall charts, and lectures. Provides a brilliant red light at the highly visible 650 nm wavelength with a beam diameter of 3.5 mm. Power Class III laser has an output power of 4 mW and a range of 300 feet.

Three silver-oxide batteries provide months of intermittent use or 2 hours of continuous use. Switch is momentary on/off. Size is 9/16-inch diameter x 2½ inches. Weight is less than one ounce. Supplied complete with batteries and key chain. Replacement battery Cat. No. 1039.

**Cat. No. 3141 Key Chain Micro-Laser Pointer**

## Pocket Clip Laser Pointer

Perfect pocket laser pointer for slide presentations, detailed scientific discussions, microscope projections, field studies, wall charts, and lectures. Provides a brilliant red light at the highly visible 630–680 nm wavelength with a beam diameter of 3.5 mm. Laser Class IIIA has an output power of 5 mW and a range of over 300 feet. Two AAAA batteries provide months of intermittent use or 2 hours of continuous use. Size is ½-inch diameter x 5½ inches and weight is 1¾ ounces. Supplied complete with batteries and pocket clip. Replacement battery Cat. No. 1113.

**Cat. No. 3140 Pocket Clip Laser Pointer**

## Laser Keychain

Pointer's brilliant red beam works equally well in daylight and dark. Laser is designed specifically for slide presentations, wall charts, and field use. Beam is at the highly visible 650 nm wavelength with diameter of 3.5 mm. Output is 4 mW with a range of 400 feet. Key chain makes it easy to carry. Supplied lithium battery powers unit for a year of intermittent use. Size is 2½ x 1 x ¼ inches, and weight is ½ ounce.

**Cat. No. 3143 Laser Keychain**



## Electrode Holder

Pays for itself by speeding up batch sampling and reducing probe breakage. NASA Space Shuttle engineering assures smooth and effortless operation. Performs like a robot arm in zero gravity.

### Ideal for multiple conductivity or pH readings

Fingertip control raises, lowers, and pivots (360 degrees) the perfectly balanced electrode holder wherever desired. Moves in all directions; holds electrodes safely and securely in any selected position. Electrode arm articulates at three points so electrodes always remain vertical.

### Accepts all brands

Three holes accept any standard glass, reference, combination or other electrode—or conductivity probe, and a temperature probe. Weighted die-cast metal base and spring counterbalance permit fluid movement with superior stability. Beware of cheap, plastic “look-a-likes” that have jerky, uneven motions. Complete with 21-inch metal arm, 8-inch diameter metal base, and probe holder. Weight is 6 pounds.

**Cat. No. 3090 Electrode Holder**



## Flexible-Arm™ Light

### Moves in all directions

Flexible-Arm™ places light exactly where needed. It's ideal for inspection, quality control, electronics, and sample examination. Fingertip bar raises, lowers and pivots the perfectly balanced lamp wherever desired. It moves 360 degrees in three dimensions. The arm smoothly articulates at three points. Spring counterbalance permits smooth and fluid movement with superior stability. Stylish design is geared specifically for the lab. It is engineered with durable metal for years of heavy use. The shade is compact and vented, has rolled edges, and a safety-glass cover with a UV filter for eye-protection.

### Natural daylight

Designed specifically to reduce distortion, increase contrast, and give visual clarity up to 40% greater than typical lamps. It is ideal for viewing samples, photographs, pc boards, and reading. It brings out the finest details and renders colors accurately. Beam closely resembles daylight for correct color detection. The natural light is virtually glare free. Supplied with 7 pound, 7 inch diameter metal base for the bench. In addition, it comes with clamping unit for positioning vertically or horizontally to the top or side of any edge. Supplied with white reflector and 35 watt bright halogen white light. Unit weight is 8 pounds. UL listed, 115 VAC.

**Cat. No. 3095 Flexible-Arm Natural-Light™ Light**  
extended arm length 20"

**Cat. No. 3096 Flexible-Arm Natural-Light™ Light**  
extended arm length 31"

**Cat. No. 3098 Replacement Halogen Bulb for 3095 and 3096**

# Hands-Free™ Fold-up Magnifiers

Hands-Free™ Magnifiers allow two-handed examination of objects. They provide a sharp, crisp, distinct image with vivid enhancement of details. Some sizes provide battery-powered brilliant illumination for precision work (batteries supplied).

## Magnifiers have perfect focus with zero distortion

Designed specifically for use in quality control, labs, food, electronics, manufacturing, and universities. White ruler markings in both inches and millimeters on the lower panel assist in making measurements. All-glass optics assures perfect focus with zero distortion. Magnifiers fold twice for compact storage. Replacement battery Cat. No. 1111. Replacement bulb Cat. No. 8014.



Cat. No.	Magnification	Lens Diameter	Lighted
3430	2.5 X	4 7/8 inches	YES
3431	2.5 X	3 1/2 inches	YES
3432	3.0 X	3 inches	NO
3433	3.5 X	2 inches	NO
3434	5.0 X	1 1/4 inches	NO
3435	7.0 X	7/8 inches	NO
3436	10.0 X	1/2 inches	YES

## 2X Magnifier Lamp

Magnifier Lamp is the ideal tool to view objects at two times magnification in bright light, with high-contrast and a sharply defined focus. Designed specifically for lab and plant applications requiring precise work. Useful in inspection, electronics, quality control, sample examination, and biological analysis.

### Magnifies large area

Large viewing area (4 x 2 1/2 inches) is easy on the eyes. Highly polished optical glass 2X (2-power) lens provides a crisp and distinct image with vivid enhancement of surface details. Sliding shutter cover protects lens from dust and scratches when not in use.

### Bright light makes examination easy

Supplied with a 60-watt incandescent bright bulb to light the exact area to be viewed. Brilliant light beam closely resembles daylight for optimal color detection and clarity. Convenient front handle provides fingertip control to raise, lower, and pivot the magnifier wherever desired. Extension is 31 inches. Clamps vertically or horizontally to the top or side of any edge. UL- and CSA-listed. Replacement bulb Cat. No. 9649.

