TRACEABLE® PRODUCTS

DESIGNED FOR YOUR LAB





Contents

Conductivity weter	ა-ა
Conductivity Standards	6
Electrode Holder	5
pH Buffer Standards	7
Snilltrav™	7

Traceable® Products

ISO/IEC 17025 Calibration laboratory

All Traceable® products are provided with a Traceable® Calibration Certificate from our ISO/IEC 17025 calibration laboratory. Timer, thermometer, hygrometer, barometer, tachometer, gauge pressure, differential pressure, scale, balance, conductivity cell, conductivity solution, conductivity meter, UV light meter, and caliper certificates are accredited by American Association for Laboratory Accreditation (A2LA).

A2LA is widely recognized internationally through bilateral and multilateral agreements and through its participation in International Laboratory Accreditation (ILAC) and Multilateral Recognition Arrangement (MRA). Through A2LA Accreditation, Traceable® Certificates are internationally recognized by Accreditation Agencies and Services in over 75 countries throughout Europe, Middle East, North America, South America, Asia, and Africa.

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

Certified Reference Materials, ISO Guide 34

ISO Guide 34 provides highest achievable level of quality assurance, documentation, and accuracy for chemical standards. All standards are directly traceable to NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory.

Certified Reference Materials (CRM) are produced in an accredited manufacturing facility, our ISO Guide 34 Accredited Certified Reference Material (CRM) Producer. Additional certifications include ISO 31 (certificate content) and ISO 35 (statistical analysis). ISO Guide 34 Certified Reference Material (CRM) Producer is accredited by American Association for Laboratory Accreditation (A2LA Certificate No. 1750.02).

ISO 9001 Quality Certified

All products are provided from our ISO 9001 Quality Certified Company. This quality certification provides users with assurance that they receive only finest and most reliable products. It is worldwide recognition of superb quality for innovative electronic products. ISO 9001 Certification insures that every product is checked and rechecked to provide for absolutely highest quality. In addition, ISO 9001, in contrast to other ISO 9000 certifications, requires that design phase of every product be included in quality requirements. The 9001 certification provides that quality is designed into every product beginning with first drawing. All products are produced under ISO 9001 and certified by DNV (Det Norske Veritas.)

Trademark reference: Traceable® is a registered trademark of Control3.

Through A2LA Accreditation, Traceable® Certificates are internationally recognized by the following Accreditation Agencies and Services in these countries:



Traceable® Bench Conductivity Meter

Easy-to-use—simply turn on, insert probe and read results

- Fulfill all official lab analysis regulations for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA. APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Unit automatically encompasses all ranges and selects the most appropriate for the current reading
- Control allows user to store four calibration points using solution standards
- Supplied: adaptor, probe replatinizing current, probe holder arm, battery, Traceable® Certificate

	Cat. No.	Measurement	Range	Range				Accuracy
	4163	Micromhos (microsiemens)	0.01 to 20.00	0.1 to 200.0	1 to 2000	10 to 20000	100 to 200000	
		Megohms	0.001 to 2.000	0.01 to 20.00				±0.3% +1 digit
		Dissolved Solids/ Parts Per Million	0.1 to 20.00	1 to 200	10 to 2000	100 to 20000		

Accessories

4062	Replacement Conductivity Probe– Glass, K=1; Probe range: 0.05 to 200,000 micromhos
4061	Accessory Conductivity Probe– Unbreakable Epoxy, K=1; Probe range: 1.0 to 200,000 micromhos
4071	Accessory Battery Eliminator, Adaptor 115 VAC/60 Hz

Traceable® Portable Conductivity Meter

Quick answers, accurate results

- Automatic range changes; automatic and manual temperature compensation
- Four unique calibration points may be entered into memory utilizing solution standards; settings are stored even when unit is off
- · Results are displayed into conductivity (microsiemens) and resistivity (megohms), dissolved solids (parts per million), concentration (user-defined units), salinity (oceanographic units) and temperature (F/C)
- Supplied: probe, cable, battery, Traceable[®] Certificate

Cat. No.	Measurement	Range					Accuracy
	Micromhos (microsiemens)	0.01 to 20.000	0.1 to 200	1 to 2000	10 to 20000	100 to 200000	±0.3% +1 digit (0.1 to 1999 Micromhos)
4063	Megohms	0.001 to 2.000	0.01 to 20.00				
	Dissolved Solids/ Parts Per Million	0.1 to 20.00	1 to 200	10 to 2000	100 to 20000		



4062	Replacement Conductivity Probe- Glass, K=1; Probe range: 0.05 to 200,000 micromhos
4061	Accessory Conductivity Probe – Unbreakable Epoxy, K=1; Probe range: 1.0 to 200,000 micromhos

