TRACEABLE®
PRODUCTS
CATALOG

novatech
INTERNATIONAL

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Contents:

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

Albania DPS	**Argentina** OAA	**Armenia** SARM	**Australia** NATA	**Austria** BMWA	**Belarus** Gosstandart	**Belgium** BELAC (BKO and BELTEST sections)	**Brazil** CITAC, CGCRE/ INMETRO
Canada CAEAL, QMP-LS, SCC	**Chile** INN	**China, Hong Kong** HKACL, HKAS	**China, People's Republic of** CNAL	**Croatia (Hrvatska)** HAA, HMD	**Cuba** ONARC	**Cyprus** CYS	**Czech Republic** CAI
Denmark DANAK	**Ecuador** OAE	**Egypt** EGAC, NLAB	**El Salvador** NCST	**Finland** FINAS	**France** COFRAC	**Georgia** NBA	**Germany** DACH, DAP, DAR, DASMIN, DATech, DKD, EUROLAB
Greece ESYD	**Guatemala** OGA	**Hungary** EURACHEM, NAT	**India** NABL	**Indonesia** KAN	**Iran** IAS	**Ireland** INAB	**Israel** ISRAC
Italy SINAL, SIT	**Japan** IAJapan, JAB, JLA	**Jordan** JISM	**Kazakhstan** CAC-MAS-Q	**Kenya** KENAS	**Korea, Republic of** KOLAS	**Kyrgyzstan** Kyrgyzstandard	**Luxembourg** OLAS
Malaysia DSM	**Mauritius** MAURITAS	**México** EMA, IAAC	**Moldova, Rep/.** Center of Accreditation in the field of Conformity Assessment of the Republic of Moldova	**Mongolia** MNCCI	**Morocco** MCA	**Netherlands** AEAO, RvA	**New Zealand** IANZ
Norway NA, NORDTEST	**Pakistan** PNAC	**Philippines** BPSLAS	**Poland** PCA	**Portugal** IPAC	**Romania** RENAR	**Russian Federation** AAC Analitica, RTO	**Singapore** SAC
Slovakia (Slovak Rep) SNAS	**Slovenia** SA	**South Africa** NLA, SADCA, SANAS	**Spain** ENAC	**Sweden** SWEDAC	**Switzerland** SAS	**Taiwan** TAF	**Tajikistan** The Agency for Standardization, Metrology, Certification and Trade Inspection under the Ministry of Economics and Trade of the Republic of Tajikistan
Thailand BLQS-DMSc, TLAS/TISI	**Trinidad & Tobago** TTBS	**Tunisia** TUNAC	**Turkey** TURKAK	**Ukraine** NAAU	**United Arab Emirates** DAC, ENAS	**United Kingdom** IFIA, UKAS	
United States of America NIST	**Uzbekistan** UZSTANDARD	**Vietnam** VILAS					

TRACEABLE® PRODUCTS

"If you can't measure it accurately,
you can't manage it efficiently…"

Traceable® Monitoring Solutions
Fill In The Unknowns

Download Recorded Data

Real-Time Data Alerts

TRACEABLELIVE 5m ago

From TraceableLive Alarm Notification Service: One of the devices in your account has issued an alarm. Here is the alarm information:

MESSAGES 5m ago

+1 (867) 867-5309
ALARM:LOW_BATTERY
S/N: 12356789
Name: Traceable® Products Main
Location: Lab O

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

TraceableLIVE® cloud-based system monitors your **CRITICAL ENVIRONMENTS** and lets you know if anything goes wrong by sending you a Text, E-mail, or Push Alert.

When you can't be there, TraceableLIVE® **ALERTS YOU** via your smartphone, tablet, or computer at any time, anywhere...

Once the setup is complete you can:

- Set alarm parameters on device remotely
- View current conditions anywhere
- Generate data reports in real time
- Assign user access for the whole team

TraceableLIVE® Subscription cost Through
traceablelive.com

# of devices	Monthly	Annually	SMS (Text)–Add on
1-9 devices	$8.99/device	$100/device	+$2 per device/month
10+ devices	$7.20/device	$80/device	+$2 per device/month

TRACEABLE®
PRODUCTS

Monitoring Made Easy with Real-time Text, E-mail and Push Alerts

Get Connected • Get Notified • Get TraceableLIVE®

TraceableLIVE® provides simple, digital monitoring of
Refrigerator/Freezers • ULT Freezers • Vaccines • Chemical Storerooms • Liquid Nitrogen Storage • Controlled Warehouses

TraceableLIVE® Wi-Fi Connected Digital Datalogger Thermometers with Real-Time Alerts

- Monitor locally or remotely temperature and more—connects to existing Wi-Fi
- Alerts: temperature alarm, connectivity interruption, low battery
- °F/°C switchable
- Cloud-based applications—no local software required; web, Android, iOS data visibility
- Receive MOBILE PUSH / E-MAIL / TEXT notifications
- To access data and remote notifications require TraceableLIVE® subscription

- Continuous data transmission & monitoring using SSL-encrypted SECURE connection
- Unlimited scalability—use TraceableLIVE® in individual labs or an entire network of facilities
- Multiple point accredited temperature calibration—traceable to NIST
- Supplied: Quick Start Guide, batteries, magnets, Velcro®, wall mount, Traceable® Certificate

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TraceableLIVE

VFC COMPLIANT ✓

6500   **6501**

TraceableLIVE® Wi-Fi Refrigerator/Freezer Datalogging Thermometers

Ideal for monitoring temperatures or critical samples and reagents in refrigerators & freezers

- Meets current CDC requirements and additional recommendations for vaccine storage and monitoring
- Multiple point accredited temperature calibration (–40°C, 0°C, 50°C)—traceable to NIST

Cat. No.	Range	Accuracy	Resolution	Probes
6500				2 Bottles (patented)
6501	–50.00 to 60.00°C	±0.25°C	0.01°	1 Bottle & 1 Bullet™
6502	(–58.00 to 140.00°F)			2 Bullets™
6503				2 Stainless-steel

6510   **6511**

TraceableLIVE® Wi-Fi Ultra-Low Datalogging Thermometers

Designed for ULT freezers—monitor temperatures below –80°C ensuring critical samples are not compromised

- Ideal for monitoring ultra-low temperature freezers
- Multiple point accredited temperature calibration (–80°C, –40°C, 0°C, 100°C)—traceable to NIST

Cat. No.	Range	Accuracy	Resolution	Probes
6510	–90.00 to 105.00°C	±0.1°C	0.01°	1 Platinum RTD sensor, Stainless-steel 316 probe
6511	(–130.00 to 221.00°F)			2 Platinum RTD sensors, Stainless-steel 316 probes

6512   **6513**

TraceableLIVE® Wi-Fi LN2 Datalogging Thermometers

Best for monitoring temperatures in liquid nitrogen storage dewars—receive notifications for temperatures down to –200°C

- Ideal for monitoring long term sensitive, irreplaceable biologicals
- Multiple point accredited temperature calibration (–196°C, –80°C, 0°C and 100°C)—traceable to NIST

Cat. No.	Range	Accuracy	Resolution	Probes
6512	–200.00 to 105.00°C	±0.25°C	0.01°	1 Platinum RTD sensor, Stainless-steel 316 probe
6513	(–328.00 to 221.00°F)			2 Platinum RTD sensors, Stainless-steel 316 probes

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TRACEABLE® PRODUCTS

TraceableLIVE® Wi-Fi Datalogging Hygrometers/Thermometers

Ideal for monitoring humidity and temperatures in controlled storage laboratories, warehouses, storerooms, and environmental chambers

- Ambient probe and external cable probe units available
- Alerts: humidity, temperature, connectivity interruption, and low battery

Cat. No.	Parameters	Range	Accuracy	Resolution	Probes
6520	Humidity	0.0 to 100%RH (non-condensing)	±3% (20 to 80% RH), ±5% otherwise	0.1% RH	1 ambient dongle sensor
6521	Temperature	0.00 to 55.00°C (32.00 to 131.00°F)	±0.4°C	0.01°	1 cable probe sensor

6520   **6521**

TraceableLIVE® Wi-Fi Datalogging Barometer

Designed to monitor plants, blood gas analysizers or any environment where barometric pressure conditions are critical

- Place entire unit inside an environment
- Alerts: barometric pressure, temperature, humidity, connectivity interruption, and low battery

Cat. No.	Parameters	Range	Accuracy	Resolution	Probes
6529	Barometric Pressure	500 to 1100 millibars (mb)	±4 mbar	1 mbar	1 ambient dongle sensor
	Temperature	0.00 to 55.00°C (32.00 to 131.00°F)	±0.4°C	0.01°	
	Humidity	0 to 100% RH (non-condensing)	±3% RH (5-75%), otherwise ±5% RH	0.01% RH	

TraceableLIVE® Wi-Fi Datalogging CO_2 Meter

Best for monitoring CO_2, temperature and humidity in greenhouses, micro labs, biofuel research and other environments

- Ambient unit with dongle—place entire unit inside a greenhouse or other environments
- Cable probe is ideal for CO_2 incubators
- Alerts: CO_2, temperature, humidity, connectivity interruption, and low battery

Cat. No.	Parameters	Range	Accuracy	Resolution	Probes
6525	CO_2	0 to 10,000 ppm	4% reading + 100 ppm	1 ppm	1 ambient Dongle sensor; 1 cable sensor, 1 meter cable
	Temperature	0.00 to 50.00°C (32.00 to 122.00°F)	± 0.4°C	0.01°	
	Humidity	0.00 to 95.00% (non-condensing)	±3% RH (5 to 75%) otherwise ±5% RH	0.01% RH	
6526	CO_2	0.00 to 20.00%	4% reading + 1% full scale	0.01%	1 ambient Dongle sensor; 1 cable sensor, 1 meter cable
	Temperature	0.00 to 50.00°C (32.00 to 122.00°F)	± 0.4°C	0.01°	
	Humidity	0.00 to 95.00% (non-condensing)	±3% RH (5 to 75%) otherwise ±5% RH	0.01% RH	

6526   **6525**

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Hassle-Free Data Retrieval
Track Conditions • Download Readings • Analyze Data Results

Traceable® Excursion-Trac™ Datalogging Refrigerator/Freezer Thermometers

Datalogging thermometer with user-defined time intervals

- User-defined time intervals, MIN/MAX and current conditions displayed on LCD, and °F/°C switchable
- Stores up to 10 unique alarm events
- Rolling memory structure, maintains most recent 525,600 temperature observations
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if the unit returns to non-alarm conditions
- 6426 and 6427 are ideal for monitoring ultra-low temperature freezers and include a PTFE cable
- Status indicators—low battery, memory full, USB data transfer, active alarm state
- Supplied: stand, Velcro®, magnetic strips, wall mount, batteries, Traceable® Certificate

Bottle Probe   Bullet™ Probe   Vaccine Probe   Plastic Bottle Probe

Platinum RTD sensors, Stainless-steel 316 Probe

Cat. No.	Temperature Range	Resolution	Accuracy	Probe
6430				1 bottle (patented)
6431				2 bottles (patented)
6432				1 Bullet™
6433				2 Bullets™
6434				1 bottle & 1 Bullet™
6435	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 stainless-steel
6436				2 stainless-steel
6437				1 vaccine bottle (5ml)
6438				2 vaccine bottles (5ml)
6450				1 plastic bottle
6451				2 plastic bottles
6426	−90.00 to 105.00°C (−130.00 to 221.00°F)	0.01°	±0.2°C	Platinum RTD sensors, 1 stainless-steel 316 Probe
6427		0.01°	±0.2°C	Platinum RTD sensors, 2 stainless-steel 316 Probes

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**TRACEABLE®
PRODUCTS**

Traceable® Memory-Loc™ Datalogging Refrigerator/Freezer Thermometers

Datalogging thermometer that can be used in 21 CFR 11 environments

- User-defined time intervals, MIN/MAX and current conditions displayed on LCD, and °F/°C switchable

- Meets current CDC requirements and additional recommendations for vaccine storage and monitoring

- Use in 21 CFR 11 environments, raw data is locked and may not be cleared/ changed on base unit

- User-defined logging interval from one observation/minute to one observation/24 hours

- Stores up to 10 unique alarm events, capable of storing over 1 million temperature readings

- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed

- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if the unit returns to non-alarm conditions

- 6428 and 6429 are ideal for monitoring ultra-low temperature freezers and include a PTFE cable

- Status indicators—low battery, low memory, USB data transfer, active alarm state

- Supplied: stand, Velcro®, magnetic strips, wall mount, batteries, Traceable® Certificate

6444

Bottle Probe   Bullet™ Probe   Vaccine Probe

Platinum RTD sensors, Stainless-steel 316 Probe

Cat. No.	Range	Resolution	Accuracy	Probe
6440				1 bottle (patented)
6441				2 bottles (patented)
6442				1 Bullet™
6443				2 Bullets™
6444	–50.00 to 70.00°C (–58.00 to 158.00°F)	0.01°	±0.25°C	1 bottle & 1 Bullet™
6445				1 stainless-steel
6446				2 stainless-steel
6447				1 vaccine bottle (5ml)
6448				2 vaccine bottles (5ml)
6428	–90.00 to 105.00°C (–130.00 to 221.00°F)	0.01°	±0.2°C	Platinum RTD sensors, 1 stainless-steel 316 Probe
6429		0.01°	±0.2°C	Platinum RTD sensors, 2 stainless-steel 316 Probes

Traceable® LN2 Thermometer

Datalogging thermometer with user-defined time intervals

- Best for monitoring your cryo needs for sensitive biologicals

- Hassle-free retrieval of data—unit can remain in use while downloading/analyzing data

- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed

- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if the unit returns to non-alarm conditions

- Durable platinum RTD sensor, 316 stainless-steel 316 with 3 m cable

- Multiple calibration points (–196°C, –80°C, 0°C and 100°C)

6456

Cat. No.	Temperature Range	Resolution	Accuracy	Data Overwrite	Memory	Probe
Excursion-Trac™						
6456	–200.00 to 105.00°C (–328.00 to 221.00°F)	0.01°	±0.25°C	Yes	525,600 data points	Platinum RTD sensors, 1 stainless-steel
6457						Platinum RTD sensors, 2 stainless-steel
Memory-Loc™						
6458	–200.00 to 105.00°C (–328.00 to 221.00°F)	0.01°	±0.25°C	No	1,051,200 data points	Platinum RTD sensors, 1 stainless-steel
6459						Platinum RTD sensors, 2 stainless-steel

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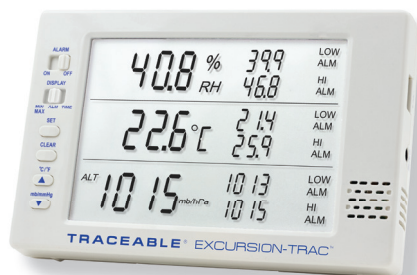
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Traceable® Excursion-Trac™ or Memory-Loc™ Datalogging Hygrometers

Perfect for hoods, storerooms, cleanrooms and other environments

- Unit has both ambient and external sensors that both measure humidity and temperature readings
- Stores up to 30 unique alarm events
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Hassle-free retrieval of data—unit can remain in use while downloading/analyzing data

6452

Cat. No.	Parameter	Range	Accuracy	Resolution	Data Overwrite	Memory
Excursion-Trac™						
6452	Ambient Humidity External Humidity Ambient Temperature External Temperature	0.0 to 95.0% RH (non-condensing) 32.0 to 145.0°F (0.0 to 65.0°C) –4.0 to 158.0°F (–20.0 to 70.0°C)	3% RH (5 to 75%), ±5% RH otherwise ±0.4°C	0.1% RH 0.1°	Yes	525,504 data points
Memory-Loc™						
6454	Ambient Humidity External Humidity Ambient Temperature External Temperature	0.0 to 95.0% RH (non-condensing) 32.0 to 145.0°F (0.0 to 65.0°C) –4.0 to 158.0°F (–20.0 to 70.0°C)	3% RH (5 to 75%), ±5% RH otherwise ±0.4°C	0.1% RH 0.1°	No	688,086 data points

Traceable® Excursion-Trac™ or Memory-Loc™ Datalogging Barometers

Perfect for warehouse, labs and other environments where ambient parameters need to be monitored

- Stores up to 30 unique alarm events
- Altitude Compensation from –100 to 2500 meters
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Hassle-free retrieval of data—unit can remain in use while downloading/analyzing data

6453

Cat. No.	Parameter	Range	Accuracy	Resolution	Data Overwrite	Memory
Excursion-Trac™						
6453	Barometric Pressure Relative Humidity Ambient Temperature	500 to 1030 mbar 0.0 to 95.0% RH (non-condensing) 32.0 to 158.0°F (0.0 to 55.0°C)	±4 mbar 3% RH (5 to 75% RH), ±5%RH otherwise ±0.4°C	1 mbar 0.1% RH 0.1°	Yes	525,600 data points
Memory-Loc™						
6455	Barometric Pressure Relative Humidity Ambient Temperature	500 to 1030 mbar 0.0 to 95.0% RH (non-condensing) 32.0 to 158.0°F (0.0 to 55.0°C)	±4 mbar 3% RH (5 to 75% RH), ±5%RH otherwise ±0.4°C	1 mbar 0.1% RH 0.1°	No	819,150 data points

**TRACEABLE®
PRODUCTS**

TraceableGO™ Datalogging Thermometer

Bluetooth Temperature Datalogger fills in the unknowns between destinations

- Press START to begin TRIP monitoring
- Place device inside a small cooler or even an entire pallet of material
- Once TRIP has ended, double-press START/STOP to enable Bluetooth and export the data using the FREE TraceableGO™ mobile app
- Device stores up to 90 alarm events—total logging duration is 227 days (7.5 months) adjustable interval
- Optional: Ability to store TRIP data with a TraceableLIVE® Account
- Supplied: Unit (3.5 x 2 x 0.79 inches), Traceable® Certificate

FREE TraceableGO™ Mobile App

Cat. No.	Range	Accuracy	Resolution
6535	−20 to 70°C (−4 to 158°F)	±0.4C between −10 and 70°C, otherwise ±0.5°C	0.1

Traceable® Logger-Trac™ Temperature Datalogger

Displays, records, and reports data every step of the way

- It is the perfect solution for monitoring material in transit as well as reagents, clinical samples, vaccines, pharmaceuticals and food items in any location
- All critical information is displayed on the screen – current, MIN/MAX temperatures, recording status, run time, cumulative alarm time, quarantine status, alarm tally
- Internal flash memory stores 7,680 readings
- If a quarantine condition has occurred, the following additional information is displayed: "QUARANTINE" notification (taking the place of the "ALARM" notification), alarm icon
- Reusable/Re-programmable—integrates with MaxiThermal Software for complete data analysis
- Logger-Trac™ Thermometers are pre-programmed with alarm values of 2°C (low) and 8°C (high) and a recording interval to allow for 30 days of recording (readings are logged every 5 minutes, 33 seconds)
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
6540	−35.0 to 50.0°C (−31.0 to 122.0°F)	0.1°	±0.2°C from 0 to 10°C; ±1°C otherwise
6548	−31.0 to 122.0°F (−35.0 to 50.0°C)	0.1°	n/a
Accessories			
6545	Logger-Trac™ Paper sleeves (100/pk)		
6580	MaxiThermal software		
6590	Temperature Logger-Trac™ Cradle/Cable		

TraceableGO™ Datalogging Hygrometer

Bluetooth Temperature and Humidity Datalogger fills in the unknowns between destinations

- Know what happened to shipments in transit or while being stored on a shelf
- Press START to begin monitoring, place device inside storage or even an entire pallet of material
- Double-press START/STOP to enable Bluetooth and export data using TraceableGO™ mobile app
- Stores up to 90 alarm events—total logging duration is 227 days (7.5 months) user adjustable interval
- TraceableGO™ mobile app immediately identifies if contents experienced conditions outside user-defined parameters
- Optional: Ability to store TRIP data with a TraceableLIVE® Account
- Supplied: Unit (3.5 x 2 x 0.79 inches), Traceable® Certificate

FREE TraceableGO™ Mobile App

Cat. No.	Range	Accuracy	Resolution
6537	Humidity: 0 to 95% RH, (non-condensing)	±3% RH between 5 to 75%, otherwise ±5% RH	0.1%
	Temperature: −20 to 70°C (−4 to 158°F)	±0.4C between −10 and 70°C, otherwise ±0.5°C	0.1

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TraceableLIVE® Wi-Fi Refrigerator/Freezer Datalogging Thermometers

Ideal for monitoring temperatures or critical samples and reagents in refrigerators & freezers

- Meets current CDC requirements and additional recommendations for vaccine storage and monitoring
- Multiple point accredited temperature calibration (–40°C, 0°C, 50°C)—traceable to NIST

Cat. No.	Range	Accuracy	Resolution	Probes
6500				2 Bottles (patented)
6501	–50.00 to 60.00°C	±0.25°C	0.01°	1 Bottle & 1 Bullet™
6502	(–58.00 to 140.00°F)			2 Bullets™
6503				2 Stainless-steel

6500 **6501**

TraceableLIVE® Wi-Fi Ultra-Low Datalogging Thermometers

Designed for ULT freezers—monitor temperatures below –80°C ensuring critical samples are not compromised

- Ideal for monitoring ultra-low temperature freezers
- Multiple point accredited temperature calibration (–80°C, –40°C, 0°C, 100°C)—traceable to NIST

Cat. No.	Range	Accuracy	Resolution	Probes
6510	–90.00 to 105.00°C	±0.1°C	0.01°	1 Platinum RTD sensor, Stainless-steel 316 probe
6511	(–130.00 to 221.00°F)			2 Platinum RTD sensors, Stainless-steel 316 probes

6510 **6511**

Traceable® Excursion-Trac™ Datalogging Refrigerator/Freezer Thermometers

Datalogging thermometer with user-defined time intervals

- User-defined time intervals, MIN/MAX and current conditions displayed on LCD, and °F/°C switchable
- Stores up to 10 unique alarm events
- Rolling memory structure, maintains most recent 525,600 temperature observations
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if the unit returns to non-alarm conditions
- Status indicators—low battery, memory full, USB data transfer, active alarm state
- Supplied: stand, Velcro®, magnetic strips, wall mount, batteries, Traceable® Certificate
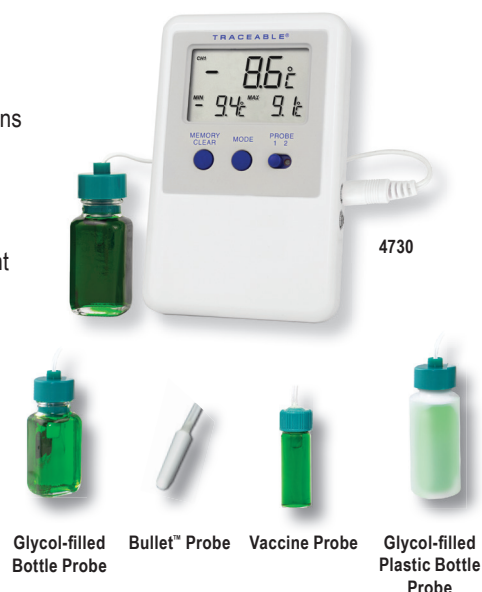
Bottle Probe **Bullet™ Probe**

Cat. No.	Temperature Range	Resolution	Accuracy	Probe
6430				1 bottle (patented)
6431	–50.00 to 70.00°C	0.01°	±0.25°C	2 bottles (patented)
6434	(–58.00 to 158.00°F)			1 bottle & 1 Bullet™

**TRACEABLE®
PRODUCTS**

Traceable® Refrigerator/Freezer Ultra™ Thermometers

Temperature-buffered bottle insulates sensor from rapid changes

- Smart-Alarm™: visual/audible alarm that continues to alarm even if unit returns to non-alarm conditions
- Triple display simultaneously shows MIN/MAX and current temperatures, °F/°C switchable
- Monitors minimum/maximum readings overnight, on weekends, or for any time period–a significant advantage over current read-only temperatures
- Alarm is settable in 0.1° increments–alerts user when temperature rises above/falls below a set point
- Supplied: battery, Velcro®, magnetic strips, 3 m cable, Traceable® Certificate

4730

Cat. No.	Range	Resolution	Accuracy	Probe
4730				1 bottle (patented)
4731				2 bottles (patented)
4732				1 Bullet™ (4.75 mm diameter and 1.9 cm long)
4733	–58.0 to 158.0°F		±0.5°C between	2 Bullets™ (4.75 mm diameter and 1.9 cm long)
4734	(–50.0 to 70.0°C)	0.1°	–30 to 50°C,	1 bottle & 1 Bullet™
4735			otherwise ±1°C	1 vaccine bottle
4736				2 vaccine bottles
4737				1 plastic bottle
4738				2 plastic bottles

Glycol-filled Bottle Probe · Bullet™ Probe · Vaccine Probe · Glycol-filled Plastic Bottle Probe

Traceable® Radio-Signal Refrigerator Thermometer

Captures temperature data with high-efficiency wireless technology

- Wirelessly read refrigerator temperatures from 30.5 m away, place remote module inside refrigerator
- Minimum/maximum memory allows monitoring conditions over any time period, °F/°C switchable
- Distinctive alarm sounds when temperature rises above or falls below set points
- Readings from up to 3 remote sensors are sent to main unit via radio signal-433 MHz penetrates refrigerators and walls
- Supplied: batteries, main unit, remote unit, flip-open stand, wall mount, Velcro®, Traceable® Certificate

6424

6425

Cat. No.	Range	Resolution	Accuracy	Probe
6424	–22.0 to 158.0°F	0.1°	±1.0°C	Main unit plus remote sensor with bottle (patented)
6425	(–30.0 to 70.0°C)			Accessory Bottle Remote module (set to channel 1, 2, or 3)

Traceable® Platinum High-Accuracy Refrigerator/Freezer Thermometer

Displays MIN/MAX temperatures for previous 24 hours (for each hour) and previous 7-days (for each day); or previous 31 days (for each day)

- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if the unit returns to non-alarm conditions
- Time/date stamp key shows exact time and date for all minimum and maximum readings
- Triple display shows current temperature in °F or °C, as well as MIN/MAX temperatures
- 6410 and 6411 are ideal for ultra-low freezer applications
- 6408 and 6409 are ideal for refrigerator/freezer applications
- Supplied: platinum probe, stand, wall mount, batteries, Traceable® Certificate