Cat. No. 3357 2X Magnifier Lamp





## Illuminated Magnifier

Magnifiers provide an in-focus and highly defined view of surface details, illuminating uniformly over the field of observation.

High-powered magnification has universal application for precise scientific, plant, and fieldwork. Illuminated magnifiers are supplied with AA replaceable batteries. Replacement battery Cat. No. 1111. Replacement bulb Cat. No. 8707.

Cat. No.	Magnification
<b>3350</b>	Illuminated Magnifier 2X with 4X spot (Large size, 2¾ x 2¾ inches window)
<b>3351</b>	Illuminated Dual Magnifier 3X with 10X (Medium size, 1¾ x 1¾ inch window)
<b>3352</b>	Magnifier with adjustable focus 8X (Small size, 1 inch diameter, not illuminated)

## Illuminated Microscope

### Illuminated portable pocket microscope

Pocket Microscope magnifies view. An indispensable tool for anyone who needs to see things at high magnification in bright light, with true color, high contrast, and a sharply defined focus. Hand held unit is perfect for inspection, quality control, field use, electronics, metal analysis, clinical observation, cloth/paper examination, and plant studies. Adjustable light source directs the bright bulb onto the exact area to be examined. An adjustable focus control knob produces a rock-solid view.

### Rugged microscopes

Case is chemical- and shock-resistant ABS plastic. Zoom microscope comes with snap-on microscope slide holder accessory. Supplied with AA batteries. Pocket-sized units measure 5½ x 1½ x 7⁄8 inches and weight is 3 ounces. Replacement battery Cat. No. 1111.

**Cat. No. 3356** Illuminated Microscope 30X  
(with vinyl carrying case)

**Cat. No. 3355** Illuminated Microscope Zoom  
(60X to 100X with snap-on slide holder)





## Slide Holders

### Store microscope slides with ease, speed, and efficiency

Organize and classify your slides for instant reference and fingertip-fast retrieval. Use the index-card Microscope Slide Holders to sort, classify, or arrange slides in any order. Fingers never touch the slide.

### Adapt to any file system

Cards may be added, removed, or changed for fast updating and filing—insert a new card anywhere.

You will never outgrow this system. Adapts instantly to your slide ID system (numbers, letters, dates, names, or color coding). Visible, four-position tabs provide “always in sight” indexing. Ruled data lines are keyed to numbered slots and allow complete slide identification, plus your comments.

### Protect vital specimens from contamination

The durable holder is 3 x 5-inch cardboard fitted with a protective plastic frame. It ensures safe, clean, scratchproof, and secure protection for your specimens. Slides never touch. One hundred percent compatible with any and all makes of slides. Each slide holder card accepts four slides of 75 x 25 millimeters or 3 x 1-inch size of any thickness.

**Cat. No. 1008 Slide Holders (pack of 12)**



## Slide Holder Cabinet

**Cat. No. 1009 Slide Holder Cabinet, 1 Drawer**

Steel cabinet stores 100 slide holders, a total of 400 slides. Dimensions: 5 $\frac{1}{8}$  x 6 $\frac{1}{4}$  x 16 $\frac{1}{4}$  inches.

**Cat. No. 1075 Slide Holder Cabinet, 2 Drawer**

Steel cabinet stores 200 slide holders, a total of 800 slides. Dimensions: 5 $\frac{1}{8}$  x 12 $\frac{1}{2}$  x 16 $\frac{1}{4}$  inches.



## Write-On™ Aluminum Tags

Permanently engrave your warnings, messages, instructions, or sample number on these aluminum metal tags. Write on them with an ordinary ballpoint pen. Features a “soft center” that takes messages on both sides.

### Use in any environment

Extremely durable and suited for use in hot, cold, and moist environments. Handy size of 3 $\frac{1}{8}$  x 1 $\frac{3}{8}$  inches makes it ideal for tagging valves, tubing, samples, and cylinders. Package includes 48 tags with wires.

**Cat. No. 3070 Write-On™ Aluminum Tags**

## Anti-Static Static-Away™ Brush

Anti-Static Static-Away™ Brush eliminates harmful static. Eliminates the possibility that static will damage sensitive lab work, affect balance results, or harm microchip-driven instruments.

### Power to take ZAP out of static

Anti-Static Static-Away™ Brush dissipates static while whisking away harmful dust, lint, and dirt from your work environment. New design blends natural hair and synthetic conductive fibers that simply remove static as it cleans. Because it won't scratch critical surfaces, it's ideal for cleaning film, slides, optics, cuvettes, balance pans, microscopes, electronics, and computer monitors. It has a conductive composite handle.

### Maintain accurate readings

Use the compact brush to clean electronic balances and avoid pan weight variances caused by static. Even slight variations can ruin accurate readings. Washable brush is 2 $\frac{1}{2}$  x 2 $\frac{1}{2}$  x  $\frac{1}{4}$  inches. Weight is  $\frac{1}{2}$  ounce.

**Cat. No. 3316 Anti-Static Static-Away™ Brush**





Cat. No.	Color & Quantity	Size
3050	6 black, 2 red, 2 blue, 2 green	0.3mm
3051	Black/ 6 pack	0.3mm
3052	Red/ 6 pack	0.3mm
3053	Blue/ 6 pack	0.3mm
3054	Green/ 6 pack	0.3mm

## Permanent Marking Pen Assortment

Produce precise lines of 0.3-mm width. Perfect marking pens for lab samples, microscope slides, photographic slides, glass and plastic beakers, and plastic sample bags. Writes on all surfaces including glass, film, wood, plastic, metal, rubber, and porcelain. Unique stainless-steel long leg allows precise writing in a limited space. Instant writing, long storage time, and dry-out prevention are assured by an airtight ring seal cap.