Traceable® Conductivity Meter

For routine analysis, quality control, and research—automatic temperature compensation

- · Ideal for verifying purity of water from stills, deionizing, and reverse osmosis equipment
- Supplied: probe, cable, battery, Traceable[®] Certificate

Cat. No.	Measurement	Range	Accuracy	
4070	Micromhos (microsiemens)	0.1 to 200.0	±0.4% full scale	
4070	Megohms	2.00 to 20.00		
Accessories				

Replacement Probe– Glass, K=1
Accessory Probe– Unbreakable Epoxy, K=1
Accessory Glass Probe– K=0.1, Increases sensitivity of low range 10 times
Accessory Probe Unbreakable Epoxy– K=10, Increases sensitivity of high range 10 times
Accessory Micro-Sampler and Micro Flow-Through Cell, with volume of 2 ml, K=0.2
Accessory Battery Eliminator, Adaptor 115 VAC/60 Hz

To assure accuracy, all Traceable* Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable* Certificate is Traceable to NIST for accuracy: provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).







Traceable® Expanded Range Conductivity Meter

Accurate answers in five seconds

- Ideal for checking water purity in stills, deionizers, reverse osmosis; testing glassware rinsing, measuring total dissolved solids, and making solutions
- Meter automatically selects proper range and displays the exact answer
- Compatible with all accreditation analysis requirements—perfect for labs wanting to maintain accreditation
- Unit fulfills requirements for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Supplied: probe, batteries, carrying case, computer output, Traceable® Certificate

(Cat. No.	Measurement	Range	Accuracy
4	1360	Conductivity	0.00 to 19.99 microsiemens; 0.0 to 199.9 microsiemens; 0 to 1999 microsiemens; 0 to 19.99 millisiemens; 0 to 199.9 millisiemens	±1.0% +1 digit
100		Dissolved Solids	0.00 to 9.99 ppm; 0.0 to 99.9 ppm; 0 to 999 ppm; 0 to 9.99 ppt; 0 to 99.9 ppt	

Accessories				
4361	Replacement Conductivity Probe— Glass/Platinum, K=1; probe range: 0 to 200,000 microsiemens			
4362	Conductivity Probe— Unbreakable Epoxy, K=1; probe range: 0 to 200,000 microsiemens.			
8045	Data Acquisition System (for additional information see page 68)			
1363	9V Adaptor (for international information see page 79)			



Traceable® Dual-Display Conductivity Meter

Two displays simultaneously show conductivity readings and temperature measurements

- · Simultaneously displays temperature and conductivity
- Probe: 6 x ½" diameter, 40" cable
- Supplied: epoxy probe, Traceable® Certificate, battery, computer output

Cat. No.	Conductivity Ranges	Accuracy	Temperature Ranges	Temperature Resolution	Temperature Accuracy
4169	0.0 to 199.9 micromhos 0.001 to 1.999 millimhos 0.01 to 19.99 millimhos ±(2% of full scale plus 1 digit)		32 to 140 °F (0.0 to 60.0 °C)	0.1°	±0.8°C
Accessories					
Data Acquisition System (for additional information, see page 68)					
4325	7085 Universal Wireless Radio-Signal Transceivers (for additional information, see page 68)				
7085					
4138					

Temperature

Temperature

Temperature



Traceable® Pure H₂O Tester

Easy-read large digit display

- · Meets all lab certification requirements
- Tests water from stills, demineralizers, deionizers, reverse osmosis
- Instant response
- Supplied: epoxy probe, 40" cable, carrying case, battery, Traceable® Certificate

Cat. No.	Range	Accuracy
4168	0.1 to 20,000 (microsiemens)	±0.4% of full scale

Traceable to NIST for accuracy:

To assure accuracy, all Traceable* Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable* Certificate is provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Traceable® Conductivity/TDS/Salinity Pens

Easiest unit ever designed for routine analysis and quality control

- Three units provide for conductivity, conductivity/total dissolved solids, and salinity
- Simply turn on, insert, and simultaneously read results and temperature-eliminates operator technique errors
- Constructed for severe lab or harsh plant environment use
- · Arrow key allows fast setting to calibration standards that are maintained even when unit is off
- Pens fulfill requirements for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Supplied: Traceable® Certificate, battery