6408

Cat. No.	Range	Resolution	Accuracy	Probe	Calibration Points
Platinum RTD stainless-steel probe					
6410	–148.00 to 199.99°F (–100.00 to 199.99°C)	0.01°	±0.1°C	Handle: 0.33 cm dia. x 16 cm stem, 22 cm overall	–80°C, 0°C, 50°C and 190°C
Refrigerator/Freezer					
6408	–58.00 to 158.00°F	0.01°	±0.1°C	Glycol-filled bottle (patented)	–40°C, 0°C and 50°C
6409	(–50.00 to 70.00°C)			4.75 mm dia. x 1.9 cm long	–40°C, 0°C and 50°C
6411	–148.00 to 158.00°F (–100.00 to 70.00°C)	0.01°	±0.1°C	4.75 mm dia. x 1.9 cm long	–80°C, –40°C, and 0°C

6409/6411   6410

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Traceable® High-Accuracy Refrigerator Thermometers

High accuracy thermometer monitors 2 different areas of any refrigerator or freezer

- Reads to 0.01° while monitoring MIN/MAX temperatures in refrigerator and freezer simultaneously or two refrigerator locations with the exact time and date readings occurred, °F/°C switchable
- Two channel alarms provide unique visual (LED's) and audio alerts when temperature rises above or falls below user-defined high and low set points
- Smart-Alarm™ features a visual/audible alarm that continues to alarm even if unit returns to non-alarm conditions
- Unit displays the exact time and date when dual thermometer alarms are triggered, alarms are programmable in 0.1° increments
- Supplied: battery, 3 m cable, magnetic strips, Velcro®, bench stand, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4238				1 bottle (patented)
4239	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.3°C	2 bottles (patented)
4240				2 Bullets™ (4.75 mm diameter x 1.9 cm long)

Traceable® Refrigerator/Freezer Thermometers

The world's most popular refrigerator/freezer thermometer

- Accurately monitor temperatures in freezers, water baths, heating blocks, incubators, and refrigerators with this enclosed temperature-buffered sensor, °F/°C switchable
- Minimum/maximum monitors readings overnight, on weekends, or for any time period
- Alarm is programmable in 1° increments, sounds continuously when temperature rises above/falls below set points and can be turned off manually
- Visual and audible signals continue even if temperature returns to non-alarm range
- Supplied: flip-open stand, 3 m cable, wall mount, Velcro®, magnetic strips, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4048				1 Bullet™ (4.75 mm diameter x 1.9 cm long)
4127	−58 to 158°F (−50 to 70°C)	1°	±1°C	1 bottle (patented)
4527				1 vaccine bottle

Traceable® Digital-Bottle™ Refrigerator/Freezer Thermometer

Sealed unit can be placed inside a refrigerator

- MIN/MAX memory monitors readings overnight, on weekends, or for any time period—a significant advantage over glass thermometers displaying only current temperature
- The entire unit, including the bottle and display, may be placed in any environment within the operating range of the thermometer, °F/°C switchable
- Supplied: battery, holder, double-backed tape, Velcro®, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4426	−20.0 to 50.0°C (−4.0 to 122.0°F)	0.1°	±0.5°C between 0 to 50°C; otherwise ±1°C	Glycol-filled bottle (patented)
4428				Glass-bead filled bottle

**TRACEABLE®
PRODUCTS**

Traceable® Jumbo Refrigerator/Freezer Thermometer

Jumbo LCD simultaneously shows MIN/MAX/current temperature

● All-time favourite modular thermometer is easy to mount or position on any flat surface

● Valuable MIN/MAX memory records reading over any time period, °F/°C switchable

● Easy-read digital display with jumbo digits updates every 10 seconds to maintain exact test results

● Supplied: battery, magnet, stand, probe, 3 m cable, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4148				Bullet™ (4.75 mm diameter x 1.9 cm long)
4548	–58.0 to 158.0°F (–50.0 to 70.0°C)	0.1°	±1°C	Bottle (patented)
4648				Vaccine bottle

4148

4548   **4648**

Traceable® Memory-Card Refrigerator/Freezer Thermometer

Thermometer captures 5.9 million readings on removable SD card

● User-defined temperature observations can be made once per minute up to once every 720 minutes

● USB memory card reader plugs directly into Windows and Mac—no software to install

● Text report includes date/time of day and sensor readings

● 6400 model is ideal for monitoring refrigerators and freezers

● 6401 model is ideal for Quality Control and research

● Alarm sounds and LED flashes when temperature rises above or falls below user-set points

● Unique 4-line display shows temperature of detachable bottle probe, ambient temperature, humidity and time, °F/°C switchable

● Supplied: 256 mb SD memory card, memory card reader, batteries, magnetic strips, Velcro®, flip open stand, A/C adaptor, Traceable® Certificate

6400

6401

Cat. No.	Probe Range	Resolution	Accuracy	Probe
6400	–22.0 to 158.0°F (–30.0 to 70.0°C)	0.1°	±0.5°C from 0°C to 25°C; ±0.6°C from 25°C to 70°C ±1.2°C from –30°C to 0°C and 50 to 70°C	Bottle (patented)
6401				Stainless-steel

Traceable® Refrigerator/Freezer Plus™ Thermometer

Temperature-buffered bottle insulates sensor from rapid changes

● Triple display simultaneously shows MIN/MAX and current temperatures, °F/°C switchable

● Monitors high and low readings overnight, on weekends, or for any time period–a significant advantage over current read-only temperatures

● Alarm is programmable in 1° increments and alerts user when temperature rises above or falls below a set point

● Supplied: battery, Velcro®, magnetic strips, 3 meter cable, Traceable® Certificate

4227

Cat. No.	Range	Resolution	Accuracy	Probe
4727				Bullet™ (4.75 mm diameter x 1.9 cm long)
4227	–58.0 to 158.0°F (–50.0 to 70.0°C)	0.1°	±0.5°C (±0.9°F)	Bottle (patented)
4627				Vaccine bottle

4727   **4627**

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

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Traceable® Dual Thermometer

Dual-probe thermometer gives accurate readings of two separate areas in a refrigerator/freezer

- Two-part display shows °F or °C probe temperatures in distinct sections of refrigerator or freezer
- Easy-operate, always-ready unit quickly recalls exact date and time when MIN/MAX temperatures occur
- Audible and visual alarm feature provides alert when temperature rises above or falls below two set points, alarm is programmable in 1 degree increments
- Supplied: battery, flip-open stand, probes, 1 m cable, magnetic strips, Velcro® tape, Traceable® Certificate

4306

4307

Cat. No.	Range	Resolution	Accuracy	Probe
4307	−58.0 to 158.0°F (−50.0 to 70.0°C)	0.1°	±1.0°C	0.63 cm dia. x 3.1 cm length, waterproof probes (2 each)
4306				2 Bottles

Traceable® Sentry™ Thermometer °F/°C

Simple one-key reset operation resets MIN/MAX memories

- Constantly monitor high, low and current temperatures
- Sensor and 3 meter cable may be placed underwater, in refrigerator, or freezer
- Unplugging the cable activates a sensor inside the unit for monitoring ambient temperature
- Supplied: battery, probe, 3 meter cable, wall mount, magnet, stand, Velcro®, Traceable ® Certificate

4121

4321   **4527**

Cat. No.	Range	Resolution	Accuracy	Probe
4121				Bullet™ (4.75 mm diameter x 1.9 cm long)
4321	−50 to 70°C	1°	±1°C	Bottle (patented)
4527				Vaccine bottle

Traceable® Radio-Signal Remote Thermometer

Monitor up to 3 different remotes at same time from up to 30 m away

- Main unit can receive/display data from up to 3 different remote modules, and may be set to channel 1, 2 or 3
- Displays trend indicator shows whether temperature is rising or falling
- MIN/MAX memory allows monitoring conditions over short or long periods
- Alarm sounds when temperature rises above/falls below set points, may be programmed in 1° increments
- External probe and 3 meter cable perform accurately even when both are underwater, °F/°C
- Supplied: battery, remote module, probe, cable, flip-open stand, wall-mount, Traceable® Certificate

4115

Cat. No.	Ambient Range	External Range	Resolution	Accuracy	Probe
4115	−20.0 to 60.0°C	−5.0 to 50.0°C	0.1°	±1°C	Internal ambient & Bullet™ (4.75 mm dia. x 1.9 cm long)
Accessories					
4116					Bullet™ (4.75 mm dia. x 1.9 cm long)
4117	−20.0 to 60.0°C	−5.0 to 50.0°C	0.1°	±1°C	Stainless-steel 0.3 cm dia. x 21.5 cm; 1.5 m cable
4118					Bottle (patented)
4618					Vaccine bottle

4116   **4117**   **4618**   **4118**

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TRACEABLE®
PRODUCTS

Traceable® Thermometer with Time/Date Max/Min Memory

Unique, wide-range, triple-display thermometer offers amazing versatility and accuracy

- Thermometer displays current, MIN and MAX temperatures, °F/°C switchable
- Unit captures time and date when the MIN/MAX temperatures occurred
- Displays 0.95 cm high digits show the MIN/MAX of ambient or probe temperature, time and month/day
- Sensor and 1.8 m cable perform accurately even when both are underwater
- Supplied: battery, probe, 1.8 m cable, wall mount, flip-open stand, Velcro®, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4105				Bullet™ (4.75 mm diameter x 1.9 cm long)
4305	–40.0 to 176.0°F (–40.0 to 80.0°C)	0.1°	±1.5°C	Bottle (patented)
4605				Vaccine bottle

4105

4305 **4605**

Traceable® Econo Refrigerator Thermometer

Low-cost mini-size temperature sensor is always on-duty in refrigerator

- Economical refrigerator monitor has wide temperature range and is easy to switch from °F to °C
- Ideal unit for use in storerooms, labs, offices, hoods, cabinets
- Remarkable, clear-view display updates every 30 seconds
- Supplied: battery, suction cup, Velcro®, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4157	32 to 113°F (0 to 45°C)	0.1°	±1°C between (5 to 25°C) ±1.5°C otherwise

Traceable® Big-Digit See-Thru™ Thermometer

Jumbo, see-thru display automatically clears and updates MIN/MAX readings daily

- Smart design feature routinely resets MIN/MAX every day
- Perfect for use in fume hoods, refrigerators, plant areas
- Can be easily attached to outside of window to show outdoor temperatures
- Supplied: battery, mounting tape, Velcro® strip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4160	–25 to 70°C	0.1°	±1°C
4159	–13 to 158°F		

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Refrigerator/Freezer & Vaccine Probe Thermometer Specifications Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Range	Resolution	Accuracy	Length Probe	Cable	Battery	Alarm	Display MIN/MAX	Datalogging	Cloud Monitoring
6535	10	Yes	−20 to 70°C /−4 to 158°F	0.1	±0.4°C	n/a	n/a	1105	yes	yes	yes	no
6500	6	Yes	−58.00 to 158.00°F / −50.00 to 70.00°C	0.01°	±0.25°C	various	3 m	1105	yes	yes	yes	yes
6430	8	Yes	−58.00 to 158.00°F / −50.00 to 70.00°C	0.01°	±0.25°C	various	3 m	1105	yes	yes	yes	no
6440	9	Yes	−58.00 to 158.00°F / −50.00 to 70.00°C	0.01°	±0.25°C	various	3 m	1105	yes	yes	yes	no
4730	11	Yes	−58 to 158°F / −50 to 70°C	0.1°	±0.5°C	various	3 m	1105	yes	yes	no	no
6408	11	Yes	−58.00 to 158.00°F / −50.00 to 70.00°C	0.01°	±0.1°C	6.35 cm	3 m	1105	yes	yes	no	no
6424	11	Yes	−22 to 158°F / −30 to 70°C	0.1°	±1.0°C	6.35 cm	n/a	1105	yes	yes	no	no
4048	12	Yes	−58 to 158°F / −50 to 70°C	1°	±1°C	1.905 cm	3 m	1111	yes	yes	no	no
4127	12	Yes	−58 to 158°F / −50 to 70°C	1°	±1°C	6.35 cm	3 m	1111	yes	yes	no	no
4239	12	Yes	−58.00 to 158.00°F / −50.00 to 70.00°C	0.01°	±0.3°C	6.35 cm	3 m (2)	1111	yes	yes	no	no
4426	12	Yes	−22 to 122°F / −30 to 50°C	0.1°	±1.0°C	6.35 cm	n/a	1039	no	yes	no	no
4148	13	Yes	−58 to 158°F / −50 to 70°C	0.1°	±1°C	1.905 cm	3 m	1105	yes	yes	no	no
4227	13	Yes	−58 to 158°F / −50 to 70°C	0.1°	±0.5°C	6.35 cm	3 m	1105	yes	yes	no	no
4548	13	Yes	−58 to 158°F / −50 to 70°C	0.1°	±1°C	6.35 cm	3 m	1105	yes	yes	no	no
6400	13	Yes	−22 to 158°F / −30 to 70°C	0.1°	±0.6°C	6.35 cm	2 m	1111	yes	yes	yes	no
6401	13	Yes	−22 to 158°F / −30 to 70°C	0.1°	±0.6°C	2.54 cm	2 m	1111	yes	yes	yes	no
4115	14	Yes	−58 to 158°F / −50 to 70°C	0.1°	±1°C	1.905 cm	3 m	1111/ 1105	yes	yes	no	no
4121	14	Yes	−50 to 70°C	1°	±1°C	1.905 cm	3 m	1039	no	yes	no	no
4306	14	Yes	−58 to 158°F / −50 to 70°C	0.1°	±1.0°C	6.35 cm	1 m	1105	yes	yes	no	no
4105	15	Yes	−40 to 176°F / −40 to 80°C	0.1°	±1.5°C	3.81 cm	1.8 m	1105	no	yes	no	no

6412

6422

6413 / 6423

Traceable® Platinum Ultra-Accurate Thermometer

Most accurate thermometer available with 0.0001° resolution

- High-precision unit is designed for years of reliable service even in harshest environments
- Resolution set key changes display to show 1, 2, 3 or 4 digits after decimal
- Internal data logger automatically captures MIN/MAX readings every hour for last 24 hours
- Instant response probe updates readings 3 times per second for liquids, air/gas and semi-solids
- Supplied: battery, platinum probe, cable, computer output, plastic carrying case, Traceable® Certificate

Cat. No.	Unit Range	Probe Range	Resolution	Accuracy	Platinum RTD Stainless-steel Probe
6412	−200.00 to 500.000°C	−200.00 to 500.000°C	0.1° to 0.0001	±0.05°C or 0.05% between −80 to 290°C	0.33 cm dia. x 17.8 cm; 1.8 m cable
6413		−100.00 to 200.00°C			0.63 cm dia. x 15 cm; 2.7 m PTFE cable
Accessories					
6422	Replacement Platinum RTD stainless-steel Probe				
6423	Replacement Platinum RTD stainless-steel Bullet™ Probe				
4099	Data Acquisition System Software				
4236	Universal AC Adaptor				

TRACEABLE®
PRODUCTS

Traceable® Digital Thermometer

The laboratory standard

- Triple purpose stainless-steel probe for liquids, air/gas, and semi-solids
- Ideal for foods, pharmaceuticals, petroleum products, gas systems, soil, ovens, and more
- Unit reads in °C and °F and includes a HOLD key for freezing data on the display for future readings
- Instant HISTORY key recalls minimum and maximum readings over the past 24 hours
- Unit conforms to ITS-90 International Temperature Standard
- Supplied: battery, probe, cable, computer output, plastic carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Stainless-steel Probe
4000	−58.000 to 302.000°F (−50.000 to 150.000°C)	0.0001°	±0.05°C between 0.0 to 100°C	15.2 cm stem, 0.76 cm dia. x 22.9 cm; cable: 1.6 m
Accessories				
4111	Replacement Probe: −50.000 to 150.000°C	—	±0.05°C between 0.0 to 100°C	15.2 cm stem, 0.76 cm dia. x 22.8 cm; cable: 1.6 m
4099	Data Acquisition System Software			
4236	AC Adaptor			

4111

Traceable® High-Accuracy Dual Thermometer

Dual-probe unit provides exact results for critical requirements, quality control, and routine readings

- Two probes are useful for monitoring inlets and outlets, tracking two tests simultaneously or measuring temperatures in two locations
- Display shows current °F/°C and minimum/maximum temperatures
- Minimum/maximum monitors readings overnight, on weekends, or any time period; unit displays the exact time and date when the minimum and maximum temperature occurred
- Visual/audible alarms are programmable in 0.1° increments and provide alerts when temperature rises above/falls below high/low set points
- Supplied: batteries, flip-open stand, probe, cable, magnetic strips, Velcro®, wall mount, Traceable® Certificate

4337

Cat. No.	Range	Resolution	Accuracy	Probe
4337	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.3°C	1 stainless-steel probe, 3.1 mm dia. x 15.8 cm stem; 1.5 m cable
4338				2 stainless-steel probes, 3.1 mm dia. x 15.8 cm stem; 1.5 m cable

Traceable® RTD Waterproof Platinum Thermometer

State-of-the-art technology delivers high platinum performance

- Real-time response RTD platinum probe, water-resistant IP67, HACCP, countdown timer, hold, MIN/MAX readings, and high alarm
- Green/Red dual color backlight to indicate HACCP temperature hazards
- Computer output allows thermometer to be connected to a computer or data logger
- Supplied: batteries, probe, hard carrying case, stainless steel probe holder, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4132	−148 to 572°F (−100 to 300°C)	0.01ºC	±0.15ºC	Length: 6", 0.1" dia.; 43" cable
Accessories				
4133	Replacement Probe			
4136	Data Acquisition System (additional information, see page 80)			
4138	Easy-Use Adaptor (for international adapters see page 81)			

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® –100.0°C Platinum Freezer Thermometer

Fast-response RTD platinum probe supplies high-precision results

- Platinum probe is triple purpose for liquids, air/gas, and frozen materials
- Ultra-slim micro-3 meter cable allows freezer doors to seal tightly around it
- Adjustable probe holder, magnets, Velcro® allow unit/probe to be used anywhere in lab/field
- Supplied: battery, probe, cable, probe holder, Velcro®, magnetic strips, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4230	–99 to 199.9°C	0.1°	±2°C	0.4 cm dia. x 7.6 cm probe; 3 m cable

Traceable® Extreme-Accuracy Thermometer

Delivers exact time/date when temps rise above/fall below set-points

- Two audible and two visual alarms warn when temperatures rise above/fall below set-points, unit displays the exact time and date when alarm was triggered
- Efficient alarms are programmable in 0.1° increments and sound continuously until disabled
- Remarkable, three-line display shows minimum/maximum, current temperatures
- Accurate readings with tip penetration of 0.84 cm, unit reads °C and °F
- Supplied: batteries, flip-open stand, Velcro®, magnet, wall mount, probe, cable, Traceable® Certificate

4241

Cat. No.	Range	Resolution	Accuracy	Probe
4241	0.00° (–2.00 to 2.00°C)			
4242	25.00° (23.00 to 27.00°C)	0.01°	±0.05°C within ±2°C of standard	3.1 mm dia. x 15.8 cm stem length, 1.5 m cable
4243	37.00° (35.00 to 39.00°C)			
4244	0.00°, 25.00°, 37.00°—all 3 above			

Traceable® Kangaroo™ Thermometer

Pocket-size thermometer features handy cable storage and probe brackets for portability

- Precision memory feature automatically captures and recalls minimum/maximum temperature readings over any time period, °F/°C switchable
- Efficient alarm continues to sound every minute until temperature returns to non-alarm conditions
- Supplied: battery, probe, cable, flip-open stand, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4430	–58 to 572°F (–50 to 300°C)	0.1° from –19.9 to 199.9°C; or 1°C elsewhere	±1°C from –30 to 250°C; or ±2°C elsewhere	19 cm x 0.35 cm dia.; 1 m cable

Traceable® Alarm Thermometer/Alarm Timer

Stainless-steel probe and cable may be placed in an oven or incubator

- Display shows time, current temperature, and alarm temp setting, °F/°C switchable
- Metal cable may be placed in ovens and incubators making this unit ideal for those applications
- Unique, adjustable display and large digits allow for viewing from 3 meters at any angle
- Supplied: battery, probe, cable, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4147	32 to 392°F (0 to 200°C)	1°	±2°C	21.6 cm x 0.63 cm dia.; 1 meter metal cable

TRACEABLE® PRODUCTS

Traceable® Extra Long-Probe Waterproof Thermometer
Extra-long 50.8 cm probe created for deep vessels

● Ideal for large beakers/flasks, vats, pails and drums

● Waterproof to a depth of 3 m (meter/probe/cable)

● Jumbo 4.2 cm LCD can be read from up to 21 meters

● Supplied: stainless-steel probe, spring-loaded holder, wall mount, batteries, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
6406	14.0 to 230.0°F (–10.0 to 110.0°C)	0.1	±1°C	stainless-steel 0.5 cm dia. x 50.8 cm length; 3 m cable
Accessories				
7396	Stainless-steel probe clamp			

20 inches
(50 cm)

Traceable® Memory/Waterproof Thermometer
Amazing memory captures, stores and recalls 10 temperature readings

● Broad temperature range and extra-high accuracy solve 99% of most lab/field data collecting needs

● Records minimum and maximum memory readings over any time period, °F/°C switchable

● Supplied: battery, probe, 3 m cable, probe holder, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4373	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°C; 1°C elsewhere	±1°C between –20 to 200°C	0.48 cm dia. x 19 cm

Traceable® Full-Scale Thermometers
Readings are updated every second and displayed on a 0.95 cm LCD

● Stainless-steel probe with piercing tip delivers constant temperatures at both ends of scale

● 4377 and 4368 models include high-low alarms, minimum/maximum memories and a hold feature

● Magnetic back attaches unit to any metal surface (incubators, freezers, water baths) for hands-free use

● Supplied: battery, probe, cable, flip-open stand, clip, magnetic back, Traceable® Certificate

4152/4252

4377/4368

Cat. No.	Range	Accuracy	Resolution
4152	–4 to 500°F (–20 to 250°C)	±1.0°C between –20 to 100°C	0.1° above –20 to 200°C; or 1°C elsewhere
4252		±0.5°C at tested points	
4377	–4 to 572°F (–20 to 300°C)	±1.0°C between –20 to 100°C	
4368		±0.5°C at tested points	

Traceable® Snap-in Module with Probe
Panel-mount unit, snaps into place or can be used free-standing

● Valuable minimum/maximum memory records reading over any time period

● Easy-read digital display with jumbo digits updates every second to maintain exact test results

● Supplied: battery, probe, cable, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4376	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°C; or 1°C elsewhere	±1°C from –20 to 100°C	0.35 cm dia. x 6.9 cm probe length including handle; 3 meter cable

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® Mini-Thermometer

Simple three key thermometer is business-card sized for easy storage

- Stainless-steel probe can be used to measure liquid, air/gas, or semi-solids
- Small but powerful unit fits easily into tool kits, briefcases or pockets
- Supplied: battery, probe, cable, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4146	−58.0 to 302.0°F (−50.0 to 150.0°C)	0.1°	±1°C between (−30 to 150°C), otherwise ±2°C	0.35 cm dia. x 17.8 cm; 45.7 cm cable

Traceable® Digital Thermometer

Ideal for use in cuvettes, soils, water baths, waste water, and incubators

- Countdown timer, programmable Hi/Lo alarms, MIN/MAX memory, °F/°C switchable
- High/low alarms may be programmed in 1° increments, alarm mode may be switched off when not required
- Unit features a countdown timer for 59 hours, 59 minutes to 1 minute and may be set in 1-minute intervals
- Supplied: battery, probe, 1 meter cable, probe holder, flip-open stand, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4045	−58.0 to 500.8°F (−50.0 to 260.0°C)	0.1°	±1°C	12.7 cm dia., x 18.4 cm length, 1 m cable

Traceable® Water-Resistant Thermometers

Water-resistant case, cable, and stainless-steel probe monitors temperature in any wet area

- Water/shockproof case provides flawless readings in freezers, water baths, incubators, tanks
- Stainless-steel probe efficiently monitors temperature in liquids, semi-solids, air/gases
- One-key operation quickly recalls Min/Max readings over any time period, °F/°C switchable
- Supplied: battery, probe, 3 meter cable, suction cups, magnet, Velcro® strips, Traceable® Certificate

4039

Cat. No.	Range	Resolution	Accuracy	Probe
4039	−58 to 572°F (−50 to 300°C)	0.1° from −19.9 to 199.9°C; otherwise 1°C	±1°C between −20 and 100°C	0.35 cm dia. x 12.7 cm probe length, 3 meter cable
4339			±0.5°C at tested points	

Traceable® Solar-Powered Thermometer

Solar-powered thermometer with a back-up battery

- Efficient and cost-saving solar panels make unit environmentally attractive
- Sensor and cable perform accurately even under water, °F/°C switchable
- Supplied: back-up battery, mounting screw, 3 meter cable, Velcro®, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Sensor
4123	−58.0 to 158.0°F (−50.0 to 70.0°C)	0.1°C	±1°C between (−20.0 to 70.0°C).	cable/probe: 4.75 mm x 20.3 mm, waterproof

TRACEABLE®
P R O D U C T S

Traceable® Lollipop™ Shock/Water-resistant Thermometers

Featherweight, wide-range covers 99% of temperature measurement needs

- Shock/water-resistant unit delivers reading updates every second
- One-key operation recalls MIN/MAX temperature results, °F/°C switchable
- Supplied: battery, probe, protective sleeve with pocket clip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4371	–58 to 572°F (–50 to 300°C)	0.1° from –19.9 to 199.9°C; otherwise 1°C	±1°C between –20 and 100°C
4378			±0.5°C at tested points

4371

Traceable® Long-Stem Thermometers

Ideal for replacing all glass and mercury thermometers in the lab

- On/off switch provides longer battery life, °F/°C switchable range
- Long stem allows for taking readings while stirring and is ideal for use in incubators and ovens
- Supplied: battery, probe, protective sleeve with pocket clip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Stem Length	Overall Length
4052	–58 to 302°F (–50 to 150°C)	0.1° from –20 to 200° (1° otherwise)	±1°C	20 cm	28 cm
4352			±0.2°C at tested points	20 cm	28 cm
4353	–58 to 572°F (–50 to 300°C)		±1°C	28.9 cm	36.5 cm
4354			±0.5°C at tested points	28.9 cm	36.5 cm

4052

Traceable® Digital Dial Thermometers

Readings updated every 10 seconds

- Ideal for use in soil, cuvettes, test tubes, incubators, biomedical reagents, and petroleum hydrocarbons
- Large, bright 0.95 cm-high LCD
- Supplied: protective case, battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4044	–58.0 to 572.0°F (–50.0 to 300.0°C)	0.1°	±1°C	Stainless-steel 12 x 0.48 cm diameter
4342			±0.4°C at tested points	Stainless-steel 12 x 0.48 cm diameter

4044

Traceable® Waterproof Food HACCP Thermometer

Versatile, no-touch infrared and piercing probe combo create perfect HACCP thermometer