Permanent ink dries in a split second and is waterproof and fade proof. Colors are opaque black, vivid red, blue, and green. Thinnest permanent line ever developed is sharp, precise, and clear.



## Scientific Technical Pen Assortment

Record results in lab notebooks, fill in charts, draw graphs, mark recording paper, and produce diagrams. Pen's unique, long leg lays flat against rulers and flexible curves for accurate alignment. This precision pen is perfectly balanced to feel good in your hand. Instant writing, long storage time, and dry-out prevention are ensured by an airtight ring seal in the cap. Pen responds the moment it is touched to paper.

### Long lasting, no bleeding

Smooth-flowing, fade-proof ink is a patented formulation. Instant-drying ink eliminates smearing and bleeding. Extra-large ink reservoir assures half-mile write out. Colors are ultra-black (opaque black for making superb photocopies), vivid red, blue, and green.

### Narrow lines—0.2 mm

Perfect and precise lines are drawn at first stroke with the long-legged, highly polished stainless-steel point tube. Durable wear-free plastic tip glides smoothly across a page. Tip stays sharp—won't "mush up." Narrow line is sharp, precise, clear, and constant. Line sizes are 0.2 mm and 0.4 mm. Order an assortment and a pack of your favorite color.

Cat. No.	Size	Color	# In Pack
3040	0.2 and 0.4 mm	Red, Blue, Green and Black	12
3041	0.2 mm	Black	6
3042	0.4 mm	Black	6
3043	0.2 mm	Red	6
3044	0.4 mm	Red	6
3045	0.2 mm	Blue	6
3046	0.4 mm	Blue	6
3047	0.2 mm	Green	6
3048	0.4 mm	Green	6



## Glassware Rescuer™

### Rescue glassware-using diamonds

Save your glassware, recover beakers, and preserve your flasks with this handy industrial diamond file. Instead of tossing glassware because of a chip, now you can rescue it. Half round/half flat shape smooths sharp and jagged edges.

### Never discard chipped glassware again

Pays for itself in 30 days by making your glassware safe for use. Also may be used to score glass tubing for breaking. Nonskid, faceted handle is easy to hold. File diameter is ¼ inch, file length 4 inches, overall length 8 inches.

Cat. No. 3315 Glassware Rescuer™



## Digital Key-Chain Counter with Wrist Strap

Key-Chain/Wrist-Strap/Carabiner Digital Counter is designed for ease-of-use and fail-safe counting. Features include display count to 99,999, two year constant use battery, water-resistant O-ring-sealed with shock-resistant ABS plastic case, button click for count confirmation, and recessed "no accident" reset.

Eliminates gear and miscount problems associated with mechanical counters. Diameter is 1 $\frac{1}{8}$  inches by  $\frac{1}{2}$  inches and weight is less than an ounce. Replacement battery Cat. No. 1039.

**Cat. No. 3129 Digital Key-Chain Counter with Wrist Strap**

## Hand Tally Counter

Easy-to-use, four-digit unit records up to 9999. Numbers instantly and automatically return to zero with a twist of the reset knob.

Hundreds of lab applications provide opportunities to: count blood samples, take surveys, inventory items, total drops of liquid, receive lab samples, and tally biomedical events. For ease in viewing, large white numerals appear on a black background. A protective window seals out dust, dirt, and humidity. The rugged, heavy-duty chrome-finished case has a hinged finger loop for a sure grip. Finger pressure on the button produces an audible click that signals the count. This feature provides the assurance of a registered count without looking at the counter.

Metal construction is designed for reliability, long life, and hard use. Unique engineering provides a smooth, tactile feel. Compact unit is ideal for carrying in the pocket. Size is 1 $\frac{1}{4}$ -inch diameter by 1 $\frac{1}{8}$ -inch width, and weight is 3 ounces.

**Cat. No. 3125 Hand Tally Counter**



## Digital Counter

Lightweight counter reads to 99,999. Water-resistant, O-ring-sealed and shock-resistant ABS plastic case is ideal for lab and plant use. Tactile click buttons provide positive action. Hold in your hand or sits on the bench.

### Completely electronic

Easy-to-read LCD display and solid-state construction eliminate gear and miscount problems associated with mechanical counters. Fail-safe design eliminates accidentally resetting. Size is 2 $\frac{5}{8}$  x 1 $\frac{1}{2}$  x  $\frac{5}{8}$  inches and weight is 1 ounce. Battery powers unit for over 2 years of continuous operation. Replacement battery Cat. No. 1039.

**Cat. No. 3127 Digital Counter**





## Touch-Counter™

### Cut counting time in half

Touch-Counter™ is a combination marker and digital counter designed for the lab and plant. Each time an item is touched, it is automatically marked by the felt-tip pen and counted by the built-in digital counter. Use it to count sample bottles, cell growths, and to receive/inventory/ship supplies. Operation is simple: Touch an item and it is marked and counted simultaneously. Impossible to make an error, even when interrupted. Marks hold your place and counter holds your total. Durable aluminum unit has an audible click, zero reset knob, and a 9999-digit counter. Touch-Counter™ is 7 x 2 x 1½ inches in length and weight is 6 ounces. Spring-actuated ink reservoir valve seals felt tip when not in use and prevents ink dry-out.

**Cat. No. 3130 Touch-Counter™**

Supplied with black disposable pen.