Cat. No.	4365	4366	4367
Conductivity Range	0 to 1999 microsiemens; 0 to 19.99 millisiemens	0 to 1999 microsiemens; 0 to 19.99 millisiemens	-
Dissolved Solid Range	_	0 to 1999 parts per million; 0 to 19.99 parts per thousand	-
Salinity Range (NaCL)	_	_	0.00 to 10.00 ppt; 10.1 to 70.0 ppt
Resolution	1 microsiemen	1 microsiemen/ 1 part per million	0.01 ppt
Accuracy	±1% full scale + 1 digit	±1% full scale + 1 digit	±2% full scale + 1 digit
Temperature Range	0.0 to 50.0°C/ 32.0 to 122.0°F	0.0 to 50.0°C/ 32.0 to 122.0°F	0.0 to 50.0°C/ 32.0 to 122.0°F
Temperature Resolution	0.1°	0.1°	0.1°
Temperature Accuracy	±0.5°	±0.5°	±0.5°
Settable Temp. Coefficient	0.0 to 4.0% per °C	0.0 to 4.0% per °C	-
Automatic Temp. Compensation	20 and 25°	20° and 25°	25°
Total Dissolved Solids Factor	-	0.4 to 1.00	-
Use with Calibration Standards	400 microsiemens to 19.99 millisiemens	400 microsiemens to 19.99 millisiemens; 400 ppm to 19.99 ppt	0.20 to 7.00%



pH/Conductivity Universal Flow-Thru Adaptor

Allows constant monitoring of flowing fluids with a standard dip probe

- Product can be used continuously at temperatures from -100 to 500F and is designed to provide a secure, leakproof seal
- Connectors accept tubing with 1/16, 3/32, 1/32 and 1/8-inch diameter

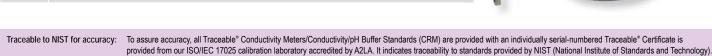
Cat. No.	Flow rate	Size
4167	0.001 to 50 ml per minute	Accepts probe: 0.5-inch (12 mm); Accepts tubing: 0.0625", 0.0937", 0.0313" and 0.1875" I.D.

Electrode Holder

Holds electrodes safely and securely in any position

- Fingertip control raises, lowers, and pivots 360 degrees allowing placement of the electrode holder wherever desired
- Holds electrodes safely and securely in any position
- Weighted base stabilizes holder and electrode arm articulates at three points so electrodes always remain vertical

Cat. No.	Supplied
3090	21-inch metal arm, 8-inch diameter metal base, probe holder

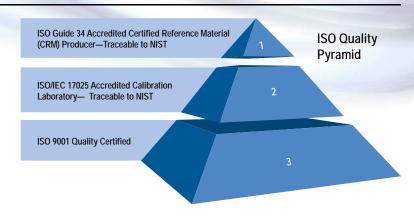




Traceable Conductivity and pH Buffer Standards

Traceable to NIST for accuracy

To assure accuracy an individually serial-numbered Traceable® Certificate is supplied from manufacturer with both bottles and One-Shots™ to indicate traceability to standards provided by NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory. A2LA accredited certification provides highest achievable level of quality assurance, documentation, and accuracy. Certified Reference Materials are produced by an A2LA accredited ISO 34 certified reference material producer and by an A2LA accredited ISO/IEC 17025 calibration laboratory. Additional accreditations include ISO 31 (certificate content), and ISO 35 (statistical analysis), and ISO 9001 (certified quality manufacturer).



Traceable® Conductivity Standards (CRM)

Highest accuracy available assuring reliable results

- · Certified Reference Material
- 100% compatible with all conductivity meters
- Each bottle is labeled for calibrating conductivity, resistivity and dissolved solids
- Accuracy at 25°C is ±0.25 microsiemens for 1, 5, 10 microsiemen solution or ±0.25% for other solutions or the uncertainty noted on the certificate
- Supplied: 16 ounce container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate

Traceable® One-Shot™ Conductivity Standards (CRM)

Calibration within disposable container eliminates contamination

- Certified Reference Material
- 100% compatible with all conductivity meters
- Accuracy: certificate stated uncertainty, or ±0.25 microsiemen or ±0.25%
- Supplied: 6-pack 100 ml container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate





4175 4065

	Traceable® Conductivity Stand	dards, Certified Reference Material Accre	edited ISO Guide 34, ISO Guide 35, ISO Guide	e 31, ISO/IEC 17025	
Cat. No. 16 oz. bottle	Cat. No. Individually Tested 16 oz. bottle	Cat. No. 100 ml One-Shot™ (6-pack)	Microsiemens/Micromhos	Megohms	TDS/PPM
4274	4574	-	1	1	0.66
4270	4570	4271	5	0.2	3.3
4065	4565	4175	10	0.1	6.6
4066	4566	4176	100	0.01	66
4067	4567	4177	1000	0.001	666
4173	4573	4174	1413	0.00071	933
4068	4568	4178	10000	0.0001	6666
4069	4569	4179	100000	0.00001	66666
4161	4561	4580	150000	0.000006	100000
4162	4562	4581	200000	0.000005	133333
_	_	4172	Assortment (one each of above One-Shot™,	except 4271, 4580, 4581)	