- Designed specifically as a HACCP (Hazard Analysis and Critical Control Point) thermometer for food safety
- LED's indicate the HACCP zones: green light under 4°C (40°F), green light over 60°C (140°F) and red danger light between 4 to 60°C (40 to 140°F)
- Display shows current temperature, MIN/MAX temperature, low battery and emissivity value for infrared
- Waterproof case and unique membrane keys prevent splashes/spills from permeating unit
- Infrared emissivity: 0.95 default; adjustable from 0.1 to 1.0; field of view: 2.5:1
- Supplied: battery, probe, Velcro®, Traceable® Certificate

Cat. No.	Sensor	Range	Resolution	Accuracy
4364	Infrared	–67 to 482°F (–55 to 250°C)	0.5°F (0.2C°) between –10 and 200; 1° elsewhere	±0.6°C between –5 to 65°C
	Piercing, stainless-steel	–67 to 626°F (–55 to 330°C)		±0.5°C

Infrared Sensor on back

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

(866) 433-6682 • (281) 359-8538 • sales@novatech-usa.com • www.novatech-usa.com

Traceable® Waterproof Food Thermometers

Waterproof pocket partner is ready for every temperature task

- Specially designed membrane keys prevents splashes/spills from permeating thermometer
- One-key operation quickly displays MIN/MAX readings
- Piercing probe tip adds extra versatility to data collection requirements
- Supplied: battery, probe holder/guard, pocket clip, key-chain, lanyard, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4420	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°C; or 1°C elsewhere	±1.5°C
4421			±0.4°C at tested points

4420

Traceable® Food/Waterproof/Piercing Thermometers

Piercing probe is ideal for use in labs, soil, foods, brewing and other applications

- Stainless-steel piercing tip easily evaluates internal temperatures of stored, frozen, or prepared foods
- Wide °F/°C range unit is a must-have for 99% of routine temperature measurements
- Stainless-steel probe is 0.48 cm diameter x 20 cm
- Supplied: battery, Traceable® Certificate

4370

Cat. No.	Range	Resolution	Accuracy
4370	–58 to 536°F (–50 to 280°C)	0.1° from –20 to 200°C; or 1°C elsewhere	±1.0°C between –20 to 100°C
4369			±0.4°C at tested points

Traceable® Dishwasher/Metal Thermometers

Reports MIN/MAX temperatures achieved during dish-washing cycle

- Monitors temperatures for proper cleaning, °F/°C switchable
- Water-resistant and metal construction are ideal for food, wet labs, outdoors
- Supplied: clip for attaching to dishwasher rack, battery, Traceable® Certificate

4203

4202

Cat. No.	Range	Resolution	Accuracy	Feature
4202	–58.0 to 302.0°F (–50.0 to 150.0°C)	0.1°	±1°C between –20 to 150°C	stainless-steel probe
4203	–4.0 to 185.0°F (–20.0 to 85.0°C)			dishwasher clip

Traceable® Flip-Stick™ Thermometers

Multi-purpose, fold-out design makes taking probe readings in any position a snap

- Stainless-steel, multi-angle probe folds out for easy positioning in difficult to reach vessels
- Fully extended, chemical-resistant probe lengthens unit to 27.9 cm
- Unit includes MIN/MAX memory and HOLD key to freeze current display
- Supplied: probe, battery, wrist-strap, Traceable® Certificate

4372

Cat. No.	Range	Resolution	Accuracy
4372	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°C; or 1°C elsewhere	±1°C between –20 and 100°C
4272			±0.3°C at tested points

TRACEABLE® PRODUCTS

Traceable® Rapid-Response™ Stainless-steel Folding Thermometer

Wide-range, high accuracy and fast response temperature readings

- Fold-up, protected probe permits ultimate portability
- Splash-resistant compact design with antimicrobial case inhibits growth of pathogens
- Multiple calibration points (0°C, 100°C, and 200°C)
- Supplied: opening for lanyard, battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Dimensions
6130	–40.0 to 250.0°C	0.1°	±0.5°C from –20 to 250°C, otherwise ±1°C	4½ x 1½ x ¾"; probe: 2.8 x 0.13" dia
6131				6 x 1¾ x ¾"; probe: 4.4 x 0.15" dia

6130

Traceable® Robo™ Thermometers

Innovative, 180° rotating display can be quickly positioned to deliver accurate readings from any angle

- Plastic and stainless-steel construction make thermometer ideal for environments where safety is a concern
- 20 cm long stainless-steel probe is resistant to most lab chemicals
- Supplied: battery, probe case with clip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4149	–58 to 536°F (–50 to 280°C)	0.1° from –20 to 200°C	±1°C between –20 and 100°C
4349			±0.4°C at tested points

4149

Traceable® Pocket Thermometer

Unique, slim-line all-time-favourite thermometer

- Small, 85 gram pocket thermometer
- Probe guard extends overall length to 27.3 cm
- Supplied: battery, probe case, pocket clip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4050	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200° (1° otherwise)	±1.5°C
4350			±0.4°C at tested points

4050

Traceable® Jumbo-Display Dial Thermometer

Stainless-steel probe is perfect for viscous solutions

- Piercing tip makes it perfect for measuring temperatures of semi-solids, °F/°C switchable
- On/off switch provides longer battery life
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4049	–58 to 302°F (–50 to 150°C)	0.1°	±1.0°C	0.35 cm diameter x 13.3 cm
4374			±0.3°C	0.35 cm diameter x 13.3 cm
4355			±1.0°C	1.2 cm diameter metal disk at end of probe for surface measurements

4049/4374

4355

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® Key-Chain Thermometer
Use-anywhere pocket thermometer with wide-range capacity

- Fast, one-second response makes it ideal for measuring ambient air temperatures
- 2.5 cm stainless steel probe is designed for penetration of semi-solids and liquid measurements
- Supplied: battery, key-chain, clip, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4351	–58 to 302°F (–50 to 150°C)	0.1°	±1°C from –20 to 100C°

Stainless-Steel Probe Thermometer Specifications Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Range	Resolution	Accuracy (°C)	Probe Length (cm)	Waterproof	Battery	Alarm	Display MIN/MAX
6410	11	Yes	–148 to 199°F / –100 to 199°C	0.1°	±0.01	22.86	probe only	1105	yes	yes
6412/6413	16	Yes	–328 to 932°F / –200 to 500°C	0.1° to 0.0001°	±0.05	16 / 14.7	no	1112	no	yes
4000	17	Yes	–58 to 302°F / –50 to 150°C	0.0001°	±0.05	22.86	probe only	1112	no	yes
4337	17	Yes	–58 to 158°F / –50 to 70°C	0.01°	±0.3	15.8	no	1105	yes	yes
4132	17	Yes	–148 to 572°F –100 to 300°C	0.01°	±0.15ºC	15.2	yes	1112	yes	yes
4147	18	Yes	32 to 392°F / 0 to 200°C	1°	±2	21.6	probe only	1105	yes	no
4230	18	Yes	–99 to 199.9°C	0.1°	±2	7.6	probe only	1112	no	no
4241/4244	18	Yes	–2.00 to 39.00°C	0.01°	±0.05	15.8	probe only	1105	yes	yes
4430	18	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1	19	probe only	1039	yes	yes
4152	19	Yes	–4 to 500°F / –20 to 250°C	0.1°	±1.0 / ±0.5	13.97	probe only	1039	no	no
4373	19	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.0	19	yes	1039	yes	yes
4376	19	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.0	6.9	probe only	1039	no	yes
4377/4368	19	Yes	–4 to 572°F / –20 to 300°C	0.1°	±1.0 / ±0.5	13.97	probe only	1039	yes	yes
6406	19	Yes	14 to 230°F / –10 to 110°C	0.1°	±1	50.8	yes	1105	no	no
4045	20	Yes	–58 to 500°F / –50 to 260°C	0.1°	±1	18.4	probe only	1105	yes	yes
4039/4339	20	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1/±0.05*	12.7	yes	1102	no	yes
4123	20	Yes	–58 to 158°F / –50 to 70°C	0.1°	±1	2.3	yes	n/a	no	n
4146	20	Yes	–58 to 302°F / –50 to 150°C	0.1°	±1	17.8	probe only	1039	no	no
4044	21	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1	12	probe only	4032	no	no
4052	21	Yes	–58 to 302°F / –50 to 150°C	0.1°	±1	20.32	probe only	1039	no	no
4352	21	Yes	–58 to 302°F / –50 to 150°C	0.1°	±0.2*	20.32	probe only	1039	no	no
4353	21	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1	28.9	probe only	1039	no	no
4354	21	Yes	–58 to 572°F / –50 to 300°C	0.1°	±0.5*	28.9	probe only	1039	no	no
4364	21	Yes	–67 to 626°F / –55 to 330°C	0.2°	±0.5	15.2	probe only	1105	no	no
4371/4378	21	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.0/±0.5*	20.32	yes	1039	no	yes
4370/4369	22	Yes	–58 to 536°F / –50 to 280°C	0.1°	±1.0/±0.4*	20.32	yes	1039	no	no
4420/4421	22	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.5 / ±0.4*	8.89	probe only	1039	no	yes
4372/4272	22	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.0/ ±0.3*	11.43	probe only	1105	no	yes
4049	23	Yes	–58 to 302°F / –50 to 150°C	0.1°	±1.0	13.33	probe only	1039	no	no
4050/4350	23	Yes	–58 to 572°F / –50 to 300°C	0.1°	±1.5/±0.4*	8.89	probe only	1039	no	yes
4149	23	Yes	–58 to 536°F / –50 to 280°C	0.1°	±1	20.32	probe only	1039	no	no
4349	23	Yes	–58 to 536°F / –50 to 280°C	0.1°	±0.4*	20.32	probe only	1039	no	no
4355	23	Yes	–58 to 302°F / –50 to 150°C	0.1°	±1.0	13.3	probe only	1039	no	no
4374	23	Yes	–58 to 302°F / –50 to 150°C	0.1°	±0.3*	13.3	probe only	1039	no	no
4351	24	Yes	–58 to 302°F / –50 to 150°C	0.1°	±1	1.905	probe only	1039	no	no

TRACEABLE®
PRODUCTS

Traceable® Total-Range Thermometer

Water-resistant design is perfect for use in lab or plant's worst environments

● Unit recalls MIN/MAX temperature readings; updates display twice a second, °F/°C switchable

● HI/LO Alarm: indicates when temperature rises above or falls below high/low set points, 1° increments

● Timer feature displays duration of temperature conditions and time tests; capacity: 23 hours 59 minutes to 1 minute; resolution: 1 second

● Probe range (supplied with unit) –40 to 250°C continuous or 300°C short-term; accepts all Type-K thermocouples

● Supplied: flip-out stand, PVC casing, 1.2 m cable, Type-K beaded probe, batteries, Traceable® Certificate,

Cat. No.	Meter Range	Resolution	Accuracy
4015	–328 to 2,498°F (–200 to 1,370°C)	0.1° and 1°	±1°C between –50°C to 740°C, otherwise ±2°C

Traceable® Memory Wide-Range Thermometer

High accuracy, wide range Type-K thermometer

● Triple purpose probe may be used to measure temperature of liquids, gases and semi-solids

● Computer output allows thermometer to be connected to a computer or data logger capturing/storing readings

● Count-up timer provides a relative time measurement while taking temperatures and recording MIN/MAX readings, °F/°C switchable

● Probe range (supplied with unit) –50 to 700°C, 15.8 cm stem x 0.33 cm dia, 1 m cable; meter accepts any Type-J, K or T probe

● Supplied: stainless-steel Type-K thermocouple probe, battery, Traceable® Certificate

Cat. No.	Meter Range	Resolution	Accuracy
4007	–328 to 2,498°F (–200 to 1,370°C)	0.1 from –200 to 640°C (–328 to 990°F) otherwise 1°	±1°C
Accessories			
4237	Data Acquisition System		
4138	Data Logger		

For additional Type-K probes, see page 29.

Traceable® Big-Digit Type-K Thermometer

Big digits are readable from 4.5 meters away

● Intuitive, four-key operation makes this thermometer extremely easy to use

● Max HOLD feature permits capturing the highest temperature achieved over any time period

● Probe range (supplied) –40 to 250°C continuous 300°C short-term; accepts all Type-K thermocouples

● Supplied: carrying case, 1.2 m Type-K beaded probe, battery, Traceable® Certificate,

Cat. No.	Meter Range	Resolution	Accuracy
4004	–58 to 2,000°F (–50 to 1,300°C)	0.1° and 1°	±0.3% of reading + 1°C between –50°C to 1,000°C, otherwise 0.5% of reading + 1°C

For additional Type-K probes, see page 29.

Traceable® Certificate

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Traceable® Workhorse™ Thermometer

Type-K workhorse with wide temperature range has new chip design for ultra-low cost

- Recessed adjustable offset offers increased accuracy by allowing user to set thermometer to specific temperatures, in-house calibrations, or a particular sensor
- HOLD function freezes display for easy recording of current temperature
- Probe range –45 to 230°C; 8.3 cm stem, 0.5 cm stem dia, 76 cm cable; accepts all Type K probes
- Supplied: stand, case, stainless-steel Type-K probe, battery, Traceable® Certificate

Cat No	Meter Range	Accuracy	Resolution
4425	–58 to 2,372°F (–50 to 1,300°C)	See below	0.1° from –50 to 200°; 1° elsewhere
	0 to 500°C	±(1°C + 0.75%)	
	500 to 750°C	±(1°C + 1%)	
	750 to 1,000°C	±(1°C + 2%)	
	1,000 to 1,200°C	±(3°C + 4%)	
	–20°C	±2°C	
	–40°C	±3°C	
	–50°C	±4°C	

For additional Type-K probes, see page 29.

Traceable® Waterproof Type-K Thermometer

Rubber boot covers thermocouple to maintain waterproof integrity with thermocouple attached

- MIN/MAX key rapidly recalls highest and lowest temperature reading achieved
- Unique differential feature shows the difference in temperature from a set point
- Back-lighting key (BKLT) allows for reading in dark areas, large-digit display is readable from 3 m away
- Probe range (supplied): –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples
- Supplied: carrying case, Traceable® Certificate, battery, Type-K beaded probe, cable

Cat. No.	Meter Range	Resolution	Accuracy
4003	–328 to 2,372°F (–200 to 1,300°C)	0.1° and 1°	±0.3% of reading + 1°C between –200°C to 1,000°C, otherwise 0.5% of reading + 1°C

For additional Type-K probes, see page 29.

Traceable® Digital Thermometer with Recorder Output

Use with any chart recorder or computer that can accept millivolt signals

- Unit can recall the maximum temperature achieved at the touch of a button
- HOLD key freezes display to capture current reading, °F/°C switchable
- Probe range (supplied): –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples
- Supplied: Type-K beaded probe, 1.2 m cable, battery, recorder output jack, Traceable® Certificate

Cat. No.	Meter Range	Resolution	Accuracy
4134	–50 to 1,999°F (–50 to 1,300°C)	0.1° from –50.0 to 199.9° and is 1° for all other readings	±0.3% of reading plus 1°C

For additional Type-K probes, see page 29.

**TRACEABLE®
PRODUCTS**

Traceable® Pocket-Size™ Thermometer

New microchip design combines ultra-low cost with ultra-high precision

- Mini-size and shockproof construction increases convenience and reliability
- One-switch operation makes it the perfect thermometer for routine use, °F/°C switchable
- Probe range (supplied): –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples
- Supplied: nylon carrying case, 1.2 m Type-K beaded probe, battery, Traceable® Certificate

Cat. No.	Meter Range	Resolution	Accuracy
4232	–58 to 1,382°F (–50 to 750°C)	1°	±(1°C + 0.75%) from 0 to 500°C; ±(1°C +1%) from 500 to 750°C; –20° ±2°C; –40° ±4°C; –50° ±5°C

For additional Type-K probes, see page 29.

Traceable® Dual-Channel Thermometer

Data keeper records two probe readings and difference between them

- Dual display simultaneously shows one of two options: temperature of 2 probes or temperature of one probe and difference between probes
- Two-probe capability shows important temperature changes for 99% of all lab/field requirements, °F/°C switchable
- Probe range (supplied: –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples
- Computer output allows thermometer to be connected to the computer or data logger for capturing/storing data
- Supplied: two 1.2 m Type-K beaded probes, battery, Traceable® Certificate

Cat. No.	Meter Range	Resolution	Accuracy
4029	–50 to 1,999°F (–50 to 1,230°C)	0.1° under 200°C and 1° above 200°C	0.3% + 1°C

For additional Type-K probes, see page 29.

Traceable® 2-Channel Thermometer

View independent probe temperatures or the difference between probes

- Provides recessed front panel adjustable offsets on two channels allows the end to adjust thermometer to a specific temperature, in-house calibration, or particular sensor for increased accuracy, °F/°C switchable
- Rubberised case makes it a virtually all weather-proof instrument for shock and abusive conditions
- Probe range (supplied): –40 to 482°F continuous or 572°F short term; uses all Type-K thermocouples
- Supplied: Velcro®, strap, stand, two 1.2 m Type-K beaded probes, battery, Traceable® Certificate

Cat. No.	Meter Range	Resolution	Accuracy
4135	–58 to 1,999°F (–50 to 1,300°C)	switchable 0.1° or 1°	±0.3% plus 1°C

For additional Type-K probes, see page 29.

Traceable® Double Thermometer

Computer output allows thermometer to be connected to computer/data logger to capture and store data

- Monitors temperatures using 2 different probes/sensors making it easy to note temperature variations in an incubator/oven or temperature graduations in a bath water, °F/°C switchable
- Probe range (supplied): –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples
- Supplied: computer output, fast-response probes (2), 1.2 m cables, battery, Traceable® Certificate

Cat. No.	Unit Range	Resolution	Accuracy
4137	–50 to 1,999°F (–50 to 1,230°C)	0.1° (from –50.0 to 199.9°F) and 1°C/°F over entire range	±(0.75% + 1°C).
Accessories			
4136	Data Acquisition System (for additional information see page 80)		

For additional Type-K probes, see page 29.

Traceable® Expanded-Range Thermometer

Compact, pocket-size thermometer goes anywhere fast-response readings are needed

- Shockproof, mini-size thermometer is ideal lab assistant for all plant and field applications
- Probe range (supplied with unit): –40 to 250°C continuous or 300°C short-term; uses all Type-K thermocouples; dual probes allow two tests to be monitored simultaneously
- One-switch operation makes it the perfect thermometer for routine use, °F/°C switchable
- Supplied: two 1.2 m Type-K beaded probes, battery, Traceable® Certificate

Cat. No.	Unit Range	Resolution	Accuracy
4026	–40 to 1,200°C	1°	±(1°C +1%) from 0 to 750°C

For additional Type-K probes, see page 29.

Traceable® Printing Thermometer

Built-in printer provides permanent record with time-and-date stamp

- Prints time and date for Max only, Min only, average only, and in circularly mode T1, T2 and differential, printing programs in intervals of 3 secs to 23h 59m 59s
- MIN,MAX or average temperature readings may be displayed or cleared at any time with the touch of a key
- Alarm feature may be set in 0.1 increments and sounds when temperature rises above/falls below set point
- Dual probe inputs allow displaying temperature of probe 1, probe 2, or difference (delta) of probe 1 and 2 (accepts Type J, K, T, or E probe), °F/°C switchable
- Supplied: two 1.2 m Type-K beaded probes, Traceable® Certificate, batteries, two thermal paper rolls (good for approximately 1400 printings per roll), ABS carrying case

Cat. No.	Range	Resolution	Accuracy
4100	–328.0 to 2431.0°F (–200.0 to 1333.0°C)	0.1°	±1°C
Accessories			
8182	Replacement Printing Paper (pack of 2 rolls)		
8183	Adaptor (for AC operation)		

For additional Type-K probes, see page 29.

Thermometer with Type-K Probe Specifications Chart

| Cat. No.	Page No.	Traceable® Certificate Supplied	Unit Range	Supplied Probe Range	Resolution	Accuracy (°C)	Length Probe	Cable	Battery	Display MIN/MAX	No. of Probes
4007	25	Yes	–328 to 2,498°F (–200 to 1,370°C)	–50 to 700°C	0.1°	±1.0	6.25 cm	1 m	1112	yes	1
4015	25	Yes	–328 to 2,498°F (–200 to 1,370°C)	–40 to 250°C continuous or 300°C short-term use	0.1° / 1°	±1.0	0.12 cm	1.2 m	1105	yes	1
4003	26	Yes	–328 to 2,372°F (–200 to 1,300°C)	–40 to 250°C continuous or 300°C short-term use	0.1° / 1°	±0.3% + 1°C	0.12 cm	1.2 m	1112	yes	1
4004	25	Yes	–58 to 2,000°F (–50 to 1,300°C)	–40 to 250°C continuous or 300°C short-term use	0.1° / 1°	±0.3% + 1°C	0.12 cm	1.2 m	1112	max only	1
4425	26	Yes	–58.0 to 2,372°F (–50.0 to 1,300°C)	–45 to 230°C	0.1°	±(1 + 0.75%)	5 cm	1 m	1112	no	1
4134	26	Yes	–50 to 1,999°F (–50 to 1,300°C)	–40 to 250°C continuous or 300°C short-term use	0.1°	±0.3% + 1°C	0.12 cm	1 m	1112	max only	1
4029	27	Yes	–50 to 1,999°F (–50 to 1,230°C)	–40 to 250°C continuous or 300°C short-term use	0.1°	±0.3% + 1°C	0.12 cm	1.2 m	1112	no	2
4135	27	Yes	–58 to 1,999°F (–50 to 1,300°C)	–40 to 250°C continuous or 300°C short-term use	1° or 0.1°	±0.3% + 1°C	0.12 cm	3 m (2)	1112	max only	2
4232	27	Yes	–58 to 1,382°F (–50 to 750°C)	–40 to 250°C continuous or 300°C short-term use	1°	±(1 + 0.75%)	0.12 cm	1.2 m	1112	no	1
4137	27	Yes	–50 to 1,999°F (–50 to 1,230°C)	–40 to 250°C continuous or 300°C short-term use	0.1°	±(1 + 0.75%)	0.12 cm	1.2 m (2)	1112	yes	2
4026	28	Yes	–40 to 1,200°C	–40 to 250°C continuous or 300°C short-term use	1°	±(1 + 1%)	0.12 cm	1.2 m	1112	no	2
4100	28	Yes	–328 to 2,431°F (–200 to 1,333°C)	–40 to 250°C continuous or 300°C short-term use	0.1°	±1.0	0.12 cm	1.2 m	1111	yes	2

**TRACEABLE®
PRODUCTS**

Type-K Beaded Probe

PTFE coated cable & beaded probe withstands wide temperature ranges

● Fast-response probe measures temperatures in semi-solids, liquids, air/gases

● High-precision thermocouple has efficient 1.2 m PTFE coated cable

Cat. No.	Probe Range	Probe Diameter	Cable Length
4028	–40 to 250°C continuous or 300°C short-term	0.15 cm	1.2 m
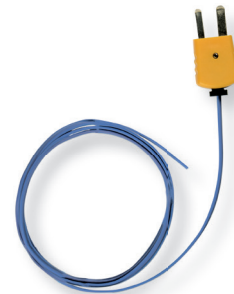
Stainless-steel Type-K Probe

Handle probe makes temperature measurement easy

● Probe provides fast, accurate readings of air/gases, semi-solids, liquids

● Stainless-steel probe with an ABS plastic handle

Cat. No.	Probe Range	Overall Length	Probe Diameter	Stem Length	Cable Length
4014	–50 to 700°C	19.0cm	0.3 cm	12.7 cm	1 m

Low Temperature Type-K Probe

Can be used in temperatures as low as –170°C

● Probe provides fast, accurate readings of air/gases, semi-solids, and liquids

● Stainless-steel probe with ABS plastic handle

Cat. No.	Probe Range	Overall Length	Probe Diameter	Stem Length	Cable Length
8039	–170 to 220°C	43.18 cm	0.4318 cm	30.48 cm	2.43 m

High Temperature Type-K Braided Probe

Can be used in temperatures as high as 1,093°C

● Beaded probe provides fast, accurate readings of air/gases, semi-solids, and liquids

● Stainless-steel probe attached to braided metal wire cable

Cat. No.	Probe Range	Cable Length	Cable Diameter
8613	–73 to 982°C continuous or 1,093°C short-term use	304.8 cm	0.4826 cm
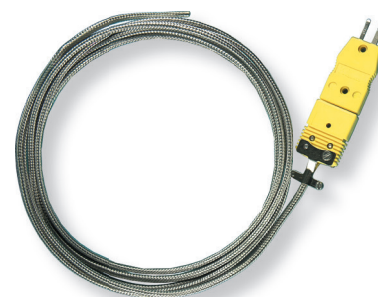
Type-K Surface Probe

Designed to take surface temperatures

● Probe provides fast, accurate readings of air/gases, semi-solids, and liquids

● Stainless-steel probe with ABS handle

Cat. No.	Probe Range	Overall Length	Probe Diameter	Stem Length	Cable Length
4008	–73 to 760°C	21.59 cm	1.27 cm	12.7 cm	9.14 m

Traceable® Certificate

Traceable® Infrared Thermometer Gun

Point-and-read gun provides temperature results of any surface in less than one second

- Easy-read display is back-lit, has low-battery indicator, and tracks maximum readings, °F/°C switchable
- DATA HOLD freezes display and gives time to accurately record readings
- Emissivity is 0.95 fixed and unit includes an auto-off feature
- Supplied: batteries, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view
4470	−76.0 to 932.0°F (−60.0 to 500.0°C)	0.1°	±2% of reading or ±2°C	11:1

Traceable® Infrared Thermometer with Type-K Probe

Handy infrared unit with Type-K probe delivers flawless °C/°F surface measurements every time

- Audible, user-settable, high and low alarms signal out of range conditions
- Memory permits recalling individually captured readings
- Emissivity is adjustable from 0.10 to 1.00
- Supplied: Type-K probe, batteries, Traceable® Certificate

Cat. No.	Measurement	Range	Resolution	Accuracy	Field of view
4482	Infrared	−76 to 932°F (−60 to 500°C)	0.1°	2% of reading or ±2°C	12:1
	Type-K Probe	−83 to 2,552°F (−64 to 1,400°C)	0.1°	±1°C + 2%	n/a

For additional Type-K probes, see page 29.