**Cat. No. 3132 Disposable Black 5-Pen Pack™**

**Cat. No. 3131 Disposable Assortment 5-Pen Pack™**

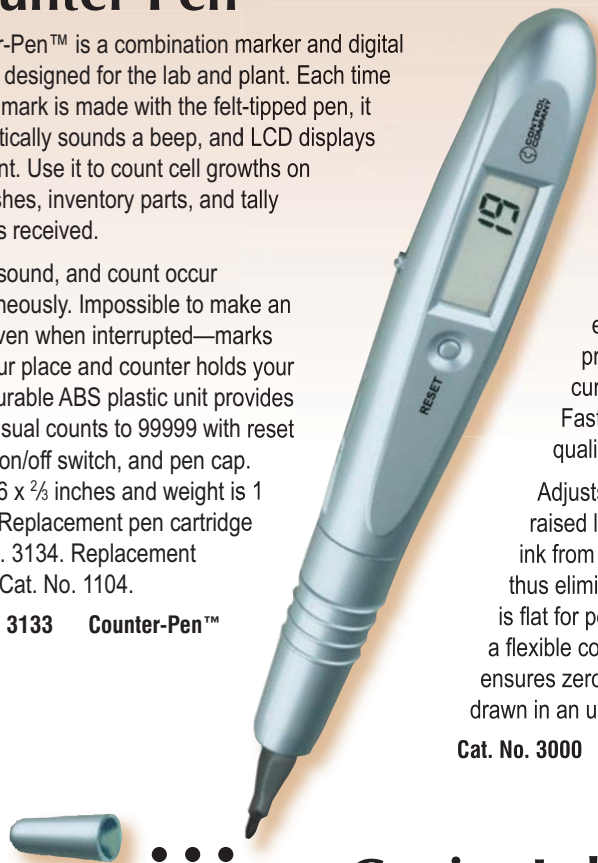
Pack contains one each: black, red, blue, green, and yellow.

## Counter-Pen™

Counter-Pen™ is a combination marker and digital counter designed for the lab and plant. Each time a black mark is made with the felt-tipped pen, it automatically sounds a beep, and LCD displays the count. Use it to count cell growths on petri dishes, inventory parts, and tally samples received.

Touch, sound, and count occur simultaneously. Impossible to make an error, even when interrupted—marks hold your place and counter holds your total. Durable ABS plastic unit provides audio/visual counts to 99999 with reset button, on/off switch, and pen cap. Size is 6 x ¾ inches and weight is 1 ounce. Replacement pen cartridge Cat. No. 3134. Replacement battery Cat. No. 1104.

**Cat. No. 3133 Counter-Pen™**



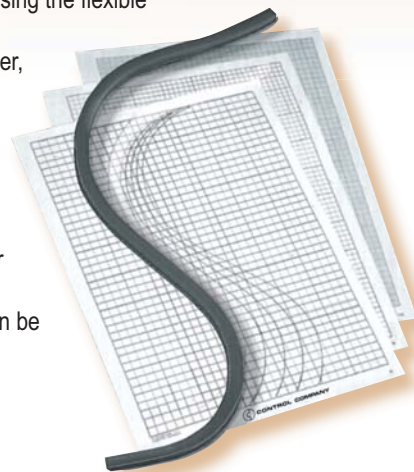
## Flexible Curve— 18 inches

### Flexible curve bends to any shape

Plot lab results, draw graphs, copy chart recordings, and produce error-free diagrams. Draw perfect curves—plot curves and fit points precisely on any graph with ease, using the flexible curve. Bend into any desired shape. Fastest way to draw spectrophotometer, quality control, and standards curves.

Adjusts to any shape. A unique raised ledge on one side prevents ink from running underneath the curve, thus eliminating smudges. The other side is flat for pencil drawings. Smooth vinyl, over a flexible core, forms to any shape curve and ensures zero resistance to pens. All curves can be drawn in an uninterrupted line.

**Cat. No. 3000 Flexible Curve**



## Copier Lab Graph Notebook

### Free lab graphs and chart paper—using your office copier

Easy-to-use book contains 22 different master lab graphs and charts. Plot lab results, quality control tabulations, ion electrode measurements, absorbance/concentration curves, and more. Enjoy the convenience of a library that includes 95% of the most frequently used laboratory graphs and charts. Eliminates time wasted in drawing forms or ordering graphs. Saves the cost of having graphs designed. Printed in ultra-opaque black to assure high-quality reproduction. Graphs supplied are linear squares (squares per inch: 4, 6, 8, 10, 20), metric squares (squares per centimeter: 5, 10), charts (columns of 11 x 40 and 11 x 52), semi log (cycles: 1, 2, 3, 4, 5), log (cycles: 1 x 1, 2 x 2, 3 x 3, 3 x 5), circular pie, triangle, and probability.

**Cat. No. 3060 Copier Lab Graph Notebook**

## Aluminum Fold-Up Cart



### Cart folds to briefcase size for easy storage

Sturdy aluminum alloy construction permits this lightweight cart to be used for loads up to 330 pounds. Move your heaviest lab chemicals, drums, and cases of glassware with this cart.

### Adjustable height

Folds up for easy storage to a compact briefcase size. Handle adjusts to two heights (27 inches and 30 inches) to accommodate all users. Telescoping platform extends for longer loads from 18 inches to 28 inches. Width is 16-inches. Supplied bungee cords keep items from slipping. Large, solid-rubber wheels make this cart extremely easy to push. Rubber bumpers on all four corners protect walls from accidental nicks. Cart weight is just 20 pounds.

**Cat. No. 3081 Aluminum Fold-Up Cart**

## Aluminum Fold-Up Hand Truck



Move cartons, chemicals, and gas cylinders easily. Aluminum alloy construction allows this lightweight unit (only 15 pounds) to move loads up to 220 pounds. Supplied bungee cords hold materials firmly in place.

### Store in a drawer

Folds to a compact size for easy storage. Height of handle is 28 inches (lower position) and 42 inches (extended). Flip-down platform size is 14 inches wide by 9½ inches. Big, smooth-rolling, solid-rubber 6½-inch-diameter tires make it easy to move heavy loads.

**Cat. No. 3082 Aluminum Fold-Up Hand Truck**



## Mini-Dolly Folding Cart

This is the ideal platform cart to move chemicals, carboys, computer paper, filing boxes, and scientific equipment. Eliminates lifting required by high-shelf carts. Cart ingeniously folds to a compact size for easy storage.