Traceable to NIST for accuracy:

To assure accuracy, all Traceable* Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable* Certificate is provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Traceable® pH Buffer Standards (CRM)



The most accurate pH Standards available anywhere

- 100% compatible with all makes and instruments and electrodes
- Accuracy at 25°C is ±0.010 pH
- Select values manufactured to IUPAC (International Union of Pure and Applied Chemistry) formulation—features long term buffer stability and buffer resistance to temperature changes during pH meter calibration
- Only Certified Reference Material meets all test requirements for Federal, State, and local agencies
- Triple-layered proprietary packaging—aluminum foil, PET and low-density polyethylene bag—prevents contamination by permeable gases and provides 2-year shelf life
- Each 16 ounce bottle or six pack single-use 100ml container is supplied with an individual temperature compensation chart, traceability information, Traceable® Certificate

Traceable® pH Standards Certified Reference Material				
Size	Cat. No.	pH Value		
	4280	4.005		
16 oz.	4281	7.000		
bottle	4286	7.416		
	4282	10.012		
	4287	4.005		
100 ml	4288	7.000		
One-Shot™ (6-pack)	4285	7.416		
	4289	10.012		



Redi-Stor[™] Conductivity Probe Storage Solution

Eliminates probe contamination and preserves probe cleanliness

- Redi-Stor™ is ideal solution for storing conductivity probes
- It preserves probe's cleanliness, eliminates growths found when storing in water only, and maintains probe for immediate use with no conditioning
- Supplied: 16 ounce container, step-by-step calibration instructions, individual temperature compensation chart, Traceable® Certificate

Cat. No.	Size
4170	16 oz. bottle



Workstation Spilltray™ and Drying Rack

Chemical-resistant containment tray

- Easel design permits drying of odd shaped items
- Plastic grid cushions and protects against breakage and scratches
- Grid cuts drying time in half by permitting air circulation
- Entire tray is dishwasher safe

Cat. No.	Size
3450	161/2 x 13 x 5/8 inches



Traceable to NIST for accuracy:

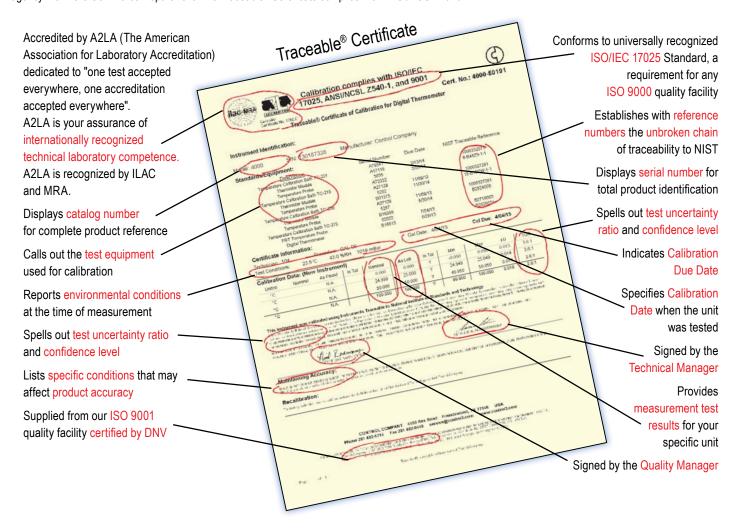
To assure accuracy, all Traceable* Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable* Certificate is provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Traceable® Certificate assures accurate lab tests

All Traceable® products are provided with a Traceable® Calibration Certificate from our ISO/IEC 17025 calibration laboratory. Thermometer, timer, and humidity 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, governments, industrial companies, biomedical companies, universities, and hospitals in over 75 countries throughout Europe, the Middle East, North America, South America, Asia, and Africa.

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/NCSL Z540-1.





Control Company • 4455 Rex Road • Friendswood, Texas 77546 • USA

Control Company • Drawer 58307 • Houston, Texas 77258 • USA

Email sales@control3.com • www.control3.com

Telephone 281 482-1714 • Fax 281 482-9448

ISO 9001 Quality Certified by DNV • ISO/IEC 17025 Calibration Laboratory Accredited by A2LA • ISO Guide 34 Certified Reference Material Producer Accredited by A2LA