Traceable® Infrared Circle Laser Thermometer

Point-shoot-record with handy Type-K laser gun

- Dual lasers show the diameter of the area being measured, °F/°C switchable
- Thermometer displays the average of all measurements taken and the difference between the two readings
- Emissivity is adjustable from 0.1 to 1.00 in increments of 0.01
- Supplied: batteries, Type-K beaded sensor, Traceable® Certificate

Cat. No.	Measurement	Range	Resolution	Accuracy	Field of view
4485	Infrared	−76 to 1,022°F (−60 to 550°C)	0.1°	±2% of reading or ±2°C whichever is greater	12:1
	Type-K Probe	−83 to 2,552°F (−64 to 1,400°C)			n/a

For additional Type-K probes, see page 29.

Traceable® Noncontact Temperature Indicator

Internal laser target guide and Type-K compatibility make this infrared gun a 2-for-1 lab powerhouse

- Great for use in food preparation, clean rooms, electronics-where accuracy is imperative
- Emissivity is adjustable from 0.20 to 1.00
- HOLD functions allows time for user to record temperature readings, °F/°C switchable
- Memory function stores MIN/MAX readings
- Supplied: battery, Type-K beaded probe, carrying case, Traceable® Certificate

Cat. No.	Measurement	Range	Resolution	Accuracy	Field of view
4317	Infrared	−4.0 to 752°F (−20 to 400°C)	0.1°	±3% of reading or ±3°C	7:1
	Type-K	−148.0 to 2,372.0°F (−100.0 to 1,300.0°C)		±(1% + 2°F) or ± (1% + 1°C)	n/a

For additional Type-K probes, see page 29.

TRACEABLE®
PRODUCTS

Traceable® Infrared Thermometer Gun

High-performance, easy-to-operate infrared gun has incredible 50:1 field of view

- Instant, less-than-a-second temperature readings of any surface, °F/°C switchable
- Ideal for food preparation, pharmaceuticals, field use, electronics, and safety inspection
- Features minimum/maximum memory, average readings, and high/low audible alarms (Cat. No 4484)
- Supplied: battery, carrying case, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view	Emissivity
4483	–58 to 1,832°F (–50 to 1,000°C)	0.1°	±1.5% + 2°C between –20 to 200°C	50:1	Fixed at 0.95
4484					Adjustable from 0.10 to 1.00 in 0.01 steps

4483

Traceable® Infrared Thermometer with Memories/Alarm

Innovative, 9-memory infrared unit with alarm meets every touchless temperature reading need

- Nine memory sets of 4 values (MIN, MAX, ∆T, and AVG) are available and ready for recall
- Distinctive audible alarm sounds when temperatures rise above or drop below user-set limits
- Compact, 5-key unit takes temperature readings in less than 1 second, °F/°C switchable
- Emissivity is adjustable from 0.3 to 1.0
- Supplied: battery, wrist strap, soft carrying case, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view
4472	0 to 788°F (–20 to 420°C)	1°	2% of reading or ±2°C	8:1

Traceable® Infrared Thermometer with wristband

Laser beam permits perfect sample target sighting

- One button design makes operation easy, °F/°C switchable
- Emissivity is 0.05 to 1.00 in .01 steps
- Supplied: battery, wristband, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view
4481	–67 to 482°F (–55 to 250°C)	0.1°	±1°C + 2%	6:1

Traceable® Infrared Thermometer with pocket clip

Easy-to-carry design is ideal for blood bank labs

- Simple point-and-shoot operation, °F/°C switchable
- Unit reads both Fahrenheit and Celsius of any surface—solids, semi-solids, and liquids
- Fixed emissivity is precisely set at 0.95
- Supplied: battery, lanyard, pocket-clip, key-chain, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view
4480	–27.0 to 428.0°F (–33.0 to 220.0°C)	0.1° (–9.9 to 199.9), 1° otherwise	±1°C + 2%	1:1

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® Mini-IR™ Thermometer

Point-and-read, non-invasive IR mini-thermometer is super-reliable lab helper

- LOCK mode allows for 60 minutes of continuous readings without holding key down, °F/°C switchable
- Simple-to-set unit records minimum-only or maximum-only results for constantly changing targets
- Fixed emissivity is precisely set at 0.95
- Supplied: battery, key-chain, Traceable® Certificate

Cat. No.	Infrared Range	Resolution	Accuracy	Field of view
4475	–7 to 230°F (–22 to 110°C)	0.1°	±1°C between 15.0 to 40.0°C; ±1.5°C elsewhere	1:1

Infrared Thermometer Selection Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Range	Resolution	Accuracy	Field of View (1)	Emissivity (2)	MIN/MAX Readings	Hi/Lo Alarms	Battery	Special Features
4470	30	Yes	–76.0 to 932.0°F / –60.0 to 500.0°C	0.1°	±2°C or 1%	11:1	0.95 fixed	MAX only	N/A	1105	Trigger grip
4482	30	Yes	–76.0 to 932.0°F / –60.0 to 500.0°C	0.1°	±1°C + 2%	12:1	0.1 to 1.00*	Yes	Yes	1105	Trigger grip
4485	30	Yes	–76 to 1,022°F / –60 to 550°C	0.1°	±2°C or 2%	12:1	0.1 to 1.00*	Yes	Yes	1105	Dual lasers
4317	30	Yes	–4.0 to 752.0°F / –20.0 to 400.0°C	0.1°	±3°C or ±3%	7:1	0.2 to 1.00*	Yes	N/A	1112	Trigger grip
4472	31	Yes	0 to 788°F / –20 to 420°C	1°	±2°C or 2%	8:1	0.3 to 1.00*	Yes	Yes	1112	9 memories
4483	31	Yes	–58 to 1,832°F / –50 to 1,000°C	0.1° to 200, 1° over 200	±1.5% + 2°C	50:1	0.95 fixed	N/A	N/A	1112	Trigger grip
4480	31	Yes	–27 to 428°F / –33 to 220°C	0.1°	±1°C + 2%	1:1	0.95 fixed	N/A	N/A	1039	Pocket-clip/strap/key-chain
4481	31	Yes	–67 to 482°F / –55 to 250°C	0.1°	±1°C + 2%	6:1	0.5 to 1.00*	Yes	N/A	1005	Wrist strap
4475	32	Yes	–7.0 to 230°F / –22.0 to 110°C	0.1°	±1°C	1:1	0.95 fixed	Yes	N/A	1005	Key-chain

*Indicates adjustable emissivity in steps of 0.01°

(1) What is Field of View?

Field of View is similar to a flashlight. The further object is away, the bigger the diameter of the beam. The further you are from a sample, the larger the area the IR thermometer is measuring. For example: if the Field of View ratio for a thermometer is 6:1, then, when the thermometer is 15.2 cm from an object the sensor is looking at and measuring a 2.5 cm diameter. If the thermometer is 3.1 cm away, then the spot size being measured is 0.6 cm.

(2) What is Emissivity?

Emissivity refers to the amount of infrared radiation an object emits. The emissivity adjustment on IR thermometers is used to compensate for different materials. The default emissivity of 0.95 covers 90% of typical applications. For thermometers with adjustable emissivity a materials chart with suggested settings is provided. Generally very shiny, highly reflective surfaces require low emissivity settings.

TRACEABLE®
PRODUCTS

Traceable® Big-Digit Memory Thermometer

View ambient and probe temperatures from 25 feet

- Dual display permits reading ambient and probe temperatures simultaneously, °F/°C switchable
- MIN/MAX memory readings may be displayed and reset at the touch of a key
- Cable and sensor perform accurately when underwater, always-on instrument reads temperature constantly
- Supplied: flip-open stand, wall mounting, 3 meter cable, Velcro®, Traceable® Certificate, battery

Cat. No.	External probe range	Ambient sensor range	Resolution	Accuracy
4126	–58.0 to 158.0°F (–50.0 to 70.0°C)	23.0 to 122.0°F (–5.0 to 50.0°C)	0.1°	±1°C

Traceable® Big-Digit 4-Alert Alarm Thermometer

Flashing LED indicator and four different alarm configurations for multi-use operation

- Thermometer has 4 unique alarms configurations: alarm triggers when temperature is higher than set point, lower than set point, outside of high or low set points or inside higher and low set points allowing precise monitoring of any experiment
- Green/red lights blink and alarm sounds when out-of-range condition is detected
- Continuous alarm sounds every minute for 5 seconds until the temperature returns to non-alarm condition or alarm is turned off
- Large digits are readable from 3 meters
- Supplied: removable suction cup, stand, wall mount, 1 m cable, Traceable® Certificate, battery

Cat. No.	Range	Resolution	Accuracy	Probe
4142	–50.0 to 70.0°C	0.1°	±1°C	4.75 mm x 20.3 mm, waterproof, 1 m cable

Traceable® Disposable Temperature Strip-Chart Recorder

Provides a permanent record—easy to read, copy, fax, scan, file

- Disposable recorder with broad temperature range delivers °F/°C accuracy on same chart
- Solid-state, battery-driven, quartz-crystal-controlled motor makes operation error-free
- Temperature sensor is bimetallic and has an accuracy rate of better than 1 second per day
- Supplied: battery, chart paper, Traceable® Certificate

Cat. No.	Range	Accuracy	Records
4221	–20 to 100°F (–28 to 38°C)	±2°F (±1°C)	10 days
4222			40 days

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

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Traceable® Four-Channel Alarm Timer

The lab's most popular timer

- Features: count up/down, memory recall, alarm, 12/24 hour clock
- Massive 1.9 cm high display allows viewing from across the lab
- Remarkable memory returns display to previously programmed countdown time at the touch of a button
- High decibel alarm signals for 1 minute and may be silenced manually
- Supplied: clip, stand, magnet, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5004	99 hours, 59 minutes, 59 seconds	1 second	0.01%	4

Traceable® Multi-Colored™ Timer

Show your distinct style with customized bold colors—a fresh look for lab

- Features: count up/down, memory recall, alarm, 12/24 hour clock
- 3-bright colorful supplied frames permit personalisation of timer
- Unique memory returns channel to previously programmed setting at touch of a key
- Supplied: bench stand, magnetic back, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5012	99 hours, 59 minutes, 59 seconds	1 second	0.01%	4

Traceable® 100-Hour Timer

Lab workhorse provides 100 hour up/down timing on four channels

- Features: counts down/up, alarm, clock
- TIME IS UP message flashes on display during count-up mode
- Alarms sound for 60 seconds and may be silenced manually
- Supplied: battery, flip-open stand, clip, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5040	99 hours, 59 minutes, 59 seconds	1 second	0.01%	4

Traceable® Three-Channel Alarm Timer

Innovative timer has programmable alarm with adjustable volume control for any environment

- Features: count up/down, memory recall, alarm, clock, adjustable alarm duration/volume
- Triple display shows 3 different times at once; tests can be started individually or simultaneously
- Adjustable volume alarm can be set to sound for 60 seconds or to sound continuously until cleared
- Supplied: battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5000	99 hours, 59 minutes, 59 seconds	1 second	0.001%	3

**TRACEABLE®
PRODUCTS**

Traceable® Original Lab Timer

Three-channel lab staple gives years and years of reliable service

- Features: countdown, distinct alarm and display indicator per channel
- Simple-to-use timer is ideal for quality-control and experimental requirements
- Alarms sound for 60 seconds or may be turned off manually
- Supplied: batteries, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5002	9 hours, 59 minutes, 59 seconds	1 second	0.001%	3

Traceable® Triple-Display Timer

Triple-line display makes easy work of simultaneously timing three events

- Features: count up/down, time in/out, memory, alarm, stopwatch, 12/24-hour clock
- Unique memory returns channel to previously programmed setting at touch of a key
- When zero is reached, distinct alarm sounds and timer counts up showing time elapsed since alarm
- Supplied: battery, magnetic back, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5025	19 hours, 59 minutes, 59 seconds	1 second	0.01%	3

Traceable® Three-Line Alarm Timer

Unique, 3-channel timer is perfect for use in all count up/down timing combinations

- Features: alarm for each channel sounds for 60 seconds, count up/down, memory recall, clock
- Display: 3-line LCD with 0.9 cm high digits
- Supplied: clip, stand, magnet, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5008	99 hours, 59 minutes, 59 seconds	1 second	0.01%	3

Traceable® Flashing LED Alert Big-Digit Alarm Timer

Big-Digit Timer has it all—adjustable alarm volume, flashing led, superb accuracy

- Features: count up/down, flashing LED, adjustable volume
- Green light flashes every second after timing begins; red LED indicator flashes when zero is reached and shows time elapsed since alarm
- Adjustable volume: high decibel, low decibel, or off for silent visual flashing LED operation
- Supplied: batteries, magnetic back, flip-open stand/ clip, opening for lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5017	99 hours, 59 minutes, 59 seconds	1 second	0.01%	2
5013	99 minutes, 59 seconds			1

5017

Traceable® Nano™ Timer

Small design—large display

- Features: countdown alarm, time/stopwatch (count-up) time, or 12/24 hour clock
- Two-channel memory automatically returns display to original programmed time
- Supplied: battery, clip/stand, magnet on back, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5132	23 hours, 59 minutes, 59 seconds	1 second	0.01%	2

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Traceable® Flashing LED Vibrating Timer

Pocket-sized timer vibrates and flashes when time's up

● Automatic Bounceback™ Memory for repetitive timing
● Counts up after time is up indicating elapsed time since alarming
● Supplied: magnetic back, stand/spring-clip, Traceable® Certificate, battery, and opening for lanyard

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5233	19 hours, 59 minutes	1 second	0.01%	1

Traceable® Blue-Steel™ Timer

Fast-setting stylish timer with Automatic-Bounceback™ memory

● Use fast-forward function to quickly set the countdown time
● Automatic Bounceback™ Memory for repetitive timing
● Supplied: strong magnet, sturdy flip open stand, battery, and Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5128	99 minutes, 99 seconds	1 second	0.01%	1

Traceable® Jumbo Timer

Read display from any angle

● Features: count up/down, time in/out, memory, alarm, 12/24 hour clock, stopwatch
● Adjustable jumbo display from 90° to 180°
● When zero is reached, distinct alarm sounds and timer counts up showing time elapsed since alarm
● Supplied: battery, stand, wall-mount, Traceable® Certificate

5022

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels	Unit color
5022	23 hours, 59 minutes, 59 seconds	1 second	0.01%	2	Black
5023					White

Traceable® Two-Memory Timer

Popular bench-mate with memory is ideal for repetitive tests

● Features: count up/down, time in/out, memories, 12/24 hour clock
● Automatic Bounceback™ Memory for repetitive timing per channel
● Supplied: battery, magnet, flip-open stand/clip, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5006	23 hours, 59 minutes, 59 seconds	1 second	0.01%	2

Traceable® Extra, Extra Large Digit Countdown Timer

Extreme 3 cm digit height allows viewing from 60 feet

● Features: count up/down, memory, alarm, stopwatch
● Unique memory returns channel to previously programmed setting at touch of a key
● Supplied: hanger, clip, easel bench stand, magnetic back, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5135	99 minutes, 59 seconds	1 second	0.01%	1

T R A C E A B L E®
P R O D U C T S

Traceable® GIANT-DIGIT™ Countdown Timer

View 3.4 cm giant size digits on your bench timer from across lab

- Features: countdown/up, memory, stopwatch mode
- Unique memory returns channel to previously programmed setting at touch of a key
- Supplied: stand, magnetic back, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5011	99 minutes, 59 seconds	1 second	0.01%	1

Traceable® Lab-Top Timer

Innovative display designed to be clearly seen from any angle

- Features: count down/up, memory, clock, large keys
- In countdown mode when unit reaches zero, alarm sounds and timer counts up showing time elapsed since alarm; TIME'S UP flashes on display
- MEMORY stores most recently programmed time and provides quick access for repetitive tasks
- Supplied: battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5007	23 hours, 59 minutes, 59 seconds	1 second	0.01%	1

Traceable® Alarm Timer/Stopwatch

Numbered, quick-set keys make programming timer a breeze

- Features: count up/down, time-out, alarm
- Numbered keys make it a breeze to set countdown time
- Supplied: clip, stand, magnet, opening for lanyard, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5020	99 minutes, 99 seconds	1 second	0.01%	1

Traceable® 99M/59S Timer

Jumbo-digit, light weight, portable lab partner is ideal for repetitive countdown tests

- Features: count up/down, memory, large keys, extra large digits, alarm
- Unique memory resets display to last programmed time for quick repeat of frequent, routine tests
- Supplied: battery, magnet, flip-open stand, clip, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5028	99 minutes, 59 seconds	1 second	0.01%	1

Traceable® Certificate

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Traceable® Memory Timer

Unique timer counts down with an alarm and remembers setting

- Unique memory returns display to previously programmed time at touch of a key
- Loud-beeping alarm sounds for 60 seconds or may be turned off manually
- Supplied: battery, clip/stand, magnetic back, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5030	23 hours, 59 minutes to 1 minute	1 minute	0.01%	1

Traceable® Talking Timer

Talks, counts down, counts up and tells time with Traceable® precision

- Timer speaks in English announcing time remaining, time elapsed since alarm was triggered, and time
- Six distinct alarm sounds make this timer ideal for purchasing multiple units and setting each one to a different alarm sound
- Supplied: magnetic back, flip-open stand, spring fastener, lanyard opening, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5015	23 hours, 59 minutes, 59 seconds	1 second	0.01%	1

Traceable® Advanced Memory Timer

Timer remembers last time set, counts down, alarms, and counts up

- Features: count-up/count-down/clock
- Clock channel features time of day to the second with AM/PM indicators
- Remarkable memory returns display to the previously programmed countdown time at the touch of a key
- Visual alarm displays TIME'S UP
- Supplied: clip, magnet, flip-open stand, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5035	23 hours, 59 minutes, 59 seconds	1 second	0.01%	1

Traceable® Triple-Purpose Timer

Displays countdown alarm time, stopwatch time, and time

- Features: big-digits, countdown alarm time, stopwatch, 12/24-hour clock
- Full 0-9 keyboard makes entering times exceptionally fast
- Supplied: magnetic back, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5027	9 hours, 59 minutes, 59 seconds	1 second	0.01%	1

Traceable® Fingertip Timer

Quick-to-program, countdown timer delivers error-free operation for any lab test

- Features: count down, time in/out, alarm
- Impressive memory remembers most-recently-programmed setting for recurring lab experiments
- Supplied: battery, magnetic back, Velcro®, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5042	99 minutes, 59 seconds	1 second	0.01%	1

TRACEABLE®
PRODUCTS

Traceable® Waterproof/Steam-proof Timer

Affix this timer anywhere using removable suction cup

- Features: countdown/up, memory recall, waterproof, steamproof
- Ideal for use in wash-down areas, wet labs, manufacturing plants or field work
- Impressive memory remembers most-recently-programmed setting for recurring lab experiments
- Supplied: stand, removable suction-cup, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5200	99 minutes,59 seconds	1 second	0.01%	1

Traceable® Instant-Recall Memory Timer

Delivers accurate results for lab's demanding countdown requirements

- Features: count down, time in/out, memory
- Intuitive, 3-key programming make this all-time-favorite perfect for delivering countdown results
- Valuable time-out function permits unlimited time-outs without having to reset timer
- Supplied: battery, flip-open stand, clip, magnetic back, opening for lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5122	99 minutes, 59 seconds	1 second	0.01%	1

Traceable® LCD Timer

Compact, 6-digit-display multi-tasker offers easy count up/down timing

- Features: count up/down, time in/out, memory, clock
- When countdown timing reaches zero, TIMES UP flashes on display, alarm sounds, and timer counts up showing time elapsed since alarm
- Supplied: battery, flip-open stand, clip, magnet, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
8906	23 hours, 59 minutes, 59 seconds	1 second	0.01%	1

Traceable® QC Timer

Simple 3-key use and large digits for easy viewing

- Features: count up/down
- When countdown timing reaches zero, TIMES UP flashes on display, alarm sounds, and timer counts up showing time elapsed since alarm
- Supplied: battery, flip-open stand, clip, magnet, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5026	19 hours, 59 minutes to 1 minute	1 minute	0.01%	1

Traceable® Visual Alarm Timer (9999m)

Memory resets to last programmed time—ideal for repetitive tests

- Features: count up/down, time in/out, alarm
- Lightweight, mini-size, 3-key operation provides fast, user-friendly, reliable service
- Extended time makes this unit ideal for long test runs
- Supplied: battery, stand, magnet, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5133	9999 minutes to zero	1 second to 1 minute	0.01%	1

Traceable® Certificate

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Traceable® Clip-It™ Timer

Perennial favourite multi-tasking timer attaches to any lab surface

- Features: count up/down, alarm
- Helpful memory saves last programmed setting for quick recall—useful for repetitive timing events
- Supplied: clip, magnet, opening for lanyard, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5046	99 hours, 59 minutes, 59 seconds	1 second	0.005%	1
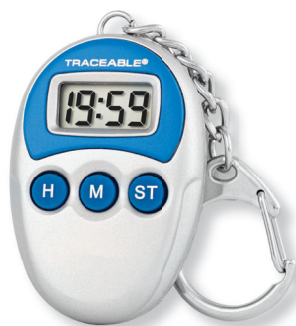
Traceable® Key-Chain Timer

Cleverly-designed, portable timekeeper travels anywhere

- Features: key-chain, count up/down, time in/out, alarm, stopwatch
- In stopwatch mode, timer counts up from 1 second to 20 minutes then rolls over and counts up again
- At zero, alarm sounds for 60 seconds and timer shuts off automatically
- Supplied: battery, key-chain, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5041	19 hours, 59 minutes (countdown) 19 minutes, 59 seconds (count up)	1 minute (countdown) 1 second (count up)	0.01%	1

Traceable® Digital Timer Plus

Handiest timer ever designed clips to any surface

- Features: count up/down, time in/out, key-chain, alarm
- When zero is reached, alarm sounds for 60 seconds or may be silenced manually
- Supplied: key-chain, clip, magnet, opening for lanyard, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5045	99 hours, 59 minutes, 59 seconds	1 second	0.005%	1

Traceable® Pocket Timer

Quick and effortless operation delivers quartz-crystal accuracy

- Features: key-chain, count up/down, time in/out, memory, alarm
- When countdown timing reaches zero, alarm sounds, display flashes, and unit counts up showing time elapsed since alarm
- Supplied: battery, key-chain, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
1060	19 hours to 59 minutes	1 minute	0.015%	1

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TRACEABLE®
PRODUCTS

Traceable® Water-Resistant, Flashing Timer
Perfect timer for wet labs, wash-down areas, manufacturing plants and field use
- Features: water-resistant, splash proof, count up/countdown, alarm, lanyard
- Bright LED flashes at zero to indicate alarm is sounding
- Infinite timeouts
- Audible alarm sounds for 1 minute or can be manually turned off
- Supplied: lanyard, suction cup, magnet, Velcro®, battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Channels
5036	99 minutes, 59 seconds	1 second	0.01%	1

Quick-Timer™
Easy-to-read, and use—no keys, no batteries
- Features: count down, key-chain, lanyard
- Loud five-second bell rings at zero
- Turning the pointer to the desired countdown automatically winds timer; indicating pointer always show exact time remaining
- Supplied: key-chain, lanyard

Cat. No.	Timing Capacity	Resolution	Description
1092	0 to 60 minutes	1 minute	blue/white, with magnet on back, diameter 5.7 x 2.5 cm, weight is 85 g

SX-Timer™
Easy-to-read, and use—no keys, no batteries
- Features: count down, key-chain, lanyard
- Loud five-second bell rings at zero
- Turning the pointer to the desired countdown automatically winds timer; indicating pointer always show exact time remaining
- Supplied: key-chain, lanyard

Cat. No.	Timing Capacity	Resolution	Description
1093	0 to 60 minutes	1 minute	translucent blue/white, diameter 5.7 x 2.5 cm, weight 63.7 g

60-Minute Interval Timer
Stands on lab bench at a viewing angle
- Features: count down, no batteries
- Bell sounds at end of cycle

Cat. No.	Timing Capacity	Resolution	Size
1062	0 to 60 minutes	1 minute	9.5 x 9.5 x 5 cm

Traceable® Certificate
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Timer Selection Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Accuracy	Maximum Time	Resolution	Channels	Battery	Clock	Memory	Features
5000	34	Yes	0.00%	100 Hours	1 Second	3	1105	Yes	Yes	Continuous alarm
5004	34	Yes	0.01%	100 Hours	1 Second	4	1039	Yes	Yes	4-channel countdown/up
5012	34	Yes	0.01%	100 Hours	1 Second	4	1039	Yes	Yes	Personalize your timer
5040	34	Yes	0.01%	100 Hours	1 Second	4	1039	Yes	Yes	Easy to program
5002	35	Yes	0.00%	10 Hours	1 Second	3	1111	No	Yes	3 timing channels
5008	35	Yes	0.01%	100 Hours	1 Second	3	1039	Yes	Yes	3-line display
5013	35	Yes	0.01%	100 Minutes	1 Second	1	1105	No	Yes	Automatic memory
5017	35	Yes	0.01%	100 Hours	1 Second	2	1105	No	Yes	Large display
5025	35	Yes	0.01%	20 Hours	1 Second	3	1105	Yes	Yes	Triple-display
5132	35	Yes	0.01%	24 Hours	1 Second	2	1039	Yes	Yes	Ultra-compact
5128	36	Yes	0.01%	100 Hours	1 Second	1	1039	No	Yes	Durable metal housing
5006	36	Yes	0.01%	24 Hours	1 Second	2	1039	Yes	Yes	2-channel countdown/up
5022	36	Yes	0.01%	24 Hours	1 Second	2	1105	Yes	Yes	Jumbo-display black
5023	36	Yes	0.01%	24 Hours	1 Second	2	1105	Yes	Yes	Jumbo-display white
5233	36	Yes	0.01%	20 Hours	1 Second	1	1105	No	Yes	Vibrates and Flashes LED
5007	37	Yes	0.01%	24 Hours	1 Second	1	1111	Yes	Yes	Innovative design
5011	37	Yes	0.01%	100 Minutes	1 Second	1	1105	No	Yes	Jumbo digits
5028	37	Yes	0.01%	100 Minutes	1 Second	1	1105	No	Yes	Automatic memory
5135	37	Yes	0.01%	100 Hours	1 Second	1	1105	No	Yes	Extra-extra-large digits
5020	37	Yes	0.01%	100 Minutes	1 Second	1	1039	No	No	Numbered Keys
5015	38	Yes	0.01%	24 Hours	1 Second	1	1039	Yes	Yes	Repeat countdown and talking
5027	38	Yes	0.01%	10 Hours	1 Second	1	1105	Yes	Yes	Clock, timer, stopwatch
5030	38	Yes	0.01%	24 Hours	1 Second	1	1039	No	Yes	Memory
5035	38	Yes	0.01%	24 Hours	1 Second	1	1039	Yes	Yes	Compact all-in-one
5042	38	Yes	0.01%	100 Minutes	1 Second	1	1039	No	Yes	Easy to use
5026	39	Yes	0.01%	20 Hours	1 Minute	1	1105	No	No	Easy 3-key operation
5122	39	Yes	0.01%	100 Minutes	1 Second	1	1105	No	Yes	Memory
5133	39	Yes	0.01%	9999 Minutes	1 Second	1	1105	No	Yes	Times up, flashing LED
8906	39	Yes	0.01%	24 Hours	1 Second	1	1039	No	Yes	Compact timer with clock
5200	39	Yes	0.01%	100 Minutes	1 Second	1	1039	No	Yes	Removable suction-cup
1060	40	Yes	0.02%	20 Hours	1 Minute	1	1104	No	No	Key-chain
5041	40	Yes	0.01%	20 Hours	1 Minute	1	1039	No	Yes	Key-chain
5045	40	Yes	0.01%	100 Hours	1 Second	1	1039	No	No	Key-chain
5046	40	Yes	0.01%	100 Hours	1 Second	1	1039	No	Yes	Clips to everything
1062	41	No	n/a	60 Minutes	1 Minute	n/a	n/a	No	No	Mechanical
1092	41	No	n/a	60 Minutes	1 Minute	n/a	n/a	No	No	Magnet and lanyard
1093	41	No	n/a	60 Minutes	1 Minute	n/a	n/a	No	No	Lanyard and key-chain
5036	41	Yes	0.01%	100 Minutes	1 Second	1	1039	No	Yes	Water-resistant