### Easy rolling

Weighs only 20 pounds, but handles up to 265 pounds. Large nonskid platform (17¼ x 25½ inches) holds materials firmly. Plastic guard on four sides protects your walls. Supplied elastic cords with "quick hooks" secure the load.

Super-glide wheels swivel for complete maneuverability. Easy-grip handle is 34½ inches long and ensures a firm hold. Constructed of high-impact ABS plastic and chrome-plated steel for durability.

**Cat. No. 3080 Mini-Dolly Folding Cart**

## Variable-Speed Peristaltic Pump

Compact, variable-flow, bi-directional, self-priming, peristaltic pumps offer precise flow deliveries. Ideal for use with conductivity flow-thru cells, liquid chromatography, collecting fractions, pH/circulating fluids or buffers in baths, and moving corrosive materials. They provide outstanding flow control and flexibility for transferring and dosing liquids. Fluid contacts only the tubing for contamination-free pumping.

Flow rates are from 0.005 milliliters per minute to 600 milliliters per minute. Variable-speed flow control and five different tubing sizes provide fine resolution with a wide flow range. The revolution of one roller delivers a precisely measured volume specific to the tubing size and motor speed. May be used with up to 120 feet of tubing for remote sampling.

Tubing may be used with fluid temperatures from  $-80$  to  $500^{\circ}\text{F}$  ( $-62$  to  $260^{\circ}\text{C}$ ). Use with food, pharmaceuticals, and other critical solutions. The tubing may be sterilized by autoclave. Unit pumps liquids and gases. Pumping dry does not harm the pump. Pump has a purge/prime switch for high-speed emptying/filling. It also reverses at the touch of a switch for ease in draining tubing. Three rollers reduce flow pulsation, prevent siphoning, and eliminate the need for check valves. There are no valves to clog, no seals to leak. The 120-VAC CSA-approved wall power supply ensures that a safe 12 volts drive the pump motor. Comes with a battery connector for portable use with any 9 or 12-volt battery. Pump draws so little power it will run for five months on a car battery. Supplied with silicone tubing, and polypropylene fittings/nipples, 115-VAC wall power supply, and an accessory battery connector (battery not supplied). Packaged in a chemical-resistant ABS plastic case. Size is  $6\frac{5}{8} \times 4\frac{3}{4} \times 4\frac{1}{2}$  inches and weight is  $1\frac{1}{4}$  pounds. One-year warranty.



- Cat. No. 3384** Variable-Speed Peristaltic Pump  
Ultra-Low Flow 0.005 to 0.900 ml/minute
- Cat. No. 3385** Variable-Speed Peristaltic Pump  
Low Flow 0.03 to 8.20 ml/minute
- Cat. No. 3386** Variable-Speed Peristaltic Pump  
Medium Flow 0.4 to 85.0 ml/minute
- Cat. No. 3389** Variable-Speed Peristaltic Pump  
Medium/High Flow 4.0 to 600 ml/minute

## Variable-Flow Chemical Transfer Pump

Designed specifically for pulseless fluid transfer at variable flow rates. Pumps from  $4\frac{1}{4}$  ounces to  $\frac{5}{8}$  gallon (120 to 2,250 milliliters) per minute. Pumps fluids with a viscosity to 200 centipoises. Suction lift is 10 feet wet, 4 inches dry. May be used with fluid temperatures from  $-40$  to  $200^{\circ}\text{F}$  ( $-40$  to  $93^{\circ}\text{C}$ ). Barbed inlet/outlet ports use any type of tubing with an inside diameter (nominal  $\frac{3}{16}$  inches).

Direct-drive engineering provides maximum motor power to the pump. "Continuous-sweep" variable control provides precise, seamless speed control. The chemical-resistant, wetted parts\*\* are Dupont Delrin<sup>®</sup>, 304 stainless steel, Viton, and Dupont Teflon<sup>®</sup>. Pump has a purge/prime switch for high-speed emptying/filling. It also reverses for ease in draining tubing. May be used with up to 120 feet of tubing for remote sampling.

Pump comes ready to use with 115 VAC UL-rated wall power supply. Packaged in a chemical-resistant ABS plastic case. Size is  $8 \times 4\frac{3}{4} \times 4\frac{1}{2}$  inches and weight is  $3\frac{3}{4}$  pounds.

**Cat. No. 3388** Variable-Flow Chemical Transfer Pump

\*\*Different wetted parts may be available upon request.







## Metric Converter

**Change lab measurements to U.S. or metric in an instant**  
Metric Converter provides fast and accurate answers for 126 types of metric conversions. Simply enter a number, press an arrow, and read the exact metric or U.S. answer with decimal point in place.

### Performs multiple conversions and calculator functions

Converts length, area, volume, weight, liquid, energy, and temperature. Also performs English (Imperial) conversions and performs all routine calculator functions.

### Easy-to-use, easy-to-read

Raised and oversized keys make the metric converter a joy to use, even for large fingers. It includes an automatic flip-open LCD cover that converts to a bench top stand, rubberized side grips for easy handling, and a bright and vivid 1/2-inch-high eight-digit LCD display that is easy to read. The converter is ultra-lightweight, just 2 ounces, and has a super-compact size, only 3 x 3 3/4 x 1/2 inches—perfect for carrying in a pocket. Replacement battery Cat. No. 1102.

**Cat. No. 1000 Metric Converter**

## Compact-Sized Metric Converter

Compact-Sized Metric Converter replaces cumbersome factor handbooks. Unit provides fast and accurate answers for 126 types of metric conversions. Simply enter a number, press an arrow, and read the exact metric or U.S. answer with decimal point in place.

### Performs conversion functions

Converts length, area, volume, weight, liquid, energy, and temperature. Also performs English (Imperial) conversions and performs all routine calculator functions.