TRACEABLE®
PRODUCTS

Traceable® Radio-Controlled Atomic Clock

View time, temperature and humidity from anywhere

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date, day, leap year
- Temperature range: 0 to 45°C (32 to 113°F); resolution: 0.1°; accuracy: ±1°C
- Humidity range: 20 to 90% RH; resolution: 0.1%; accuracy: ±5% mid-range, ±8% otherwise
- Supplied: case (1.3 x 11.3 x 17") wall mount, bench stand, batteries, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Features
1088	12/24 hours	1 second	1/10,000 second	Giant digits display time, temperature and RH
1089	12/24 hours	1 second	1/10,000 second	Weather forecast indicator; supplied: remote unit

Remote Unit

Traceable® GIANT-DIGITS™ Radio Atomic Clock

View time and temperature from anywhere

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date, day, leap year, Earth's wobble in leap seconds
- Temperature range: 23 to 122°F (–5 to 50°C); resolution: 0.1°; accuracy: ±1°C
- Supplied: wall mount, bench stand, batteries, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size
1087	12/24 hours	1 second	1/10,000 second	16½ x 10½ x 1¾ inches

Traceable® Radio-Controlled Wall Atomic Clock

Adjusts automatically for daylight savings, leap year, and leap seconds

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date and day
- Temperature range: 32 to 122°F (0 to 50°C); resolution: 0.1°
- Supplied: wall mount, bench stand, batteries, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size/Weight
1076	12/24 hours	1 second	1/10,000 second	11 x 7¼ x ¾ inch; 1 pounds

Traceable® Analog Radio-Controlled Wall Atomic Clock

Large numbers and bright, sweeping second hand are highly visible

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct time
- Supplied: wall mounting slot, batteries, Traceable® Certificate, screw

Cat. No.	Time feature	Resolution	Accuracy	Size/Weight
1077	12/24 hours	1 second	1/10,000 second	12 inches x 2 inches; 1⅜ pounds

Traceable® Certificate

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Workstation—Traceable® Radio-Controlled Atomic Clock

World's most accurate clock for your workstation

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date, day, back-lit display, alarm
- Alarm volume increases until turned off
- Ideal for recording the receiving of samples or noting the exact time an event occurred
- Temperature range: 32 to 158°F (0 to 70°C); resolution: 0.1°C; accuracy: ±1°C
- Supplied: bench stand, batteries, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size/Weight
5125	12/24 hours	1 second	1/10,000 second	2½ x 3 x 1½", 4 ounces

Traceable® Radio-Controlled Atomic Clock

Back-lit display for viewing in dark places

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date, day, back-lit display
- Temperature range: 32 to 158°F (0 to 70°C); resolution: 0.1°C; accuracy: ±1°C
- Relative humidity range: 20 to 85%; resolution: 1% RH; accuracy: ±3% mid range
- Supplied: bench stand, batteries, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size/Weight
5003	12/24 hours	1 second	1/10,000 second	4¼ x 4¼ x 2½", 6 ounces

Traceable® Thermometer/Clock/Humidity Monitor

Simultaneously displays time of day, temperature, and humidity

- Features: MIN/MAX memory, memory clear, °F/°C switchable, 12/24-hour clock
- At the touch of a button, memory recalls the highest and lowest temperature and humidity readings
- Internal sensors make it ideal for use in hoods, storerooms, cleanrooms, incubators, drying chambers and environmental cabinets
- Supplied: stand, wall mount, double-back tape, batteries, Traceable® Certificate

Cat. No.	Feature parameters	Resolution	Accuracy	Size/Weight
4040	Time: 12/24 hours	1 minute	0.01%	4¼ x 2¼ x ½", 2½ ounces
	Temp: 0.0 to 50.0°C	0.1°	±1°C	
	Humidity: 20 to 90% RH	1%	±5% RH midrange otherwise ±8% RH	

Traceable® Calendar/Thermometer/Clock

Clock has stylish 2-tone color and slim silhouette

- Features: time, date/day, temperature
- Supplied: battery, wall-mount, Traceable® Certificate

Cat. No.	Feature parameters	Resolution	Accuracy	Size/Weight
1072	Time: 12/24 hour clock	1 minute	0.01%	9¼ x 10 x 1", 19 ounces
	Temp: −5 to 50°C	0.1°	n/a	

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TRACEABLE® PRODUCTS

Traceable® Clock/Thermometer/Humidity

Simultaneously displays time, temperature, and humidity on wall or lab bench

- Features: analog time, temperature; humidity
- Crisp reading dials and bright orange sweeping second hand provides superior visibility
- Low-profile slim design has impact-resistant ABS case
- Supplied: battery, wall mount screw, Traceable® Certificate

Cat. No.	Feature parameters	Resolution	Accuracy	Size/Weight
1079	Time: AM/PM clock	1 second	0.01%	Clock dial: 9 inches
	Temp: –37 to 47°C	2°C	n/a	Temp/Humidity dials: 3 inches
	Humidity: 8 to 92%	2%	n/a	Overall: 12½ x 11 x 1-inch; 1⅝ pounds

Traceable® Waterproof Indoor/Outdoor Clock

Ideal for washdown areas and harsh environments

- Features: O-ring sealed, waterproof ABS impact-resistant case, displays °F/°C simultaneously
- Supplied: wall mount, batteries, Traceable® Certificate

Cat. No.	Feature parameters	Resolution	Accuracy	Size/Weight
1078	Time: AM/PM	1 second	0.01%	7 inch diameter, dial: 5 inches;
	Temp: –20 to 40°C	1°	±1.5°C	12 ounces

Traceable® Clock Thermometer/Humidity

Bright, sweeping hands simultaneously display time, temperature, and humidity on wall

- Features: analog time, temperature, humidity
- Supplied: battery, wall mount screw, Traceable® Certificate

Cat. No.	Feature parameters	Resolution	Accuracy	Size/Weight
1071	Time: AM/PM clock	1 second	0.01%	12½-inch diameter, 1 pound
	Temp: –20 to 55°C	1°	n/a	
	Humidity: 0 to 100%	2%	n/a	

Traceable® Wall Clock

Attractive 30 cm wall clock tell time of day to second

- Features: water/dust resistant sealed case, bright sweeping second hand
- Supplied: battery, wall mount, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size/Weight
1067	AM/PM clock	1 second	0.01%	12½-inch diameter, 1 pound

Traceable® Stick-it™ Mini-Clock

Small size makes mini-clock perfect for work area

- White timing hands give superior visibility
- Flat bottom permits standing on shelf, desk or bench
- Supplied: Velcro®, double-sided tape, battery, Traceable® Certificate

Cat. No.	Time feature	Resolution	Accuracy	Size
1003	AM/PM clock	1 second	0.01%	1.6 inch dia. x 0.3 inch

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Traceable® Countdown Controller

Counts down from 23hrs, 59min, 59sec

- Features: programs to 24 hours, turns equipment on/off, manual override, time, backup battery
- Can operate in countdown or time-of-day mode, which permits programming 14 different time-of-day clock switchings, up to 196 on/off switchings per week
- CSA-and NTRL-C-rated
- Supplied: battery, Traceable® Certificate

Cat. No.	Timing Capacity	Horsepower	Accuracy	Power Capacity
5095	1-minute intervals from 23 hours, 59 minutes to 1 minute	1/3	0.01%	125 VAC, 15 amps, 1800 watts

Traceable® Outlet Controller

14 time switchings per day, up to 196 switchings per week

- Features: turns equipment on/off, manual override, memory, random interval setting, time-of-day program, backup battery
- AM/PM day programs allow repeating same cycle everyday, weekdays only, or any selected days
- CSA-and NTRL-C-rated
- Supplied: battery, Traceable® Certificate

Cat. No.	Timing Capacity	Horsepower	Accuracy	Power Capacity
5090	1 min to 168 hrs	1/3	0.01%	125 VAC, 50/60 Hz, 15 amps, 1850 watts

Traceable® Temperature Controller

Turn equipment on/off at any temperature

- Features: 3 memories, manual override, clock, battery backup
- Turns any piece of equipment on or off when temperature rises above/falls below low set point, schedule timer on/off settings can be pre-set
- Controller can be set in 1 degree increments
- Supplied: battery, Traceable® Certificate

Cat. No.	Range (low)	Range (high)	Temperature Accuracy	Power Capacity
4130	–4 to 140°F/–20 to 60°C	32 to 140°F/0 to 60°C	±1°C	115 VAC, 15 amps, 1800 watts

Traceable® Humidity Controller

Ideal for turning humidifiers and dehumidifiers on or off

- Features: manual override, battery backup, alarm
- Turns any piece of equipment on or off when relative humidity rises above/falls below low set point, timer on/off settings can be pre-set
- Program higher ON/lower OFF or lower ON/higher OFF at any set point within range
- Supplied: rechargeable battery, Traceable® Certificate

Cat. No.	Range	Horsepower	Humidity Accuracy	Power Capacity
4190	30 to 90% RH (increments of 1%)	1/3	±5% RH	125 VAC, 15 amps, 1800 watts

TRACEABLE®
PRODUCTS

Traceable® Walkaway™ Turn-Off Controller

Intuitive operation permits program setting in less than 5 seconds

- Performs reproducible stirring, heating, or pumping times; ideal for timed shutdown/repeated on/off timing
- Features: battery backup, manual override
- Automatic operation allows walking away from equipment
- LED lights indicate status of attached equipment
- Manual pause switch overrides program without disturbing it, and permits equipment to be switched off instantly

Cat. No.	Timing Capacity	Horsepower	Accuracy	Power Capacity
5057	0.01 sec to 99.99 secs; 1 min to 9999 mins; or 1 hr to 9999 hrs	1/3	0.01%	120 VAC, 15 amps, 1800 watts

Traceable® Walkaway™ Repeat Turn-on/Turn-off Controller

Intuitive operation permits program setting in less than 5 seconds

- Performs reproducible stirring, heating, or pumping times; ideal for timed shutdown/repeated on/off timing
- Features: battery backup, manual override
- Automatic operation allows walking away from equipment
- LED lights indicate status of attached equipment
- Manual pause switch overrides program without disturbing it, and permits equipment to be switched off instantly
- Continuously repeats on/off switchings until manually stopped (5058 only)

Cat. No.	Timing Capacity	Horsepower	Accuracy	Power Capacity
5058	1 sec to 99 secs; 1 min to 99 mins; and 1 hr to 99 hrs	1/3	0.01%	120 VAC, 15 amps, 1800 watts

24-Hour/7-Day Controller

Easy-to-set controllers are ready to use out of box, program in less than a minute

- Fast, easy index pin memory permits programming unit to exact time requirements
- Repeats cycle daily or weekly; has manual override

5060

5070

Cat. No.	Timing Capacity	Horsepower	Power Capacity
5060	24-hours (15-minute increment)	1/3	125 VAC, 15 amps, 1875 watts
5070	7-day (2-hour increment)	1/3	125 VAC, 15 amps, 1875 watts

Traceable® Certificate

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Traceable® 300-Memory Stopwatch

Three-line display shows running time, cumulative-split, and interval-split

- Features: water-resistant, 300 memories, count up/down, programmable countdown alarm, alarm, clock
- Stopwatch functions: single-action, time in/out, continuous timing, cumulative split, interval split
- Interval split shows longest, shortest and average times
- Supplied: detachable clip, battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1052	9 hours, 59 minutes, 59 seconds, 99 hundredths	0.01 second	0.001%	A, B, C, D, E, F, G, H, I

Traceable® 60-Memory Stopwatch

Extra smart 10-hour time keeper recalls 60 events

- Features: 60 memories, alarm, time, date, day of week
- Stopwatch functions: single action timing, time in/out, continuous timing, cumulative split, interval split, countdown I and II, auto-repeat
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1025	9 hours, 59 minutes, 59 seconds	1 second	0.001%	A, B, C, D, E, F, G, H, I

Traceable® Stopwatch/Repeat Timer

Universal stopwatch provides repeat function of countdown alarm timing

- Features: 8 memories, chronograph, pacer, alarm
- Display count box shows how many times cycle has been repeated
- Stopwatch functions: single action, time in/out, cumulative split, interval split, continuous timing
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1048	9 hours, 59 minutes, 59 seconds, 99 hundredths	0.01 second	0.001%	A, B, C, D, E, F, G, H, I

Traceable® Big-Digit Stopwatch/Chronograph

Utility unit has complete stopwatch functions and full chronograph features

- Features: big-digit, chronograph, time of day in hours, minutes, seconds, AM/PM, date, day, time-of-day alarm
- Stopwatch functions: single action, time in/out, cumulative split, continuous timing
- Extra-tough ABS plastic shockproof construction makes unit ideal for lab and plant use
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1047	23 hours, 59 minutes, 59 seconds	0.01 second (0 to 30 min); 1 second (>30 min)	0.0035%	A, B, C, D

Traceable® Decimal Stopwatch

Extremely accurate stopwatch designed for ease of operation and reliability

- Features: 500 memories, clock, date, day of week, time-of-day alarm
- Decimal stopwatch's four timing formats/resolution are: HR/MIN/SEC; 1/100 SEC; 1/1000 min; 1/100,000 hr; maximum readouts are 19.999999 HR, 1199.999 MIN, 71999.99 SEC, or 19 hr/59 min/59 sec/99 hundredths
- Stopwatch functions: single action, time out, cumulative split, interval split, continuous roll-over timing
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Accuracy	Timing Functions
1031	19 hours, 59 minutes, 59 seconds, 99 hundredths	0.0005%	A, B, C, D, E, F

**TRACEABLE®
PRODUCTS**

Traceable® Digital Stopwatch

Extremely accurate stopwatch make this a lab must-have

- Features: large digits, water-resistant, constructed to seal out moisture, dust and fumes, alarm
- Stopwatch functions: single action, time out, cumulative split, interval split, continuous roll-over time
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1030	9 hours, 59 minutes, 59 seconds, 99 hundredths	0.01 second	0.0005%	A, B, C, D, E

Traceable® Dual-Display Digital Stopwatch

Dual-display, quartz-crystal stopwatch with cycle counter

- Features: 8 memories, alarm
- Stopwatch functions: single action, time out, cumulative split, interval split, continuous roll-over timing
- Dual display shows cumulative and interval split
- Display count box shows how many times the cycle has been repeated
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1034	9 hours, 59 minutes, 59 seconds, 99 hundredths	0.01 second	0.0005%	A, B, C, D, E, F

Traceable® Jumbo-Digit Stopwatch

Vivid, large stopwatch digits provide ease in reading

- Features: water-resistant, time-of-day alarm, ABS plastic case, AM/PM, date, day, alarm
- Stopwatch functions: single-action, time-out, cumulative-split, and continuous timing
- Supplied: Velcro®, Traceable® Certificate, battery, lanyard, detachable clip

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1051	23 hours, 59 minutes, 59 seconds	1/100 of a second (between 0 to 30 minutes) 1 second (between 31 min to 23 hr 59 min 59 sec)	0.001%	A, B, C, D

Traceable® Stopwatch/Chronograph

Extra-tough construction with alarm

- Features: shock-resistant ABS plastic case, AM/PM, date, day, alarm, clock
- Stopwatch functions: single-action, time-out, cumulative-split, and continuous timing
- Supplied: lanyard, Traceable® Certificate, battery

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1037	24 hours	0.01 second	0.001% (Ultra™)	A, B, C, D
1044			0.01%	

1037

Traceable® Waterproof/Shockproof Stopwatch

General purpose stopwatch is waterproof to three atmospheres

- Features: waterproof, chronograph, time of day in hours, minutes, and seconds, date, day, and alarm
- Stopwatch functions: single action, time out, cumulative split, interval split, continuous timing
- Supplied: battery, key-chain, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Color	Timing Functions
1042	23 hours, 59 minutes, 59 seconds	1/100 of a second (between 0 to 30 minutes) 1 second (between 31 min to 23 hr 59 min 59 sec)	0.01%	Yellow	A, B, C, D, E
1045				Black	

1042

51

Traceable® Countdown Stopwatch

Programmable, single-action stopwatch reliable for frequent tasks

- Features: 8 memories, countdown/alarm timing in pre-programmed increments: 1-3, 5, 10, 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 min
- Stopwatch functions: single action, time in/out, cumulative split, interval split, continuous timing
- Dual display timer mode can be used in 3 ways: 2 different countdown times simultaneously, 2 independent countdown alarm timers, and 2 independent count up timers
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1035	99 hours, 59 minutes, 59 seconds, 99 hundredths	1/100 second	0.01%	A, B, C, D, E

Traceable® Three-Key Stopwatch

The first disposable stopwatch

- Stopwatch functions: single action timing, time-in/time-out timing, cumulative split timing, continuous timing
- Supplied: battery, lanyard, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1043	23 hours, 59 minutes, 59 seconds, 99 hundredths	0.01 second	0.01%	A, B, C, D

Traceable® Digital Bench-top Timer

Unique external triggering capability provides broad array of timing options

- Features: large LCD screen, lab-bench footprint
- Stopwatch functions: time in/out timing, cumulative split and interval split, infinite time outs
- Three 4mm sockets and supplied test leads allow external triggering of STOP/START and SPLIT/LAP/RESET
- Supplied: battery, test leads, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1221	9 hours, 59 minutes, 59 seconds, and 99 hundredths	0.01 second	0.001%	A, B, D, E

Traceable® Bench Timer

Times 12 events simultaneously on a lab bench

- Features: large digits, bright LED display, battery backup, alarm
- Stopwatch functions: single action, time in/out, cumulative split, interval split
- Ultra-high stability and sealed quartz-crystal provide precision timing immune to AC line fluctuations
- For use with 120 VAC AC power
- Supplied: back-up battery, Traceable® Certificate

Cat. No.	Timing Capacity	Resolution	Accuracy	Timing Functions
1021	99 hrs, 59 mins, 99 hundredths; 99999.999 sec; 9999.9999 min; 999.99999 hrs	0.001 seconds	0.001%	A, B, C, D, E, H

TRACEABLE®
PRODUCTS

Stopwatch Timing Features

A **Single Action Timing:** Pressing start key begins timing, a second press stops clock.

B **Time-out/Time-in:** Records total elapsed time with any number of "time-outs". Permits stopping timer for "off" periods, holds reading where stopped, and starts again from that point.
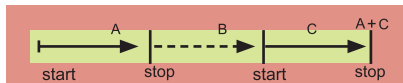
C **Continuous Timing:** Digits offer a continuous display. When maximum display is reached, digits rollover to zero and automatically begin timing again. Permits timing for hours, days, or weeks.

D **Cumulative Split:** Freezes display for partial event times while internal clock continues to run and measure total elapsed time since starting timer.
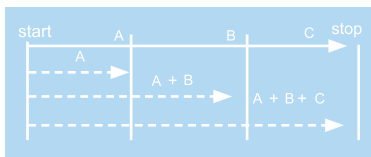
E **Interval Split:** Yields a readout of each individual time increment of a connected series of events. Each press of key displays time interval since previous press.
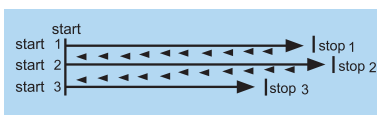
F **Memories:** Capture and store up to six or eight separate times and display them while timing or after event is over. Never look away from a lab test-even to take notes.
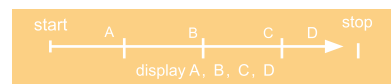
G **Countdown I (repeat):** An alarm sounds at zero, program automatically repeats, counts down, and alarms again. It continues this sequence until stopped.
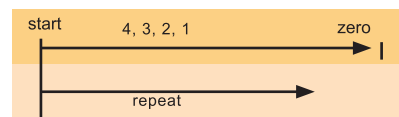
H **Countdown II:** Allows setting unit to countdown. An alarm sounds at zero.
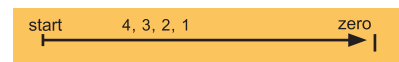
I **Sample Counter:** Box on display shows sample number for each split taken.

Stopwatch Selection Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Accuracy	Timing Capacity	Resolution	Timing Functions (see above)	Features
1025	48	Yes	0.00%	10 Hours	1/100 Second	A, B, C, D, E, F, G, H, I	60 memories
1031	48	Yes	0.00%	20 Hours	1/100 Second	A, B, C, D, E, F	Triple-display, decimal timing, and 500 memories
1047	48	Yes	0.01%	24 Hours	1/100 Second	A, B, C, D	Big digits
1048	48	Yes	0.00%	10 Hours	1/100 Second	A, B, C, D, E, F, G, H, I	8 memories
1052	48	Yes	0.00%	10 Hours	1/100 Second	A, B, C, D, E, F, G, H, I	300 memories
1030	49	Yes	0.00%	10 Hours	1/100 Second	A, B, C, D, E	High accuracy
1034	49	Yes	0.00%	10 Hours	1/100 Second	A, B, C, D, E, F	Dual display
1037	49	Yes	0.00%	24 Hours	1/100 Second	A, B, C, D	Extra-tough construction
1042	49	Yes	0.01%	24 Hours	1/100 Second	A, B, C, D, E	Water-and-shock resistant
1044	49	Yes	0.01%	24 Hours	1/100 Second	A, B, C, D, E	Extra-tough construction
1045	49	Yes	0.01%	24 Hours	1/100 Second	A, B, C, D	Water-and-shock resistant
1051	49	Yes	0.00%	24 Hours	1/100 Second	A, B, C, D	Jumbo digits
1035	50	Yes	0.01%	99 Hours	1/100 Second	A, B, C, D	Pre-programmed countdown
1043	50	Yes	0.01%	24 Hours	1/100 Second	A, B, C, D	Disposable
1221	50	Yes	0.00%	10 Hours	1/1,000 Second	A, B, D, E	Bench top
1021	50	Yes	0.00%	100 Hours	1/1,000 Second	A, B, C, D, E, H	Time 12 events at once

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

TraceableGO™ Datalogging Hygrometer

Bluetooth Temperature and Humidity Datalogger fills in the unknowns between destinations

- Know what happened to shipments in transit or while being stored on a shelf
- Press START to begin monitoring, place device inside storage or even an entire pallet of material
- Double-press START/STOP to enable Bluetooth and export data using TraceableGO™ mobile app
- Stores up to 90 alarm events—total logging duration is 227 days (7.5 months) user adjustable interval
- TraceableGO™ mobile app immediately identifies if contents experienced conditions outside user-defined parameters
- Optional: Ability to store TRIP data with a TraceableLIVE® Account
- Supplied: Unit (3.5 x 2 x 0.79 inches), Traceable® Certificate

FREE TraceableGO™ Mobile App

Cat. No.	Range	Accuracy	Resolution
6537	Humidity: 0 to 95% RH, (non-condensing)	±3% RH between 5 to 75%, otherwise ±5% RH	0.1%
	Temperature: –20 to 70°C (–4 to 158°F)	±0.4C between –10 and 70°C, otherwise ±0.5°C	0.1

Traceable® Memory-Card Humidity/Temperature/Dew Point

It records readings from once a minute up to once every 720 minutes on a SD memory card

- Datalogging capabilities that can capture 5.9 million readings with 256 mb removable SD memory card
- Visual and audible alarms indicate when temperature, humidity or dew point rises above and falls below user-defined set points
- USB memory card reader plugs directly into Windows and Mac—no software to install to retrieve date/time of day and readings of sensors
- Supplied: 256 mb SD memory card, USB memory card reader, magnetic strips, Velcro®, wall mount, bench stand, batteries, adaptor, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Dew Point
6404	Humidity: 0.0 to 90.0% RH	0.1%	±5% RH at 25°C between 20 to 85%; ±7% RH elsewhere	–20.0 to 50.0°C with 0.1° resolution
	Temperature: 0 to 50.0°C	0.1°	±1°C	

Traceable® Digital Humidity/Temperature Meter

Simultaneously displays humidity & temperature with dual-recall memories

- Ideal for routine measurements, monitoring, quality-control needs, and critical experimental requirements
- Minimum and maximum memories can be displayed or cleared at any time with the touch of a key
- Fulfils CLIA requirements, °F/°C switchable
- Supplied: wall mount, bench, stand, batteries, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Features
4096	Humidity: 25 to 95% RH	1%	±2% RH mid-range to ±4% RH elsewhere	MIN/MAX memory
	Temperature: 32 to 122°F (0 to 50°C)	1°	±1°C between 0 to 40°C, otherwise ±2°C	

TRACEABLE® PRODUCTS

Traceable® Digital Humidity/Temperature/Dew Point Meter

Convenient triple memory recalls MIN/MAX for RH, dew point, and temperature

- Audible and visual LED alarm may be set to trigger at three different humidity readings (55%, 60% or 65%)
- Solid state sensors deliver response times of less than 30 seconds, °F/°C switchable
- Supplied: wall mount, batteries, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Dew Point
4800	Humidity: 20.0 to 95.0%	0.1%	±3% mid-range, ±5% elsewhere	14 to 140°F (–10 to 60°C)
	Ambient Temperature: 14.0 to 140.0°F (–10.0 to 60.0°C)	0.1°	±1°C	

Traceable® Humidity/Temperature Pen

Quickly view temperature and relative humidity with dual-recall memories

- Meets Federal Government CLIA requirement 493.1252
- Easy to carry due to handy pocket clip
- Response time is less than 6 seconds, °F/°C switchable
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4093	Humidity: 20 to 95% RH	1%	±3.5% RH from 30 to 90%; otherwise ±5.5% RH
	Temperature: 32.0 to 122°F (0.0 to 50°C)	0.1°	±1°C/±2°F

Traceable® General-Purpose Hygrometer/Thermometer

Perfect quality-control unit displays accurate answers for every air measurement

- Easy-to-operate unit features a DATA HOLD switch allowing readings to be captured and noted
- Unit is self-contained with built-in humidity and temperature sensors, °F/°C switchable
- Response times vary from 30 seconds to 3½ minutes
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4087	Humidity: 10.0 to 95.0% RH	0.01%	±1.5%
	Temperature: 32.0 to 122.0°F (0 to 50°C)	0.01°	±0.4°C at tested points
Accessories			
40012	Data Acquisition System (for additional information see page 80)		

Traceable® Humidity/Temperature Meter

Hand-held, compact unit is easy to operate

- Memory captures 99 data points which can be recalled on demand
- Response time is 30 seconds to 5 minutes depending on environment, °F/°C switchable
- Large 1.2 cm digits can be read from 3 meters away
- Precision thin-film capacitance sensor updates the display 3 times per second
- Supplied: battery, tripod-mount, hard carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4187	Humidity: 10.0 to 95.0% RH	0.1%	±2.5% RH mid-range to ±5% RH elsewhere
	Temperature: –4.0 to 140.0°F (–20.0 to 60.0°C)	0.1°	±0.1°C

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® Radio-Signal Remote Humidity/Thermometer

Monitors humidity and temperature up to 30 meters away

- Unit feature high/low alarms, °F/°C switchable
- Data is transmitted every 30 seconds
- Trend indicators show if humidity is rising or falling
- Additional Traceable Humidity/Thermometer Remote Sensor Module (Cat No. 4381); may be set to channel 1, 2, or 3; total of three modules may be used with main unit 4380
- Supplied: battery, carrying case, flip-open stand, wall brackets, one remote sensor module Traceable® Certificate

4380

4381

Cat. No.	Range	Resolution	Accuracy
4380	Humidity: 25 to 90% RH	1%	±2% RH mid-range to ±4% RH elsewhere
	Temperature: –4 to 140°F (–20 to 60°C)	0.1°	±1°C
Accessories			
4381	Additional Traceable® Humidity/Thermometer Remote Sensor Module		

Traceable® Pocket Hygrometer/Dew Point/Thermometer

Humidity, dew point, temperature display—sensor not affected by condensation

- Unit may be used in 100% humidity, °F/°C switchable
- Full range response time of 30 seconds to 1 minute
- Supplied: Traceable® Certificate, battery, hard carrying case

Cat. No.	Range	Resolution	Accuracy
4392	Humidity: 0 to 100.0% RH	0.1%	±3% RH mid-range to ±4% RH elsewhere
	Temperature: –20.0 to 50.0°C (–4.0 to 122°F)	0.1°	±1°C
	Dew point: –20.0 to 50.0°C (–4.0 to 122°F)	0.1°	±1°C

Traceable® Humidity/Temperature/Dew Point Meter

Resolution of 0.01% relative humidity—ideal for QC labs, ISO 9001 environments and Research & Development

- Ideal for hoods, clean rooms, food storage, process control, incubators, desiccators, drug manufacturing, environmental chambers, corrosion analysis, inside/outside air monitoring
- Fulfils federal CLIA requirements
- MIN/MAX Memory, °F/°C switchable, High/Low alarms can be programmed for dew point, temperature and humidity
- Computer output permits data to be captured, transferred, stored and printed with DAS software
- Supplied: computer output, battery, Traceable® Certificate

4080

4085

Cat. No.	Range	Response time	Resolution	Accuracy	Probe
4085	Humidity: 5.00 to 95.00% RH	10 seconds	0.01% RH	±1.5% RH	Stainless-steel: 17.8 cm length x 1 cm dia.; cable: 1.8 meters
	Temperature: –40.00 to 220.0°F (–40.00 to 104.0°C)	—	0.01°	±0.4°C (0 to 40°C) elsewhere 1°C	
	Dew Point: –40.00 to 140.0°F (–40.00 to 60.00°C)	—	0.01°	—	
4080	Humidity: 10.00 to 95.00% RH	30 seconds	0.01% RH	±1.5% RH	Epoxy: 17.8 cm length x 1 cm dia.; cable: 1.8 meters
	Temperature: –40.00 to 220.0°F (–40.00 to 104.0°C)	—	0.01°	±0.4°C (0 to 40°C) elsewhere 1°C	
	Dew Point: –40.00 to 140.0°F (–40.00 to 60.00°C)	—	0.01°	—	
Accessories					
4099	Data Acquisition System Software				
4236	Universal AC Adaptor				

TRACEABLE®
PRODUCTS

Traceable® Excursion-Trac™ or Memory-Loc™ Datalogging Hygrometers

Perfect for hoods, storerooms, cleanrooms and other environments

- Unit has both ambient and external sensors that both measure humidity and temperature readings
- Stores up to 30 unique alarm events
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Hassle-free retrieval of data—unit can remain in use while downloading/analysing data

6452

Cat. No.	Parameter	Range	Accuracy	Resolution	Data Overwrite	Memory
Excursion-Trac™						
6452	Ambient Humidity External Humidity Ambient Temperature External Temperature	0.0 to 95.0% RH (non-condensing) 32.0 to 145.0°F (0.0 to 65.0°C) –4.0 to 158.0°F (–20.0 to 70.0°C)	3% RH (5 to 75%), ±5% RH otherwise ±0.4°C	0.1% RH 0.1°	Yes	525,504 data points
Memory-Loc™						
6454	Ambient Humidity External Humidity Ambient Temperature External Temperature	0.0 to 95.0% RH (non-condensing) 32.0 to 145.0°F (0.0 to 65.0°C) –4.0 to 158.0°F (–20.0 to 70.0°C)	3% RH (5 to 75%), ±5% RH otherwise ±0.4°C	0.1% RH 0.1°	No	688,086 data points

Traceable® Humidity/Thermometer

Unit simultaneously displays humidity or dew point and temperature

- Unit displays MIN/MAX humidity readings and includes a HOLD key to freeze display for later reading
- Records wide humidity variations on a second-to-second basis
- Captures 1000 readings manually at the push of a key or automatically when set between 1 to 3,600 secs
- Computer output allows unit to be connected to a computer for data downloading
- Supplied: battery, probe, 1 m cable, computer output, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4189	Humidity: 10.0 to 95.0% RH	0.01%	±3% RH	Size: 20.3 x 1.6 cm diameter
	Temperature: 32.0 to 122.0°F (0.0 to 50.0°C)	0.01°	±1°C	
Accessories				
4136	Data Acquisition System (for additional information see page 80)			

Traceable® Memory Hygrometer/Thermometer

Extremely accurate and portable

- Microprocessor-based design provides unparalleled accuracy
- Simultaneously displays both temperature and relative humidity on dual 2.8 cm LCD
- 0.9 m cable allows user to retrieve readings from hard-to-reach areas
- Supplied: probe, cable, battery, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4185	Humidity: 10 to 95% RH	0.1% RH	±2.0%RH mid-range, ±4.0%RH otherwise
	Temperature: –18 to 93°C	0.1°	±1°C between 0 to 40°C, otherwise ±2°C
4385	Humidity: 10 to 95% RH	0.1% RH	±2.0%RH mid-range, ±4.0%RH otherwise
	Temperature: –18 to 93°C	0.1°	±1°C between 0 to 40°C, otherwise ±2°C
	Dew Point: 0 to 50°C	0.1°	±2°C
Accessories			
4394	33% Calibration Standard with calibration instructions		
4395	75% Calibration Standard with calibration instructions		
8045	Data Acquisition System Software		

Traceable® Printing Hygrometer/Thermometer

Print readings at any programmed time interval from 6 secs to 59 mins, 59 secs

- Provides a permanent record by printing current humidity/temperature/time/date and maximum and minimum readings; also includes time and date that the readings occurred.
- Fast-response, solid-state sensors detect changes in less than 10 seconds
- Meets CLIA specification 493.1252
- Supplied: T1, T2 Type-K probe, cable, probe holder/stand, carrying case, paper rolls, battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Probe
4181	Humidity: 30 to 95%	0.1% RH	±3% RH mid-range to ±5% RH elsewhere	Probe: 1.9 cm dia. x 15.8 cm; 1.2 m cable
	T1 Temperature: –20.0 to 60.0°C	0.1°	±1°C	
	T2 Temperature: –200 to 1,333°C	0.1°C (from –328 to 999.9°F) elsewhere 1°	±(0.2% of reading plus 1.8°C)	Type-K: 0.15 cm dia.; 1.2 m cable

Accessories	
8182	Replacement Printing Paper (pack of 2 rolls)
8183	Adaptor (for AC operation)

Traceable® Jumbo Humidity/Temperature Meter

Jumbo 2.9 cm digits display humidity, temperature—read from 10 meters away

- Simultaneously displays ambient relative humidity and internal probe and external probe temperatures °F/°C with dual-recall memories
- Both sensor and 3 meter cable perform accurately when under water
- Fulfils CLIA specification 493.1207
- Response time is less than 30 seconds
- Supplied: flip-open stand, wall mount, battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4184	Ambient humidity: 25 to 95% RH	1%	±2% RH mid-range to ±4% RH elsewhere
	Ambient temperature: 32 to 122°F (0 to 50°C)	1°	±1°C
	Probe temperature: –58 to 158°F (–50 to 70°C)	1°	±1°C

Traceable® Remote Alarm RH/Temperature Monitor

Triple display simultaneously shows MIN/MAX, and current RH/temperature readings

- Remote humidity/temperature sensor on a 2 meter cable
- Min/Max memories
- High/low alarm feature may be set by user in 1% RH or 1° increments
- Perfect for use in hoods, classrooms, stockrooms, environmental chambers and chemical storage areas
- Supplied: battery, external humidity/temperature sensor, flip-open stand, wall mount, Traceable® Certificate

4154

Cat. No.	Range	Resolution	Accuracy	Features
4154	Humidity: 5.0 to 95.0% RH	0.1%	±3% RH from 25 to 75%, ±5% otherwise	MIN/MAX memory, 2 meter cable
	Temperature: 32.0 to 140.0°F (0.0 to 60.0°C)	0.1°	±0.5°C	
4155	Humidity: 5.0 to 95.0%	0.1%	±3% RH from 25-75%,±5% otherwise	Ambient Sensor
	Temperature: 0.0 to 60.0°C (32.0 to 140.0°F)	0.1°	±0.5°C	

TRACEABLE®
PRODUCTS

Traceable® Dew Point/Wet-Bulb/Humidity/Thermometer Alarm
Settable high/low alarms for all four readings

- Unit shows current minimum and maximum readings for dew point, wet-bulb, humidity and temperature
- Alarm sounds for 1 minute and display flashes until readings return to non-alarm conditions
- Supplied: stand, batteries, wall-mount, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4410	Humidity: 1.0 to 99.0% RH	0.1%	±4% RH from 35 to 75%, ±5% otherwise
	Temperature: –40.0 to 158°F (–40.0 to 70.0°C)	0.1° below 100°	±1°C

Traceable® Humidity-on-a-Card™
Color changes from blue to lavender in increments of 10% RH

- Individually sealed cards indicate both current humidity and the maximum humidity attained
- Maximum relative humidity attained is indicated by the highest numbered hole containing dissolved crystals
- Monitor humidity levels in shipments, optics and packaging
- Supplied: Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Size	Quantity
4192	Humidity: 0 to 100% RH	10% RH	±5% RH at 75°F (24°C)	10 x 10 cm	6/pk
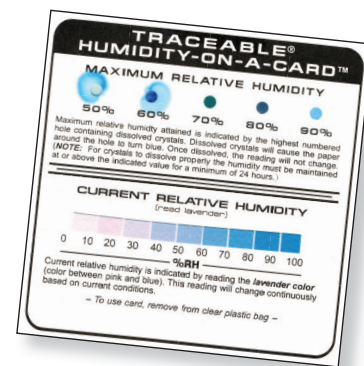
Humidity Selection Chart

Cat. No.	Page No.	Traceable® Certificate Supplied	Relative Humidity Range	Relative Humidity Resolution	Relative Humidity Accuracy	Temperature Range	Resolution	Accuracy	Battery	Features
6537	52	Yes	0 to 95% RH	0.10%	3% RH	–20 to 70°C	0.1°	±0.4°C	1105	Bluetooth data download
4096	52	Yes	25 to 95% RH	1% RH	±2% RH	0 to 50°C	1°	±1°C	1105	Dual min/max memories
6404	52	Yes	0.0 to 90.0% RH	0.1% RH	±5% RH	0 to 50.0°C	0.1°	±1°C	1111	Datalogger with Memory card
4800	53	Yes	20.0 to 95.0% RH	0.1% RH	±3% RH	–10 to 60°C	0.1°	±1°C	1111	RH Alarm and reads Dew point
4087	53	Yes	10.0 to 95.0% RH	0.01% RH	±1.5% RH	0.0 to 50.0°C	0.01°	±0.4°C	1112	Simple point/read technology
4093	53	Yes	20 to 95% RH	1% RH	±3.5% RH	0.0 to 50.0°C	0.1°	±1°C	1005	Pen shape
4187	53	Yes	10.0 to 95.0% RH	0.1% RH	±2.5% RH	–20.0 to 60.0°C	0.1°	±1°C	1112	Recorder output
4080	54	Yes	10.00 to 95.00% RH	0.01% RH	±1.5% RH	–40.0 to 104.4°C	0.01°	±0.4°C	1112	Also reads dew point
4085	54	Yes	5.00 to 95.00% RH	0.01% RH	±1.5% RH	–40.0 to 104.4°C	0.01°	±0.4°C	1112	Response time of 10 seconds
4380	54	Yes	25 to 90% RH	1% RH	±2% RH	–20 to 60°C	0.1°	±1°C	1111/1105	Radio-signal from remote
4392	54	Yes	0 to 100.0% RH	0.1% RH	±3% RH	–20.0 to 50.0°C	0.1°	±1°C	1105	Dew point, min/max
6452	55	Yes	0.0 to 95.0% RH	0.10%	3% RH	0.0 to 65.0°C	0.1°	±0.4°C	1105	Download data to USB drive
6453	55	Yes	0.0 to 95.0% RH	0.10%	3% RH	0.0 to 65.0°C	0.1°	±0.4°C	1105	Memory cannot be cleared
4185	55	Yes	10 to 95.0% RH	0.1% RH	±2% RH	–18 to 93°C	0.1°	±1°C	1112	Computer-output
4189	55	Yes	10.0 to 95.0% RH	0.01% RH	±3% RH	0.0 to 50.0°C	0.01°	±1°C	1112	Computer-output
4385	55	Yes	10.0 to 95.0% RH	0.1% RH	±2% RH	–18 to 93°C	0.1°	±1°C	1112	Computer-output
4155	56	Yes	5.0 to 95.0% RH	0.1% RH	±3% RH	0.0 to 60.0°C	0.1°	±0.5°C	1105	Ambient humidity
4181	56	Yes	10 to 95% RH	0.1% RH	±3% RH	–20 to 60°C	0.1°	±1°C	1105	Hard-copy results
4154	56	Yes	5.0 to 95.0% RH	0.1% RH	±3% RH	0.0 to 60.0°C	0.1°	±0.5°C	1105	Remote humidity sensor
4184	57	Yes	25 to 95% RH	1% RH	±2% RH	–50 to 70°C	1°	±1°C	1105	Jumbo digits
4192	57	Yes	0 to 100% RH	10% RH	±5% RH	n/a	n/a	n/a	n/a	Humidity card (pack of six)
4410	57	Yes	1 to 99% RH	0.1% RH	±4% RH	–40 to 70°C	0.1°	±1°C	1105	Dew point and wet-bulb monitor

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

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Traceable® Excursion-Trac™ or Memory-Loc™ Datalogging Barometers

Perfect for warehouse, labs and other environments where ambient parameters need to be monitored

- Stores up to 30 unique alarm events
- Altitude Compensation from –100 to 2500 meters
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive—no additional software needed
- Hassle-free retrieval of data—unit can remain in use while downloading/analysing data

6453

Cat. No.	Parameter	Range	Accuracy	Resolution	Data Overwrite	Memory
Excursion-Trac™						
6453	Barometric Pressure Relative Humidity Ambient Temperature	500 to 1030 mbar 0.0 to 95.0% RH (non-condensing) 32.0 to 158.0°F (0.0 to 55.0°C)	±4 mbar 3% RH (5 to 75% RH), ±5%RH otherwise ±0.4°C	1 mbar 0.1% RH 0.1°	Yes	525,600 data points
Memory-Loc™						
6455	Barometric Pressure Relative Humidity Ambient Temperature	500 to 1030 mbar 0.0 to 95.0% RH (non-condensing) 32.0 to 158.0°F (0.0 to 55.0°C)	±4 mbar 3% RH (5 to 75% RH), ±5%RH otherwise ±0.4°C	1 mbar 0.1% RH 0.1°	No	819,150 data points

Traceable® Digital Barometer

Perfect unit for plants, labs, and all other environments where there is a need to monitor environmental air parameters

- A four-line LCD simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend and time
- Min/Max readings for barometric pressure, temperature and relative humidity are stored every hour for last 24 hours and are available for recall at the touch of a button
- Barometric pressure trend shows in bar-chart format current and past 1/3/6/12 and 24-hour readings
- Altitude compensation: –100 to 2,500 meters
- Computer output allows unit to be connected to a computer using the accessory Computer Data Acquisition System to permanently capture readings
- Supplied: Traceable® Certificate, wall mount, flip open stand and batteries

Cat. No.	Function	Range	Resolution	Accuracy
6530	**Barometric pressure**	500 to 1030 millibars (14.77 to 30.41 inHg)	1 mbar (0.01 inHg)	±4 mbar (±0.12 inHg)
	Ambient Temperature	32 to 131ºF (0 to 55ºC)	0.1°	±0.4°C (±0.8°F)
	Humidity	5 to 95% RH	1%	±3% RH between 5 to 75%, otherwise ±5% RH
Accessories				
6531	Data Acquisition System Software			

TRACEABLE®
PRODUCTS

Traceable® Hand-Held Barometer

Hand-held multi-tasking barometer is ideal lab partner for any workplace

- Hand-held unit measures altitude, temperature and barometric pressure
- Barometric trend graph delivers present and previous 2/4/6/8/10 and 12-hour readings in bar-chart format
- Barometer pressure readings are updated every 15 minutes
- Includes stopwatch, time-of-day clock and compass
- Supplied: batteries, lanyard, Traceable® Certificate

Cat. No.	Function	Range	Resolution	Accuracy
4198	**Barometric pressure**	8.85 to 32.45 inHg; 300 to 1100 mbar	0.01 inHg; 1 mbar	±0.2363 inHg; ±8 mbar
	Temperature	14 to 140°F (–10 to 60°C)	0.1°	±1.5°C
	Altitude	–2296 to 29520 ft –700 to 9000 meters	0.1 from –500 to 999.9, 1 elsewhere	—
	Stopwatch	1 sec to 23 hrs, 59 min, 59 sec	0.1°	—

Traceable® Hygrometer/Thermometer/Barometer/Dew Point Pen

Lightweight and compact unit measures humidity, temperature, barometric pressure and dew point

- User selectable dual display shows humidity/temperature, humidity/dew point, barometric pressure/ temperature or barometric pressure/humidity
- Portable—easy operation
- MIN/MAX readings recalled at the press of a key
- Supplied: metal clip, battery, Traceable® Certificate

| Cat. No.	Function	Range	Resolution	Accuracy
4247	**Barometric Pressure**	10.0 to 1100 mbar (hPa); 7.5 to 825.0 mmHg; 0.29 to 32.48 inHg	0.1 and 1 mbar (hPa); 0.1 mmHg; 0.01 inHg	±4 hPa between 550 to 1100 hPa
	Humidity	10.0 to 95.0% RH	0.1%	±3% RH midrange to ±4% RH elsewhere
	Thermometer	0.0 to 50.0°C	0.1°C	±1°C
	Dew Point	–25.3 to 48.9°C	0.1°	±1°C

Traceable® Precision Dial Barometer

Highly reliable, place-anywhere barometer delivers meticulous results

- Barometer has response time of 1 to 4 hours and triple scales that provide precise, sensitive measurements of atmospheric pressure
- Adjustable pointer may be set to indicate changes
- Altitude adjustment screw is supplied for use at locations as high as 1,000 meters
- Supplied: altitude adjustment screw, stand, wall mount, Traceable® Certificate

Cat. No.	Function	Range	Resolution	Accuracy
4199	**Barometric pressure**	28.1 to 31.7 inHg 945 to 1073 mbar 715 to 805 mmHg	0.05 inHg 0.5 mbar 0.5 mmHg	±0.5% of reading
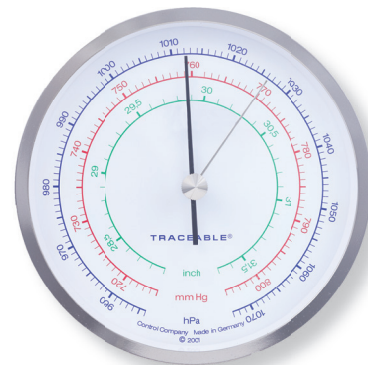
Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Traceable® Vane Anemometer Pens

Designed for intuitive, easy operation by everyone

- Unit recalls MIN/MAX readings and also has a HOLD key allowing user to freeze current reading on display
- Three units provide airflow/temperature, airflow/temperature/humidity/dew point, and airflow/temperature/dew point/barometric pressure
- Constructed to keep dust and dirt out of unit, assuring a long life even in harsh conditions
- Supplied: batteries, Traceable® Certificate

Cat. No.		3650	3651	3652
Air Flow	Range	0.4 to 30.0 m/s 1.4 to 108.0 km/hr 80 to 5910 ft/min 0.9 to 67.0 mile/hr 0.8 to 58.3 knots	0.4 to 30.0 m/s 1.4 to 108.0 km/hr 80 to 5910 ft/min 0.9 to 67.0 mile/hr 0.8 to 58.3 knots	0.4 to 30.0 m/s 1.4 to 108.0 km/hr 80 to 5910 ft/min 0.9 to 67.0 mile/hr 0.8 to 58.3 knots
	Resolution	0.1 m/s; 0.1 km/hr;1ft/min 0.1 mile/hr; 0.1 knots	0.1 m/s; 0.1 km/hr;1ft/min 0.1 mile/hr; 0.1 knots	0.1 m/s; 0.1 km/hr;1ft/min 0.1 mile/hr; 0.1 knots
	Accuracy	±3% full scale under 20 m/s ±4% full scale over 20 m/s	±3% full scale under 20 m/s ±4% full scale over 20 m/s	±3% full scale under 20 m/s ±4% full scale over 20 m/s
Temperature	Range	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 (0.0 to 50.0°C)
	Resolution	0.1°	0.1°	0.1°
	Accuracy	±0.8°C	±0.8°C	±0.8°C
Humidity	Range	—	10.0 to 95.0% RH	10.0 to 95.0% RH
	Resolution	—	0.1%	0.1%
	Accuracy	—	±3 of reading +1	±3 of reading +1
Dew Point	Range	—	−13.5 to 120.1°F (−25.3 to 48.9°C)	−13.5 to 120.1°F (−25.3 to 48.9°C)
	Resolution	—	0.1°	0.1°
Barometric Pressure	Range	—	—	10.0 to 1100 hPa; 7.5 to 825.0 mmHg; 0.29 to 32.48 inHg
	Resolution	—	—	0.1 and 1hPa; 0.1 mmHg; 0.01 inHg
	Accuracy	—	—	±4 hPa

Traceable® Micro-Anemometer/Thermometer

Ultra compact micro-design is small in size and big in features

- Water-resistant unit measures air velocity in five user selectable values; meters per minute, feet per second, miles per hour, kilometers per hour and knots
- Readings updated 2 times per second and immediate results provided
- Maximum airflow measured and temperature in F and C also displayed on screen
- Supplied: Traceable® Certificate, lanyard, nylon carrying case, battery

Cat. No.	Function	Range	Resolution	Accuracy
3655	Air Flow	0.0 to 30.0 m/s, 0.0 to 98.0 ft/sec, 0.0 to 67.0 mile/hr, 0.0 to 108.0 km/hr, 0.0 to 58.0 knots	0.1 m/s, 0.1 km/hr, 0.1 ft/sec, 0.1 mile/hr, 0.1 knots	±5% full scale
	Temperature	−20.0 to 80.0°C (−4.0 to 176.0°F)	0.1°	±1°C

Traceable® Hot Wire Anemometer/Thermometer

Great precision—even at low air velocities

- Handy telescopic probe—expandable from 24 cm to one meter—is ideal for hard-to-reach areas
- No-moving-parts anemometer eliminates friction errors—perfect for any environmental test
- Output capability allows unit to be connected to a computer or data logger to monitor/store results
- Supplied: batteries, dual thermistor probes, 1 m cable, computer output, Traceable® Certificate

Cat. No.	Air Velocity	Resolution	Accuracy
4330	0.2 to 20.0 m/s; 0.7 to 72.0 km/hr; 40 to 3940 ft/min; 0.5 to 44.7 mile/hr; 0.4 to 38.8 knots	0.1 m/sec.; 0.1 km/hr; 1 ft/min; 0.1 mile/hr; 0.1 knots	±(1% full scale+ 1 digit)
Accessories			
4136	Data Acquisition System (for additional information, please see page 80)		

TRACEABLE®
PRODUCTS

Traceable® Anemometer/Thermometer

Double-duty anemometer simultaneously displays air velocity and temperature

- Easy-to-operate anemometer is ideal for use in hoods or outdoors
- MEMORY key allows for recalling highest/lowest readings achieved and HOLD freezes display to record test results
- Unit has computer output capabilities
- Supplied: battery, carrying case, computer output, Traceable® Certificate

Cat. No.	Air Velocity	Resolution	Accuracy
4331	0.40 to 30.0 m/sec; 1.4 to 108.0 km/hr; 80 to 5900 ft/min; 0.9 to 67.0 mile/hr; 0.8 to 58.0 knots	0.1 m/sec; 0.1 km/hr; 1 ft/min; 0.1 mile/hr; 0.1 knots	±3% of full scale
Accessories			
4237	Data Acquisition System (for additional information, please see page 80)		

Traceable® Digital Anemometer/Thermometer

Extraordinarily low-friction design provides a vane that rotates freely in low/high velocities