### Easy to use, easy to read

Raised keys, large digits (1/2-inch-high), and a bright, vivid eight-digit LCD display make the metric converter easy to read and use. Supplied with 1.5 V alkaline battery and protective case. Ultra-lightweight, just 1 ounce, and super-compact size, only 4 1/4 x 1/2 x 2 1/2 inches, make it perfect for carrying anywhere. Replacement battery Cat. No. 1104.

**Cat. No. 1001 Compact-Sized Metric Converter**



# Big Digit Solar-Powered Calculator

## Environmentally friendly, never again buy a battery

Large digit calculator is solar-powered, saves batteries, and it's ideally priced. Half-inch-high digits allow effortless readings.

## View it even with your glasses off

Over-sized keys and jumbo digits make it easy on the fingers and eyes. Performs all arithmetic operations (add, subtract, multiply, divide), and features memory, percent, and floating decimal point. Supplied with attractive, protective case design. Pocket size is  $4\frac{1}{4} \times 2\frac{3}{8} \times \frac{1}{4}$  inches. Weight is 2 ounces.

**Cat. No. 6023 Big Digit Solar-Powered Calculator**



# Scientific Calculator

Scientific calculator performs 99% of the lab's routine and not-so-routine calculations. It does all arithmetic operations (add, subtract, multiply, divide). It performs over 50 functions, including science, math, common/hyperbolic trigonometric, logs/natural logs, powers, roots, reciprocals, factorials, percentages, hexadecimals, random number generation, and degree/decimal conversion. Statistical features include standard deviation, mean, sum of squares, sum of data, and much more. Three-key memory and "Forever Memory" store data when the unit is off. Automatic power-down function conserves battery life. Answers are shown on a 10-digit numerical, 2-digit exponent display.

## Easy-to-carry pocket size, easy-to-use raised keys

Handy pocket size makes it ideal to carry with you. Rugged case protects the unit. Raised keys make the calculator perfect for oversized fingers. Large, bright, vivid display is easy to read. Complete with instructions. Size is  $5 \times 3 \times \frac{1}{2}$  inches. Weight is  $1\frac{1}{2}$  ounces. Replacement battery Cat. No. 1102.

**Cat. No. 6024 Scientific Calculator**



## Credit Card Calculator/Converter

Use it as a stopwatch, time of day clock with alarm, calculator, and converter

Use in petroleum, biomedical, water/sewage, chemical, quality control, and research labs. Provides the convenience of a handbook at your fingers. Combines four functions in a single, handy device: converter, calculator, digital stopwatch, and chronograph. As a stopwatch, it times in hundredths of a second to 9 hours, 59 minutes, 59 seconds, and 99 hundredths. In the calculator mode it adds, subtracts, multiplies, and divides with floating decimal point. The chronograph displays time of day to the second in A.M./P.M. or 24-hour time. The chronograph also features a time-of-day alarm.

### Over a million scientific conversions possible

Performs, in a single keystroke, conversions in area, force, weights, length, heat, flow, energy, time, noise, viscosity, or frequency. Ideal for anyone who measures in one unit and must report in another. Over a million scientific conversions are possible. Stores nine unique factors. Once a factor is stored, it remains until changed. The conversion factor may be any number between 99999 and 0.00001 and 6-, 7-, or 8-digit number ending in 0, 00, or 000.



### Easy to use

Complete operation may be learned in less than one minute. Instructions printed on the back eliminate any need to refer to directions. Storing a conversion factor takes just two keystrokes. LCD display is eight digits. Supplied with a 1-year, silver-oxide battery, instructions, quick reference conversion labels, and clear carrying case. Size is 3 $\frac{3}{8}$  x 2 $\frac{1}{4}$  x  $\frac{1}{4}$  inches. Weight is 1 ounce. Replacement battery Cat. No. 8717.

**Cat. No. 6030 Credit Card Calculator/Converter**

## 12-Digit Computer

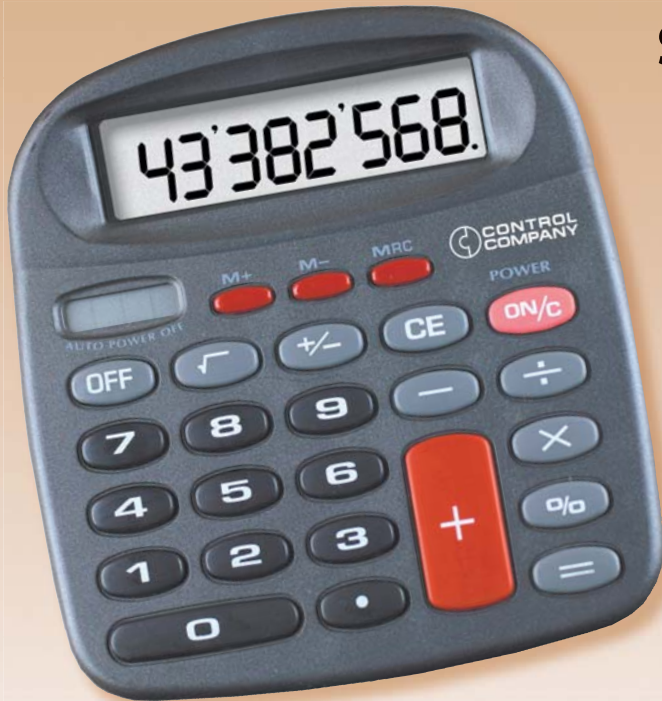
Calculator displays entire answer to 12 digits

Twelve digits end rounding errors and confusing scientific notation. Oversized, raised keys and jumbo digits ( $\frac{1}{2}$ -inch-high) make it easy on the fingers and eyes. Functions include arithmetic calculation, percent, memory, floating decimal, ratios, and grand totals. Tough ABS plastic case is drop-proof and chemical-resistant. Supplied with a solar panel and silver-oxide battery. Pocket size is 4 $\frac{1}{2}$  x 2 $\frac{1}{2}$  x  $\frac{5}{8}$  inches. Weight is 3 ounces. Replacement battery Cat. No. 1102.