- Engineered for years of reliable service even in severe or harsh environments
- Reading is updated instantaneously
- Supplied: battery, carrying case, 1.2 m cable, flip-open stand, Traceable® Certificate

Cat. No.	Air Velocity	Resolution	Accuracy
4091	0.40 to 30.0 m/sec; 1.4 to 108.0 km/hr; 80 to 5900 ft/min; 0.8 to 53.3 knots	0.1 m/sec; 0.1 km/hr; 10 ft/min; 0.1 knots	±(2% + 1 digit) of speed reading

Enviro-Meter™

Four-in-one lab champion

- Lightweight, hand-held workhorse: anemometer, humidity meter, light meter, and 2 thermometers, °F/°C switchable
- HOLD key freezes display, MIN/MAX feature displays highest and lowest reading over any time period
- Supplied: battery, Type-K beaded probe/1.2 m cable, wrist strap

Cat. No.	Function	Range	Resolution	Accuracy
4332	Air Velocity	0.40 to 30.0 meters per second 1.4 to 108.0 kilometers per hour 80 to 5910 feet per minute 0.9 to 67.0 miles per hour 0.8 to 58.3 knots (nautical miles per hour)	0.1 m/sec. 0.1 km/hr 1 ft/min 0.1m/h 0.1 knots	±3 or 4% of full scale
	Temperature	Ambient sensor: 32.0 to 122.0°F (0.0 to 50.0°C)	0.1° (°C and °F)	±1.2°C
		Type-K: –148.0 to 2,372°F (–100.0 to 1,300°C)	0.1° (°C and °F)	±(1% of reading + 1°C)
	Humidity	10.0 to 95.0% RH	0.1% RH	±4% RH under 70% ±(4% of reading +1.2% RH) over 70%
	Light	0 to 20,000 lux (0 to 2000 foot candles)	1 lux (1 fc)	±5% of reading and ±8 digits

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

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3460

3469

Accessories (3460 through 3463 only)

Cat. No.	Description
8045	Data Acquisition System (additional information, see page 80)

Accessories (3466 & 3469 only)

Cat. No.	Description
7337	Replacement Paper rolls

Traceable® Manometer/Pressure/Vacuum Gauge

Quick-response manometer with memory key allows for recalling highest and lowest readings

- Portable unit measures and displays differential pressure/vacuum in 11 different units: psi, mbar, bar, cm/H_2O, inch/H_2O, feet/H_2O, mm/Hg, inch/Hg, kg/cm^2, oz/$inch^2$, kPa
- Printer option provides hard copy of samples number, current reading, date, and time for today's stringent quality-control documentation—user may set unit to repetitively print from 1 second to 2 hours
- Hose fittings on the unit permit hose/tubing with inside diameter 0.15 cm
- Count-up timer displays up to 99 hours, 59 minutes, 59 seconds
- Supplied: computer output, Traceable® Certificate, hose/tubing, batteries, carrying case, paper rolls

Cat. No. Non-printing	3460	3461	3462	3463
Cat. No. Printing	3466			3469
Max. Allowed PSI	20	30	60	150
PSI Range	−5.000 to 5.000	−15.00 to 15.00	−30.00 to 30.00	−100.0 to 100.0
PSI Resolution	0.003	0.01	0.02	0.1
mbar Range	−345.0 to 345.0	−1034 to 1034	−2068 to 2068	−6895 to 6895
mbar Resolution	0.2	1	2	4
bar Range	−0.3450 to 0.3450	−1.034 to 1.034	−2.068 to 2.068	−6.895 to 6.895
bar Resolution	0.001	0.001	0.002	0.004
cm/H_2O Range	−351.0 to 351.0	−1055 to 1055	−2109 to 2109	−7031 to 7031
cm/H_2O Resolution	0.2	1	2	4
inch/H_2O Range	−138.0 to 138.0	−415.0 to 415.0	−830.0 to 830.0	−2768 to 2768
inch/H_2O Resolution	0.1	0.3	0.5	2
feet/H_2O Range	−12.00 to 12.00	−35.00 to 35.00	−69.00 to 69.00	−231.0 to 231.0
feet/H_2O Resolution	0.01	0.02	0.04	0.2
mm/Hg Range	−259.0 to 259.0	−776.0 to 776.0	−1551 to 1551	−5171 to 5171
mm/Hg Resolution	0.2	0.5	1	3
inch/Hg Range	−10.00 to 10.00	−31.00 to 31.00	−61.00 to 61.00	−204.00 to 204.00
inch/Hg Resolution	0.01	0.03	0.1	1.0
kg/cm^2 Range	−0.350 to 0.350	−1.060 to 1.060	−2.110 to 2.110	−7.030 to 7.030
kg/cm^2 Resolution	0.001	0.001	0.002	0.004
oz/$inch^2$ Range	−80.00 to 80.00	−240.0 to 240.0	−480.0 to 480.0	−1600 to 1600
oz/$inch^2$ Resolution	0.05	0.2	0.3	1
kPa Range	−34.50 to 34.50	−103.0 to 103.0	−207.0 to 207.0	−690.0 to 690.0
kPa Resolution	0.02	0.1	0.2	0.4

Traceable® Pressure/Vacuum Gauge

Displays answer in eight different units—with computer output

- At the touch of a key the unit may be zeroed
- Memory function recalls highest and lowest readings
- Supplied: transducer sensor, battery, 1 m cable, computer output, Traceable® Certificate

Accessories

Cat. No.	Description
4136	Data Acquisition System (additional information, see page 80)

Cat. No.	3165	3166
psi range (resolution)	−14.7 to 725 (1)	−14.70 to 29.0 (0.02)
bar range (resolution)	−1.0 to 50 (0.05)	−1.000 to 2.000 (0.002)
Meter/H_2O (resolution)	−10 to 509.5 (0.5)	−10.00 to 20.40 (0.02)
Atmospheres range (resolution)	−1.0 to 49.35 (0.05)	−1.000 to 1.974 (0.002)
mm/Hg range (resolution)	−736 to 37500 (50)	−736 to 1500 (2)
inch/Hg range (resolution)	−29 to 1476 (1)	−29 to 59.05 (0.05)
inch H_2O range (resolution)	−394 to 20050 (20)	−394 to 802 (1)
Kg/cm^2 range (resolution)	−1 to 50.95 (0.05)	−1.000 to 2.040 (0.002)

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T R A C E A B L E®
P R O D U C T S

Traceable® Bench Conductivity Meter

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

- Fulfil 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					Accuracy
4163	Micromhos (microsiemens)	0.01 to 20.00	0.1 to 200.0	1 to 2000	10 to 20000	100 to 200000	±0.3% +1 digit
	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		
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						

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 displayed are 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
4063	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)
	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		
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						

Traceable® pH\ORP Meter

Simply dip into solution and read pH or ORP

- Triple display shows pH or ORP measurement, temperature and time\date—25 point memory storage
- Compact (water-resistant-IP67) instrument fits in the palm of your hand
- Ideal for wastewater, water quality and environmental applications
- Supplied: detachable probe, battery, probe cover, Traceable® Certificate, carrying case, Traceable® One-Shot™ pH Buffer Standards (CRM) 6-Pack Assortment

Cat. No.	Measurement	Range	Resolution	Accuracy
4277	pH	0.00 to 14.00 pH	0.01 pH	±0.02 pH
	ORP	−1800 to 1800 mV	0.1mV <1000mV (1mV ≥1000mV)	±20 mV
	Temperature	32 to 140ºF (0 to 60ºC) (selectable)	0.1º (1º when >100º)	±1ºC
Accessories				
4278	Probe Extension Cable			
4279	Replacement Probe			
4290	Traceable® One-Shot™ pH Buffer Standards (CRM) 6-Pack Assortment			

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

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 fulfils 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
4360	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
	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			
4362	Conductivity Probe— Unbreakable Epoxy, K=1; probe range: 0 to 200,000 microsiemens.		
8045	Data Acquisition System (for additional information see page 68)		
4363	9V Adaptor (for international information see page 79)		

Traceable® Dual-Display Conductivity Meter

Simultaneously shows conductivity readings and temperature

- Simultaneously displays temperature and conductivity, MIN/MAX and average readings
- User-settable or automatic (2% per °C) temperature compensation (coefficient from 0.0 to 5.0% per °C)
- Probe: 15 x 1.27 cm diameter, 1 m cable
- Supplied: epoxy probe, Traceable® Certificate, battery, computer output

Cat. No.	Measurement	Range	Resolution	Accuracy
4169	Conductivity	0.0 to 199.9 micromhos (microsiemens); 0.001 to 1.999 millimhos (millisiemens); 0.01 to 19.99 millimhos (millisiemens)	0.1 microsiemen; 0.001 millisiemens; 0.01 millisiemens	±(2% of full scale plus 1 digit)
	Temperature	32 to 140 °F (0.0 to 60.0 °C)	0.1°	±0.8°C
Accessories				
4136	Data Acquisition System (for additional information, see page 80)			
4138	Easy-Use Adaptor 115 VAC (for international adaptor see page 81)			

Traceable® Pure H$_2$O Tester

Easy-read large digit display

- Meets all lab certification requirements
- Tests water from stills, demineralizers, deionizers, reverse osmosis
- Instant response
- Supplied: epoxy probe, 1 m cable, carrying case, battery, Traceable® Certificate

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

TRACEABLE®
PRODUCTS

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 fulfil requirements for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Supplied: Traceable® Certificate, battery

4365

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%

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	53.3 cm metal arm, 20 cm diameter metal base, probe holder

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.
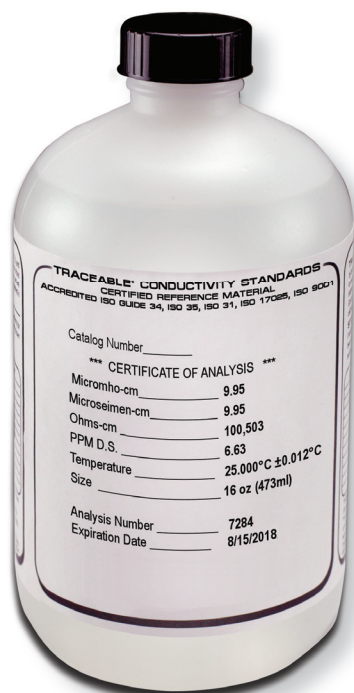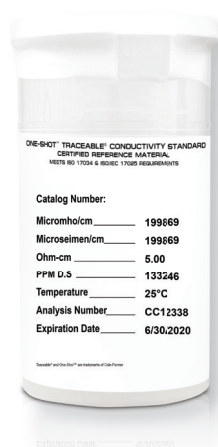
Traceable® Conductivity Standards (CRM)

Highest accuracy available assuring reliable results

- Certified Reference Material
- 100% compatible with all conductivity meters
- Each bottle or One-Shot™ is labelled indicating 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 bottle, an individual temperature compensation chart, traceability information, Traceable® Certificate

Cat. No. 16 oz. bottle • ISO 17034	Cat. No. Individually Tested 16 oz. bottle • ISO 17025	Microsiemens/Micromhos	Megohms	TDS/PPM
4274	4574	1	1	0.66
4270	4570	5	0.2	3.3
4065	4565	10	0.1	6.6
4066	4566	100	0.01	66
4067	4567	1000	0.001	666
4173	4573	1413	0.00071	933
4068	4568	10000	0.0001	6666
4069	4569	100000	0.00001	66666
4161	4561	150000	0.000006	100000
4162	4562	200000	0.000005	133333

Methods supported—This certified reference material meets test requirements for Federal, State, and local agencies, CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, and ISO. Traceable® Certified Reference Material complies with and is essential for use in these official methods: AOAC 973.40, EPA 120.1, Standard Method 2510 (APHA, AWWA, WEF), ISO 7888, DIN 38404, ASTM D1125, USGS I-1780, USP 645, and for A2LA/NVLAP accreditations/ISO 9000 certifications.

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

Cat. No. 100 ml One-Shot™ (6-pack) ISO 17034	Microsiemens/Micromhos	Megohms	TDS/PPM
—	1	1	0.66
4271	5	0.2	3.3
4175	10	0.1	6.6
4176	100	0.01	66
4177	1000	0.001	666
4174	1413	0.00071	933
4178	10000	0.0001	6666
4179	100000	0.00001	66666
4580	150000	0.000006	100000
4581	200000	0.000005	133333
4172	Assortment (one each of above One-Shot™, except 4271, 4580, 4581)		

TRACEABLE®
PRODUCTS

Traceable® pH Buffer Standards (CRM)

The most accurate pH Standards available anywhere

- 100% compatible with all makes of instruments and electrodes
- 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—aluminium 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 supplied with an individual temperature compensation chart, traceability information, Traceable® Certificate

Traceable® pH Buffer Standards Certified Reference Material (CRM) (CLEAR)			
Size	Accuracy	Cat. No.	pH Value
16 oz. bottle	25°C is ±0.010 pH	4280	4.005
		4281	7.000
		4282	10.012
100 ml One-Shot™ (6-pack)	25°C is ±0.010 pH	4287	4.005
		4288	7.000
		4289	10.012
One-Shot™ Assortment (6-pack)		4290	4.005 — 10.012

Traceable® pH Buffer Standards Certified Reference Material (CRM) (COLOR)				
Size	Accuracy	Color	Cat. No.	pH Value
16 oz. bottle	25°C is ±0.010 pH	Red	4880	4.005
		Yellow	4881	7.000
		Blue	4882	10.012
100 ml One-Shot™ (6-pack)	25°C is ±0.010 pH	Red	4887	4.005
		Yellow	4888	7.000
		Blue	4889	10.012
One-Shot™ Assortment (6-pack)		Red/Yellow/Blue	4890	4.005–10.012

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

Cat. No.	Size
4170	16 oz. bottle

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 17034 (1750.02) certified reference material producer and by an A2LA accredited ISO/IEC 17025 (1750.01) calibration laboratory. Additional guidelines include ISO Guide 31 (certificate content), and ISO Guide 35 (statistical analysis), and ISO 9001 accreditations (certified quality manufacturer).

Traceable® Dissolved Oxygen Meter

Easy-use meter simultaneously displays O$_2$ concentration and temperature

- Instrument recalls highest, lowest and average readings at the touch of a button
- Output for exporting data
- Computer output allows connection to a computer or data logger for monitoring and keeping results
- Supplied: probe, 1 m cable, two replacement probe heads, electrolyte solution, battery, computer output, carrying case, Traceable® Certificate

Cat No.	Description	Range	Resolution	Accuracy
4320	Dissolved oxygen measurement	0.00 to 20.00 mg/L	0.1 mg/L	±0.4 mg/L
	DO measurement % air saturation	0.00 to 100%	0.1%	±0.7% mg/L
	Temperature measurement	0.0 to 60°C	0.1°	±1.5°F/0.8°C
	Automatic temperature compensation	mg/l mode: 0.0 to 60.0°C, % air mode: 0.0 to 60.0°C		
	Salinity compensation	0 to 39%		
	Altitude compensation	0 to 3900 m		
Accessories				
4136	Data Acquisition System (for additional information, see page 80)			
4138	Easy-Use Accessory Adaptor 115 VAC (for international adaptor see page 81)			

Traceable® Dissolved Oxygen Pen

Measures dissolved oxygen to 100% air saturation

- Compact design
- Easy-to-use, MIN/MAX readings
- Supplied: 2 replacement probe tips/membranes, electrolyte solution, carrying case, battery, Traceable® Certificate

Cat. No.	Description	Range	Resolution	Accuracy
4319	Dissolved oxygen measurement	0.00 to 20.00 mg/l	0.1 mg/l	±0.4 mg/l
	Oxygen measurement % air saturation	0.0 to 100% air saturation	0.1%	± 0.7% mg/l
	Temperature measurement	32.0 to 122°F (0.0 to 50.0°C)	0.1°	±1.5°F / 0.8°C
	Automatic temperature compensation	0.0 to 50.0°C	—	—

Traceable® Moisture Meter

Displays moisture content of material, wood/wood product, soil and paper

- Recalls highest, lowest and average readings at the touch of a button
- Meter's memory contains nine types of materials with their calibrations
- Provides automatic and manual temperature compensation
- Establishes reference moisture readings
- Supplied: probe, ten spare pins, battery, computer output, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4310	9.0 to 30.0% moisture	0.1%	±(4% of reading plus 5 digits)
Accessories			
4136	Data Acquisition System (for additional information, see page 80)		
4138	Easy-Use Accessory Adaptor 115 VAC (for international adaptor see page 81)		

TRACEABLE®
PRODUCTS

Traceable® Light Meter Pen

Hand-held light meter designed for fast, simple readings

- Tough ABS plastic housing with O-ring seal and membrane keypad keeps out dust and dirt, assuring a long life in severe lab or harsh plant environments
- HOLD key freezes reading on display
- Supplied: batteries, light sensor cap, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
3247	0 to 1,860 Foot Candles	0.1 Foot Candles	±5% of reading plus 5
	0 to 20,000 Lux	1 Lux	

Traceable® Dual-Range Light Meter

Cable allows placing sensor anywhere

- Unit recalls highest, lowest, and average reading; and includes color-correction filter
- Analogue output for strip and chart recorders (0.1 millivolts per digit)
- Supplied: 5 cm diameter photocell, 1 m cable, battery, recorder output, Traceable® Certificate

Cat. No.	Measurement	Range	Resolution	Accuracy
3251	**Lux**	0 to 1,999 lux	1 lux	±5% reading + 10 lux
		2000 to 19,999 lux	10 lux	±5% reading + 100 lux
		20,000 to 50,000 lux	100 lux	±5% reading + 100 lux
	Foot Candles	0 to 199.9 Fc	0.1 Fc	±5% reading + 1 Fc
		200 to 1,999 Fc	1 Fc	±5% reading + 10 Fc
		2,000 to 5,000 Fc	10 Fc	±5% reading + 100 Fc
Accessories				
4138	Easy-Use Accessory Adaptor 115 VAC (for international adaptor see page 81)			

Traceable® Dual-Display Light Meter

Dual display shows lux or foot-candles, or percent differential from a reference point, and selected light source—daylight, tungsten, fluorescent or mercury

- Unit recalls highest, lowest and average readings; also includes a HOLD key to freeze the display
- Computer output allows connection to a computer or data logger for monitoring and keeping results
- Supplied: 5 cm dia. photo cell, 1 m cable length, battery, computer output, Traceable® Certificate

Cat. No.	Measurement	Range	Resolution	Accuracy
3252	**Lux**	0 to 1,999 lux	1 lux	±4.5% full scale
		2,000 to 19,999 lux	10 lux	
		20,000 to 50,000 lux	100 lux	
	Foot Candles	0 to 199.9 Fc	0.1 Fc	
		200 to 1,999 Fc	1 Fc	
		2,000 to 5,000 Fc	10 Fc	
Accessories				
4136	Data Acquisition System (for additional information see page 80)			
4138	Easy-Use Accessory Adaptor 115 VAC (for international adaptor see page 81)			

Traceable® Certificate

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Traceable® Ultraviolet Light Meter

Reads and records UV wavelengths at three different ranges

- Precise photo-diode, color-correction filter
- Unit recalls highest, lowest and average readings; also includes a HOLD key to freeze display
- Computer output allows for connecting to a computer or data logger for monitoring and keeping results
- Supplied: 1.9 cm diameter photocell, 1 m cable, battery, computer output, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
3253	0 to 199.9 µW/cm^2	0.1 µW/cm^2	±4 µW/cm^2 + 1µW/cm^2
	200 to 1.999 mW/cm^2	0.001 mW/cm^2	±0.04 mW/cm^2 + 0.01 mW/cm^2
	2.00 to 19.99 mW/cm^2	0.01 mW/cm^2	±0.4 mW/cm^2 + 0.1 mW/cm^2
Accessories			
4136	Data Acquisition System (for additional information, see page 80)		
4138	Easy-Use Adaptor (for international adaptor see page 81)		

Traceable® Sound Level Meter

Three decibel ranges for greater precision

- Response time can be adjusted by user to fast (0.2 seconds) or slow (1.5 seconds)
- Memory date-hold function stores highest readings achieved for later display
- Fulfils OSHA requirements for sound monitoring
- Recorder jack for capturing AC and DC 10 mV/dB data
- Provides weightings for both A (frequencies from 500 to 10 kilohertz) and C (frequencies from 30 to 10 kilohertz) to meet IEC 651 Type-2 standards
- Supplied: battery, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Response time
4335	low (35.0 to 80.0 dB)	0.1 dB	±2dB	fast (0.2 seconds) slow (1.5 seconds)
	medium (50.0 to 100.0 dB)			
	high (80.0 to 130.0 dB)			

Traceable® Digital Laser Tachometer

Use this high accuracy tachometer to read speeds of centrifuges, motors, and stirrers

- Touchless, no contact operation is safe and easy
- Laser pin-point accuracy anywhere from five centimeters to almost two meters away from any rotating object
- Supplied: batteries, self-adhesive reflecting tabs, internal light, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4060	10 to 99,999 RPM	0.1 below 1000, and 1 above	±1 RPM or 0.05%

TRACEABLE®
PRODUCTS

Traceable® Touchless/Contact Digital Tachometer

Unique memory feature permits recalling highest, lowest and last reading

- Takes only 3 seconds for most readings
- Includes contact readings with a rotating spindle as well as touchless operation
- Supplied: batteries, self-adhesive reflecting tabs, internal light, cone for RPM, wheel of surface speeds, carrying case, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4059	0 to 999.9 RPM	0.1 RPM	±0.05% of reading + 0.1 RPM
	1000.00 to 99999 RPM	1 RPM	±0.05% reading + 1 RPM

Traceable® Tachometer with Red LED Pointer

LED allows proper alignment for measurement

- Simple, touchless operation provides accurate readings in 2 seconds
- Optical no-contact measurements
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4262	10 to 99.99 RPM	0.001 RPM	±0.04% of reading + 0.02 RPM
	100.00 to 999.99 RPM	0.01 RPM	±0.04% of reading + 0.2 RPM
	1000.00 to 9999.99 RPM	0.1 RPM	±0.04% of reading + 2 RPM
	10000 to 99999 RPM	1 RPM	±0.04% of reading + 22 RPM

Traceable® Tachometer Touch

Lightweight and portable

- Any rotating surface may be touched by the cone convex tip, funnel concave tip or speed wheel for instant results
- Designed to measure centrifuges, pumps, rollers, shafts, gears, motors, and moving surfaces
- Short sampling time provides answers in two seconds
- Low battery condition is indicated on the display
- Supplied: battery, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy
4261	0 to 99.999 RPM	0.001 RPM	±0.04% reading + 0.01 RPM
	100.00 to 999.99 RPM	0.01 RPM	±0.04% reading + 0.1 RPM
	1000.0 to 9999.9 RPM	0.1 RPM	±0.04% reading + 1 RPM
	10000 to 99999 RPM	1 RPM	±0.04% reading + 10 RPM

Traceable® Certificate

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Traceable® Battery Tester

Checks alkaline, carbon, silver-oxide, mercury, nickel-cadmium and other batteries

- Simple color-coded scale immediately indicates battery conditions
- Provides true resistive load readings—real world usage; tests under actual operating conditions
- Gold-plated printed circuit board and silver-plated switches ensure accuracy and long life
- Supplied: 70 cm cable, test leads, Traceable® Certificate

Cat No.	Range	Number of ranges	Accuracy
3410	1.35 to 12 volts	13	±5%

Traceable® Digital Auto-Range Multimeter

Designed specifically for checking electrical functions of scientific equipment in labs

- Features an audible beep for checking continuity, ensuring instant detection of shorts/opens in probes, cables, or circuit boards
- Supplied: Traceable Certificate®, case, batteries, needle probes, alligator clips

Cat No.	Range	Accuracy
3250	1 millivolt to 400 volts; AC/DC; 0.1 to 2,000,000 ohms	2 units, or 2% of the reading

Variable-Speed Peristaltic Tubing Pump

Compact, variable-flow, bi-directional pump offers adjustable flow delivery

- Ideal for use with conductivity flow-thru cells, liquid chromatography, collecting fractions, pH/circulating fluids or buffers in baths, and moving corrosive materials
- Five different tubing sizes provide fine resolution with a wide flow range; revolution of one roller delivers a precisely measured volume specific to the tubing size and motor speed
- Fluid contacts only tubing for contamination-free pumping
- Tubing may be used with fluid temperatures from –80 to 500°F (–62 to 260°C)
- Pump has a purge/prime switch for high-speed emptying/filling, reverses at touch of a switch
- Supplied: silicone tubing, polypropylene fittings/nipples, AC adaptor, accessory battery connector

Cat No.	Flow rate range
3384	0.005 to 1.8 ml/minute
3385	0.03 to 8.20 ml/minute
3386	0.4 to 85.0 ml/minute
3389	4.0 to 600 ml/minute

Variable-Flow Chemical Transfer Pump

Designed for pulseless fluid transfer at variable flow rates

- Pumps fluids with a viscosity to 200 centipoises
- May be used with fluid temperatures from –40 to 200°F (–40 to 93°C)
- Pump has a purge/prime switch for emptying/filling; also reverses for ease in draining tubing
- Barbed inlet/outlet ports use any type of tubing with an inside diameter of 4.75 mm
- Chemical-resistant, wetted parts are Dupont Delrin®, 304 stainless-steel, Viton®, and Dupont Teflon®
- May be used with up to 36 meters of tubing for remote sampling
- Supplied: 115 VAC UL-rated wall power supply

Cat No.	Flow rate range
3388	4.25 ounces to 0.625 gallon (120 to 2,250 ml) per min

**TRACEABLE®
PRODUCTS**

Hose/Tubing Clamps

For use with all types of rubber and plastic tubing

- Made of chemical/corrosion-resistant, non-conducting nylon
- One-piece, reusable clamp squeezes shut for a leak proof seal pressing the side releases the clamp
- May be chemically or gas-sterilized for biomedical or food applications
- Use within temperature range: 32 to 194°F (0 to 90°C)

Cat. No.	Quantity	Inside Clamp Diameter
3261	100/pk	6.25 to 7.37 mm
3262	100/pk	9.14 to 10.31 mm
3263	100/pk	10.41 to 11.89 mm
3264	100/pk	12.07 to 13.61 mm
3265	100/pk	13.67 to 15.44 mm
3266	100/pk	15.16 to 16.89 mm
3267	100/pk	17.02 to 19.81 mm
3268	100/pk	18.54 to 21.08 mm
3269	100/pk	22.10 to 24.77 mm
3270	100/pk	24.21 to 27.76 mm
3271	100/pk	26.21 to 30.15 mm
3272	100/pk	31.75 to 36.20 mm
3273	100/pk	35.71 to 40.90 mm
3280	65/pk (assortment)	6.25 to 40.90 mm