**Cat. No. 6029 12-Digit Computer**







## Solar Desktop Calculator

Solar Desktop unit is a big-digit desktop calculator which features arithmetic functions (add, subtract, multiply, divide), percent, 3-key memory, square root, and floating decimal point. Solar-powered unit can be read in any light. Performs chain calculations. Digit height is  $\frac{3}{4}$  inches. Large 8- or 12-digit display is angled to eliminate reflected glare. Jumbo digital display allows effortless readings even with your glasses off. Oversized keys and perfect spacing are easy on the fingers. Tough ABS plastic case is ideal for rough lab use. Feet protect the unit from spills. Supplied complete with instructions. Size is  $4\frac{1}{2} \times 6\frac{1}{2} \times \frac{3}{16}$  inches. Weight is 4 ounces.

**Cat. No. 6031 Solar Desktop Calculator (8-digits)**

**Cat. No. 6032 Solar Desktop Calculator (12-digits)**

The 12-digit unit permits calculating numbers as large as 999,999,999,999 and as small as .000000000001 without confusing scientific power notations or symbols.

## Clipboard with calculator

### Convenient storage possibilities

Clip securely holds forms, notes, and schedules. Attached pen is always at the ready. Never look for your tape measure again; 5-foot tape measure is permanently attached. Hole allows unit to be hung on the wall.

### Complete calculator and more

Eight-digit, solar-powered calculator performs 99% of the lab's routine calculations. Functions are: add, subtract, multiply, divide, chain calculation, constants, powers, reciprocal values, percent calculations, square root, and memory. Size is 14 x 9 inches. Weight is 11 ounces.

**Cat. No. 3421 Clipboard with calculator**



# Traceable® Digital Calipers

## Designed for the lab

Traceable® Calipers make length/diameter measurements three ways—outside, inside, and depth. Digital display models measure to 8-inches (200mm). At the touch of a button units switch from inches to millimeters.

## Zeros at any point

Zero button instantly sets unit to zero when jaws are at any position. This permits setting a Floating Zero™ or reference point to read “greater than or less than results with a minus sign displayed” without calculations. Ergonomic design precision calipers are ideal for measuring the outside diameter of stoppers, the inside diameter of tubing, and the depth of vials. Depth bar extends from the end of caliper. Fine adjustment thumb roller improves reading speeds and position-holding lock screw sets length. Easy-to-read jumbo digital display is 1/8-inch-high.

## Traceable to NIST for accuracy

No lubrication is ever required on the ultra-smooth slide bar. Runs on the supplied battery for 10,000 hours. Made of durable acid resistant, hardened stainless-steel or strong composite carbon fiber. To assure accuracy an individually serial-numbered Traceable® Certificate is provided from our ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology). Replacement battery Cat. No. 1039.



Specifications Chart

Cat. No.	3415	3416	3417	3418
Material	Stainless Steel		Carbon Fiber	
Measuring range	6"/150mm	8"/200mm	4"/100mm	6"/150mm
Resolution	0.0005 inch/0.01mm		0.01 inch/0.1mm	
Accuracy	±0.001 inch or ±0.03mm.		±0.01 inch or ±0.2mm.	
Depth Bar	Yes		No	
Thumb roller/Lock screw	Yes		No	
Non-metallic/Non-Conductive	No		Yes	
Traceable® Certificate	Yes		Yes	
Dimensions	9 x 3 inches	11 x 3 inches	7 x 2½ inches	9½ x 3 inches
Weight	5 ounces	6 ounces	1 ounce	2 ounces

# Super-Helpful view of a Traceable® Certificate

## How to achieve absolute accurate results

Order Traceable® products today. Each one is serial numbered, each one is supplied with an individual Traceable® Certificate.

Accredited by A2LA (The American Association for Laboratory Accreditation) dedicated to "one test accepted everywhere, one accreditation accepted everywhere".

A2LA is your assurance of **internationally recognized technical laboratory competence**. Traceable® Certificates are recognized by ILAC and MRA.

Displays **catalog number** for complete product reference

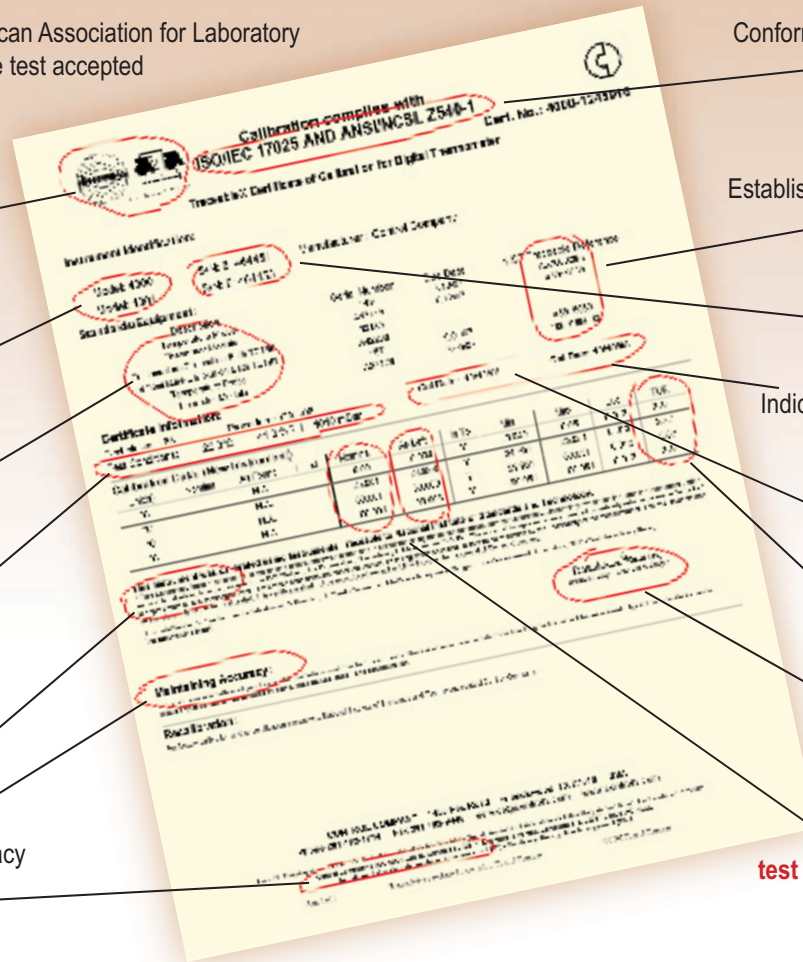
Calls out the **test equipment** used for calibration

Reports **environmental conditions** at the time of measurement

Spells out **test uncertainty ratio** and **confidence level**

Lists **specific conditions** that may affect product's accuracy

Supplied by an **ISO 9001** quality certified facility



Conforms to universally recognized **ISO 17025 Standard**, a requirement for all serious ISO 9000 facilities

Establishes with reference numbers the **"unbroken chain"** of traceability to NIST

Displays **serial number** for total product identification

Indicates **Calibration Due Date**, a benchmark for continued instrument accuracy

Specifies **Calibration Date** when the unit was tested

Spells out **test uncertainty ratio** and **confidence level**

Signed by the **Technical Manager**

Provides **measurement test results** for your specific unit

## How to make measurements with absolute accuracy

Your lab's test results are important. That's why accurate instrument performance is our top priority. Before it's shipped to you, every single Traceable® product is calibrated by our ISO 17025 calibration laboratory accredited by A2LA. Every product is supplied from our ISO 9001, DNV quality-certified facility.

The Traceable® Certificate is included with every product. Precise accuracy is provided from the moment you open the box. Every Traceable® product is supplied with a Traceable® Certificate indicating accreditation by A2LA (The American Association for Laboratory Accreditation).



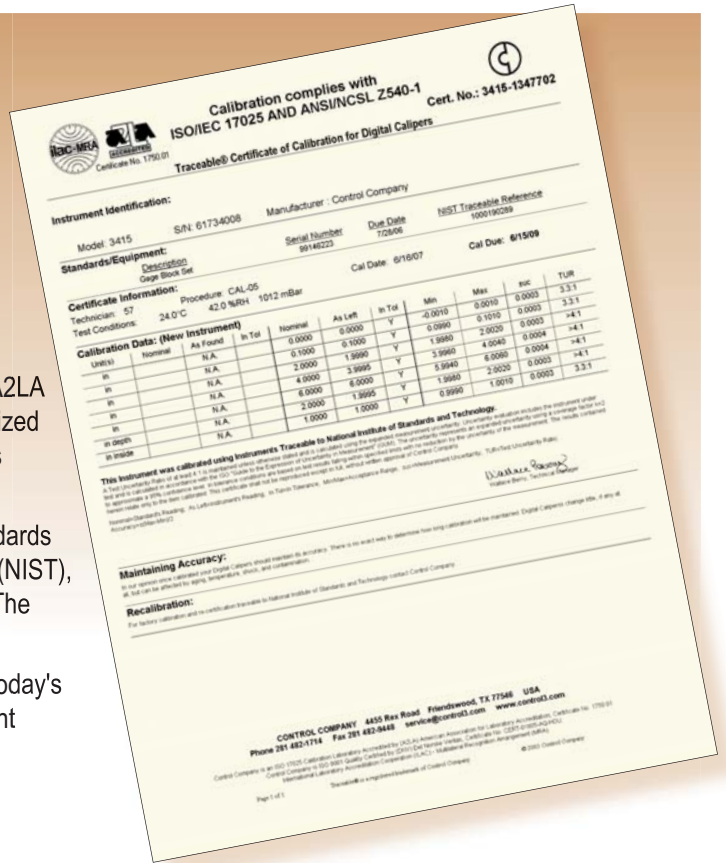
# Traceable® Calipers

All Traceable® products are provided with a Traceable® Calibration Certificate from our ISO 17025 calibration laboratory. Caliper certificates are accredited by the American Association for Laboratory Accreditation (A2LA).

A2LA is widely recognized internationally through bilateral and multilateral agreements and through its participation in the International Laboratory Accreditation (ILAC) and Multilateral Recognition Arrangement (MRA). Through Control Company's A2LA Accreditation, Traceable® Certificates are internationally recognized by accreditation agencies and governments in over 75 countries throughout the world.

Traceable® Certificate indicates the product is traceable to standards provided by the National Institute of Standards and Technology (NIST), a U.S. Government agency within the Commerce Department. The Traceable® Certificate complies with ANSI/NC SL Z540-1.

A Traceable® Certificate includes all of the information to meet today's stringent accreditation demands, CLIA requirements, government specifications, and ISO 9000 certifications.



## ISO 9001 Quality-Certified

Control Company is an ISO 9001 Quality-Certified company. This provides you with the assurance that you are supplied with only the finest and most reliable products. Control Company is recognized worldwide for superb quality and innovative products. We are one of the world's market leaders for digital equipment. Control Company is pleased to offer you the extra confidence that ISO 9001 Certification brings to every Control product. (DNV Certificate No. CERT-01805-2000-AQ-HOU-RAB)

## ISO 17025 Calibration Laboratory Accredited

Control Company is an ISO 17025 calibration laboratory accredited by The American Association for Laboratory Accreditation (A2LA) meeting the requirements of ISO/IEC 17025 and ANSI/NC SL Z540-1. This ensures that you are supplied accurate instruments, individually tested to be traceable to NIST, and a Traceable® Certificate (A2LA Certificate No. 1750.01).



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