Tight-Ties™

Self-locking ties made of chemical-resistant Nylon™

- Works with all types of plastic/rubber tubing
- Tensile strength is 5 to 22.6 kg
- Unique tapered tips for fast inserting and tightening
- Use within temperature range: –40 to 85°C

| Cat. No.	Quantity	Overall Length	
3285	400/pk assortment	4 to 14"	101.6 to 355.6 mm
3286	100/pk	4"	101.6 mm
3287	100/pk	5⅝"	142.88 mm
3288	100/pk	8"	203.2 mm
3289	100/pk	11"	279.4 mm
3290	100/pk	14"	355.6 mm

Standard Check Valves

Made of zero maintenance, chemical resistant Kynar®/Viton®

- Prevents damage to equipment, pumps, and flow systems by preventing back flow; may be autoclaved
- Use with acids, bases, water, chemical processing, alcohols
- Use for liquids, gases, pressure, vacuum applications
- Operating ranges are 0 to 50 PSI and –40 to 126°C

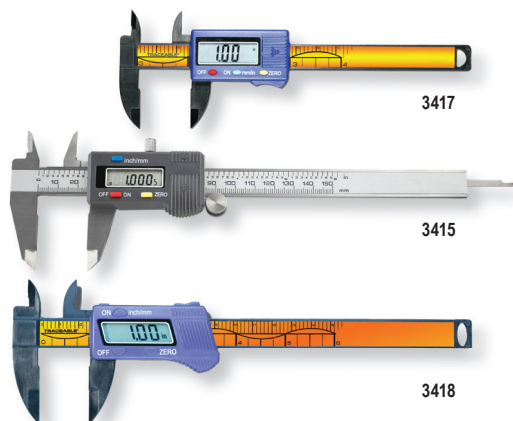| Cat No.	Quantity	Overall Size	Use Tubing I.D size
3295			3.18 mm
3296	6/pk	31.75 mm	4.75 mm
3297			6.35 mm
3298			9.5 mm
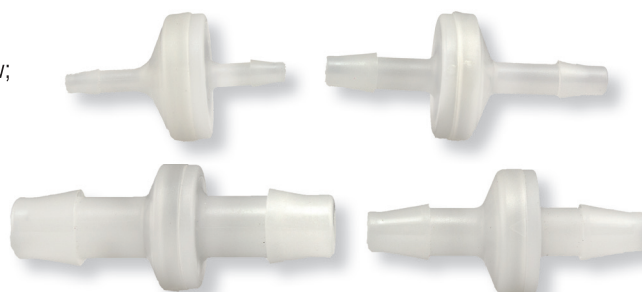
Ultrasonic Automatic Measuring Meter

Measure any space without needing a tape measure

- Simply point and shoot to measure distance, area, and volume
- One-key operation automatically performs length, area, or volume calculations
- Memory permits computing areas and volumes from stored measurements
- Supplied: battery, carrying case

Cat. No.	Range	Resolution	Accuracy
3419	2 to 50 feet (0.61 to 15.24 meters)	1" and 0.01 meters	1% ±1 digit

75

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3417

3415

3418

Traceable® Digital Callipers

Ideal for measuring inside diameter, outside diameter and depth

● Designed for laboratory use, measures in inches and millimeters

● Zero button instantly sets unit to zero when jaws are at any position—permits, without calculations, setting a Floating Zero™ or reference point to read "greater than or less than results with a minus sign displayed"

● No lubrication is ever required on the ultra-smooth slide bar, runs on the supplied battery for 10,000 hours

● Supplied: carrying case, battery, Traceable® Certificate

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" or ±0.03mm		±0.01" or ±0.2mm	
Depth Bar	Yes		No	
Thumb roller/Lock screw	Yes		No	
Non-metallic/non-conductive	No		Yes	
Dimensions	23 x 7.6 cm	28 x 7.6 cm	17.8 x 6.4 cm	24.1 x 7.6 cm
Weight	141.75 g	170 g	28.3 g	56.7 g

3475

3476

Traceable® SpatulaBalance™

Unique spatula both scoops material and displays weight

● Three position soft-touch keys in the handle tares (sets to zero), holds (freezes display) and changes grams to ounces

● Scoop detaches from balance for dishwasher-safe cleaning

● LCD indicates low battery

● Markings on see-through scoop are graduated from 5 to 30 millilitres in 5 millilitre increments for weighing liquids with ease

● Supplied: batteries, detachable scoop, Traceable® Certificate

Cat. No.	Range	Resolution	Accuracy	Scoop capacity
3475	0 to 300.0 g (0 to 10.580 oz)	0.1 g (0.005 oz)	±0.2 g or ±0.25%	30 ml/1.1 fl. oz (vol: 32 cm^3/1.95 inch^3)
Accessories				
7050	Replacement scoop, 30 ml			
3476	Accessory scoop, 40 ml			

3540

3546

Ultra-Clean™ Supremium Aluminium Foil

Pure aluminium foil is manufactured specifically for lab

● Foil is impermeable to light, oxygen, and water

● Premium grade foil eliminates problems caused by thinner foils

● 100% recyclable

Cat. No.	Type	Dimensions	Thickness	Unit Package	Case qty
3540	roll	12" x 25'	regular	each	12 each
3541	roll	12" x 75'	regular	each	12 each
3542	roll	12" x 200'	regular	each	12 each
3543	roll	18" x 25'	heavy-duty	each	12 each
3544	roll	18" x 50'	heavy-duty	each	12 each
3545	roll	18" x 25'	extra heavy-duty	each	12 each
3546	pop-ups	9" x 10¾"	regular	200 sheets	12 each

T R A C E A B L E®
P R O D U C T S

Clean-Wipes™

Universal clean-up tool

- Strong, lint-free, non-woven soft cloths will not scratch surfaces
- Pre-moistened Clean Wipes™ clean even the dirtiest parts
- Ideal for wiping optical parts, microscopes and lenses
- Ability to choose solution of choice with Dry Clean Wipes™—simply add 29.5 ml to canister
- Individually dispensed, reclosable container, snap-on sealed top eliminates contamination, dust, and dirt

Cat. No.	Liquid Solution	Quantity/canister
2065	70% reagent-grade isopropyl alcohol and 30% reagent-grade deionized water	100 wipes
2060	100% pure reagent-grade deionized water	100 wipes
2061	Dry—user adds any solution	100 wipes

2065

Optic™ Glass Wipes

Made of lint-free microfibre cloth

- Non-woven, lint-free cloth is pre-moistened with a unique formulation—easily removes oil, grease and lint
- Designed specifically for wiping goggles, eyeglasses, lenses, microscopes and fume hood windows
- Individually dispensed, wipes are handy and ready for instant use

Cat. No.	Size	Quantity/canister
2067	15 x 22.9 cm wipes	100 wipes

Cheesecloth Wipes

Ideal for wiping cuvettes, microscopes, glassware, syringes, pipettes and pH electrodes

- Meets all cleanliness specifications of USP (United States Pharmacopoeia) and Federal Specification CCC-G-101c
- Pure wipes absorb 6 times their weight of solvents and aqueous solutions
- Certified to be 100% pure cotton of reagent-grade quality and purity
- Can be used as a filtering material due to their inertness to harsh solvent

Cat. No.	Size	Quantity
2051	22.8 cm-square pad (8-ply) unfolds to approximately 45.8 x 91.4 cm	60/dispenser box
2057	10 cm-square pad (8-ply) unfolds to approximately 17.8 x 35.5 cm	200/box
2055	1 meter wide	100-yard bolt

2051

Adjustable Spray Wash Bottles

Convenient double headed design—adjustable spray nozzle

- Instant-off trigger release eliminates messy drips
- Chemical-resistant and virtually unbreakable bottles are made of high-density polyethylene (HDPE), sprayer is made of polypropylene
- Bottles may be gas or chemically sterilized, dishwasher safe
- Double-headed feature (Cat. No. 3340) eliminates removing a dripping pump and allows refilling in seconds through a separate opening

Cat. No.	Features	Volume	Quantity
3340	Double-headed	1000 ml	1
3345	Adjustable spray nozzle	240 ml	3/pack

3340   **3345**

Traceable® Certificate

To assure accuracy an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Humidity Sponge™

Turns any container into a desiccator

- Non toxic desiccant—perfect for drugs, food, electronics, optics, and equipment
- Bags are guaranteed to retain 16% moisture by weight, typical results are 37% moisture absorption
- Desiccant meets US FDA requirements—certified ISO Class 5 (Class M3.5) cleanroom-compatible
- Indicator Sponge shows when moisture capacity has been reached

Cat. No.	Description	Size	Quantity
3150	Humidity Sponge™ Regenerable	76.2 x 76.2 x 6.4 mm	40/pack
3150	Humidity Sponge™ Indicator	76.2 x 76.2 x 6.4 mm	40/pack

3150

Desi-Vac™ Vacuum Pump Containers

Achieves a vacuum of better than 5 meters of water with built-in pump

- Ideal for drying, preserving, storing and even shipping sample
- Vacuum pump built into the top removes air with manual strokes
- Release key on top allows air into the container to remove lid

Cat. No.	Size	Volume
3160	11.4 x 12.7 cm	700 cc
3163	12.7 x 18.4 cm	1500 cc

3160   **3163**

Anti-Static Static-Away™ Brushes

Eliminates possibility that static will damage sensitive lab work

- Washable, natural hair and synthetic conductive fibres simply remove static as it cleans
- Ideal for cleaning film, slides, optics, cuvettes, microscopes, electronics, monitors
- Brushes allow access to difficult places and eliminate touching critical equipment

Cat. No.	Brush width	Handle length
3316	6.4 cm	3.8 cm
3321	2.5 cm	12.7 cm
3322	5 cm	12.7 cm
3323	7.6 cm	15.2 cm

3321
3323
3316
3322

Dust'it™ Blower

Environmentally friendly—no aerosols

- Powerful bulb duster forcibly blows away dust, lint and dirt by providing high-pressure jets of air exactly where desired
- One-way inlet valve at top stops air/dust from being drawn through tip
- Non-conductive plastic sleeve-tip prevents scratches and permits cleaning optical lenses, slides, circuit boards, cuvettes

Cat. No.	Description
3319	Dust'it™ Blower 3/pack

TRACEABLE®
PRODUCTS

Laser Pointer

Powerful laser that clips to a notebook or lab coat pocket

- Perfect for slide presentations, detailed scientific discussions, microscope projections, field studies
- Highly visible 630-680 nm wavelength red light has 3.5 mm beam diameter
- Laser Class IIA has an output power of 5 mW and a range of over 91 meters

Cat. No.	Supplied
3140	battery, pocket clip

Laser Key-Chain

Key-chain makes it easy to carry anywhere

- Laser is designed specifically for slide presentations, wall charts, field use
- Pointer's brilliance works equally well in daylight or dark
- Output is 4 mW with a range of 122 meters

Cat. No.	Supplied
3143	battery, key-chain

Key-Chain Micro-Laser Pointer

Laser is perfect for slide presentations, wall charts and lectures

- Laser range is 92 meters
- Brilliant red light at highly visible 650 nm wavelength with a beam diameter of 3.5 mm

Cat. No.	Supplied
3141	battery, key-chain

Glassware Rescuer™

Half-round/half-flat shape smooths jagged edges

- Saves glassware, recovers beakers, and preserves flasks with handy industrial diamond file
- Makes glassware safe for use
- Size: 0.6 cm file diameter, 10.2 cm file length, 20.3 cm overall

Cat. No.	Features
3315	Non-skid, faceted handle is easy to hold

Liquid Alarm

Inexpensive guard for your valuable experiments and samples

- Loud alarm sounds for 30 hours when spills and overflows occur
- For detection when drums, tanks or flasks are close to overfilling
- Perfect reminder for an unattended filling container
- Red LED flashes

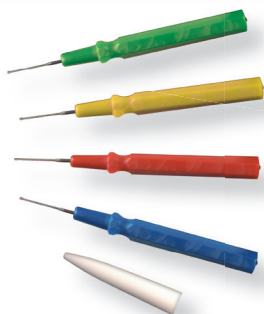| Cat. No.	Supplied
3240	battery, 3 meter cable

79

Micro Probes, 6-pack

Hand-honed to needle sharpness

- For manipulation of micro work, inspecting, microscopes, gluing
- Handles are non-slip and ergonomically designed

Cat. No.	Supplied
3310	6 each microprobes (stainless-steel)

Micro Spatulas, 4-pack

Small yet mighty flat-ended stainless-steel blades

- Four sizes: 0.1, 0.3, 0.5, 1.0 mm
- Overall length is 6 cm

Cat. No.	Supplied
3300	4 each micro spatulas (stainless-steel)

Labtool II™

Fourteen tools for hundreds of uses

- Features: 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
- Size: 8.9 cm long when closed, weight: 198.4 g

Cat. No.	Supplied
3326	labtool, carrying case

Mini-Labtool™ with Key-Chain

Tool chest on a key-chain

- Features: 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 6.4 cm when closed, weight: 85 g

Cat. No.	Supplied
3327	labtool, carrying case, key-chain

Write-On™ Aluminium Tags

Features a soft centre that takes messages on both sides

- Extremely durable and suited for use in moist environments within the range of –40 to 300°F (–40 to 148°C)
- Can be written on the ordinary ballpoint pen
- Handy size of 8 x 2.5 cm makes it ideal for tagging valves, tubing, samples, and cylinders

Cat. No.	Supplied
3070	48 tags, wires

**TRACEABLE®
PRODUCTS**

Microscope Slide Holders/Cabinet

Numbered reference lines for any ID system

- Sort, classify, and arrange slides—slides stay clean, untouched
- Compatible with all makes of slides
- Tabbed cards with protective frame ensures safety and cleanliness of specimens

Cat. No.	Quantity	Storage capacity
1008	12/pk	48 slides (7.6 x 2.5 cm slides)
1007	12/pk cards and 1 plastic box	48 slides
1009	1 each steel cabinet	100 slide holders (400 slides)

1008   **1009**

Permanent Marking Pen Assortment

No-smear pens can write on almost anything—perfect for marking samples

- Perfect for marking lab samples, microscope slides, photographic slides, glass and plastic beakers, and plastic sample bags
- Permanent ink dries quickly and is waterproof and fade proof
- Writes on all surfaces including glass, film, wood, plastic, metal, rubber, and porcelain

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

Scientific Technical Pen Assortment

Precision pens are perfectly balanced

- Smooth-flowing, fade-proof ink is patented formulation
- Available in narrow 0.2mm lines for sharp, precise and clear writing
- Instant-drying ink eliminates smearing and bleeding

| Cat. No	Quantity	Line width	Color	Cat. No.	Quantity	Line width	Color
3041	6	0.2mm	Black		3	0.2 mm	Black
3042	6	0.4mm	Black		3	0.4 mm	Black
3043	6	0.2mm	Red		1	0.2 mm	Red
3044	6	0.4mm	Red	**3040**	1	0.4 mm	Red
3045	6	0.2mm	Blue		1	0.2 mm	Blue
3046	6	0.4mm	Blue		1	0.4 mm	Blue
3047	6	0.2mm	Green		1	0.2 mm	Green
3048	6	0.4mm	Green		1	0.4 mm	Green
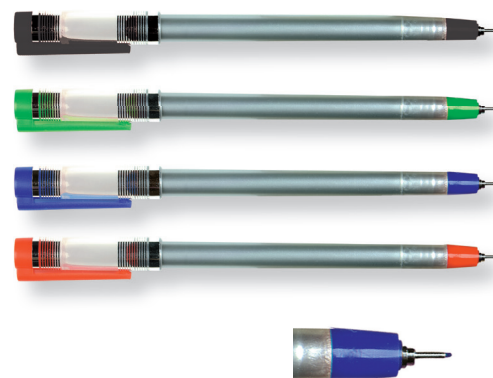
Lab Label Maker™

Quickly/easily makes labels for chemicals, bottles, shelves, lab equipment

- Self-adhesive colored tape sticks to glass, plastic, metal, rubber, or wood
- Raised white letters on 9.5 mm wide tape are readable from 2.4 meters

| Cat. No.	Description	Size
1600	Lab Label Maker™ (supplied: 2 (red & blue) rolls of Label Tape)	—
Accessories		
1601	Lab Label Tape™ Black, 4 roll/pk	9.5 x 3000 mm
1602	Lab Label Tape™ Red, 4 roll/pk	9.5 x 3000 mm
1603	Lab Label Tape™ Blue, 4 roll/pk	9.5 x 3000 mm
1604	Lab Label Tape™ Green, 4 roll/pk	9.5 x 3000 mm
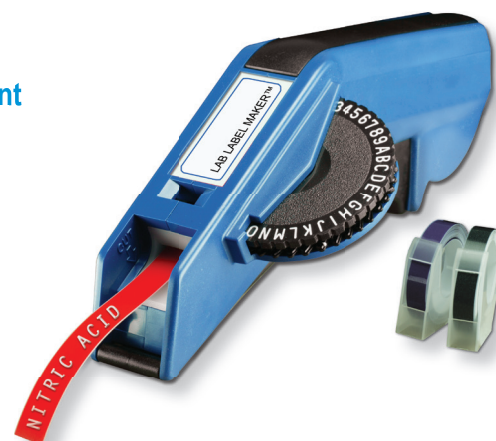
Magnifier Lamp (2x)

Sliding shutter cover provides lens protection when not in use

- Useful in inspection, electronics, quality control, sample examination, and biological analysis
- Brilliant LED light closely resembles daylight for optimal color detection and clarity
- Large viewing area (10 x 6.4 cm) is easy to read and arm extension is 78.7 cm
- Clamps vertically or horizontally to top or side of any edge

Cat. No.	Magnification	Features
3358	2X	supplied with clamp to affix to any bench or table
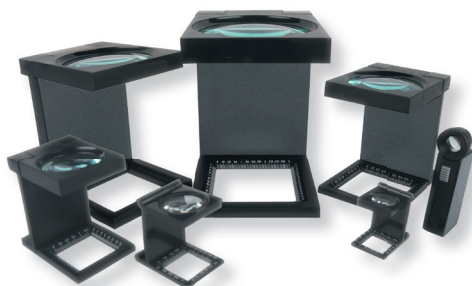
Hands-Free™ Fold-up Magnifiers

Ruler markings in both inches and millimeters assist with measuring

- All glass optics assure perfect focus with zero distortion
- Designed specifically for use in quality control, labs, food, electronics, manufacturing
- Hands-Free™ Magnifiers allow two-handed examination of objects
- Folds up for compact storage

Cat. No.	Magnification	Lens Diameter	Lighted	Replacement Battery
3430	2.5 X	11.11 cm	YES	1111, 4 each
3431	2.5 X	8.9 cm	YES	1111, 4 each
3432	3.0 X	7.6 cm	NO	n/a
3433	3.5 X	5 cm	NO	n/a
3434	5.0 X	3.2 cm	NO	n/a
3435	7.0 X	2.2 cm	NO	n/a
3436	10.0 X	1.3 cm	YES	1105, 2 each

3355   **3356**

Illuminated Microscope

View slides at any site with a large viewing area

- Hand-held unit is perfect for inspection, quality control, field use, clinical observation, cloth/paper examination, and plant studies
- View slides in field with snap-on attachment
- Adjustable light source directs the bulb onto the exact area being examined
- Adjustable focus control knob allows for crisp viewing
- Supplied: battery, vinyl supply case (model 3356 only)

Cat. No.	Magnification	Features	Size/Weight
3355	60X to 100X	illuminated, snap-on slide holder	13.9 x 3.8 x 2.2 cm, 28.3 g
3356	30X	illuminated	13.9 x 3.8 x 2.2 cm, 28.3 g

Illuminated Magnifiers

Powerful lighted magnifiers provide perfect-focus and defined view of surface details

- Features state-of-the-art LED lamps and provide evenly-distributed light over surface being observed
- Low-power consumption and high-efficiency lamps improve battery life and performance

Cat. No.	Magnification	Magnifying lens size	Features
3350	2X with 4X spot	7.6 cm diameter	illuminated, hand-held
3351	4X	4.5 cm diameter	illuminated, hand-held

3350   **3351**

TRACEABLE® PRODUCTS

Counter-Pen™

The ideal cell growth colony counter

● Combination marker and digital counter designed for the lab and plant

● Sound and count occur simultaneously when black mark is made with felt-tipped pen

● Essential for counting cell growth on petri dishes, inventory parts, and tally samples received

● Pen marks hold place if interrupted and counter holds total

● Supplied: replaceable pen, cap, battery

Cat. No.	Counting quantity	Size
3133	99,999	152 x 16.7 mm

Digital Counter with Key-Chain/Wrist-Strap

Designed for easy-use and fail-safe counting

● ABS plastic construction with water-resistant seal

● Carry anywhere

Cat. No.	Counting quantity	Size	Supplied
3129	99,999	4.8 x 1.3 cm, weight is less than 28 g	metal clip, wrist-strap, battery

Hand Tally Counter

Counting made easy

● Numbers instantly and automatically return to zero with a twist of the reset knob

● Protective window seals out dust, dirt and humidity

● Corrosion-proof stainless-steel for long-life

Cat. No.	Counting quantity	Supplied
3125	9,999	loop for lanyard

Big-Digit Solar-Powered Calculator

Environmentally friendly, never again buy a battery

● Performs all arithmetic operations (add, subtract, multiply, divide), and features memory, percent, and floating decimal point

● Large digits allow effortless readings

● Supplied: solar-panel, battery, protective case design

Cat. No.	Functions
6023	add, subtract, multiply, divide, memory, percent, and floating decimal point

12 Digit Computer
Calculator displays the entire answer to 12 digits
- Oversized, raised keys and jumbo digits make it easy on fingers and eyes
- Twelve digits end rounding errors and confusing scientific notation
- Supplied: solar panel, battery

Cat. No.	Functions
6029	arithmetic calculation, percent, memory, floating decimal, ratios, and grand totals

Metric Converter
Change lab measurements to US or metric in an instant
- Fast and convenient
- Provides fast and accurate answers for 126 metric conversions
- Supplied: battery, automatic flip-open LCD cover, bench top stand

Cat. No.	Functions	Size
1000	converts: length, area, volume, weight, liquid, energy, and temperature	7.6 x 9.5 x 1.27 cm, weight: 56.7 g

Compact-Size Metric Converter
Converts length, area, volume, weight, liquid, energy, temperature
- Fast and convenient
- 126 types of metric conversions
- Supplied: battery, protective case

Cat. No.	Functions	Size
1001	converts: length, area, volume, weight, liquid, energy, temperature	10.8 x 1.27 x 6.4 cm, weight: 28.3 g

Scientific Calculator
Performs over 50 scientific functions
- Scientific calculator performs 99% of lab's routine and not-so-routine calculations
- Three-key memory and forever-memory store data when the unit is off
- Supplied: solar-panel, battery, protective case design

Cat. No.	Functions
6024	memory, roots, logs, trigs, hex; statistical: standard deviation, mean, sum of squares, sum of data

TRACEABLE®
PRODUCTS

Solar Desktop Calculator

Solar-powered unit can be read in any light

- Large 8 or 12-digit easy-to-read display is angled to eliminate reflected glare
- Supplied: solar-panel, battery

Cat. No.	Digits	Functions
6031	8	add, subtract, multiply, divide, percent, 3-key memory, square root, floating decimal point
6032	12	add, subtract, multiply, divide, percent, 3-key memory, square root, floating decimal point

Mini-Dolly Folding Cart

Made from high-impact ABS plastic with chrome-plated steel durability

- Cart folds to a compact-size making it easy to store
- Super-glide wheels swivel for complete manoeuvrability
- Supplied with bungee cords

Cat. No.	Weight Capacity	Size
3080	120 kg	Platform: 45 x 65 cm

Aluminium Fold-Up Cart

Easily move heaviest lab chemicals, drum and glassware cases

- Folds up for easy storage to a compact briefcase-size
- Sturdy aluminium alloy construction
- Supplied with bungee cords
- Rubber bumpers on all corners protect walls from accidental nicks

| Cat. No.	Weight Capacity	Size
3081	150 kg	Handle (adjustable): 68.5 or 76.2 cm; platform extends: 45 to 71 cm; width: 40 cm

Aluminium Fold-Up Hand Truck

Folds to a compact size for easy storage

- Made of aluminium alloy
- Moves cartons, chemicals, gas cylinders easily
- Supplied with bungee cords

Cat. No.	Weight Capacity	Size
3082	100 kg	71 cm (lower position) and 105.6 cm (extended) flip-down platform: 35.5 x 24 cm
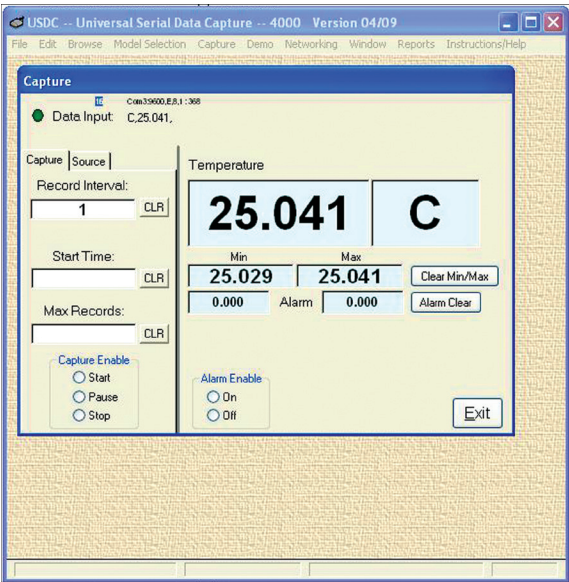
Computer Data Acquisition System with USB Cable

Easily keeps track of results for thermometers, hygrometers, barometers, light meters, anemometers, manometers, dissolved oxygen, conductivity and more

- Allows up to eight unique Traceable® meters to simultaneously capture data and send it to directly to email to any smartphone or computer
- Readings are saved to a file that can be viewed, printed as-is, or merged in a report or spreadsheet format
- Data continues to be collected in background even when user works on other software programs
- 24/7 audible/visual alarm reminds user to check on data
- Supplied: Windows CD, 1.8 meter cable—USB, serial, meter connections

Data Acquisition System Cat. No.	Product Description	Page No.	Product Cat. No.
4136	Traceable® Pressure/Vacuum Gauge	62	**3466/3469**
4136	Traceable® Dual-Display Light Meter	69	**3252**
4136	Traceable® Ultraviolet Light Meter	70	**3253**
8045	Traceable® Manometer/Pressure/Vacuum Gauges	60	**3460/3463**
4099	Traceable® Digital Thermometer	17	**4000**
4237	Traceable® Memory Wide-Range Thermometer	25	**4007**
4099	Traceable® Humidity/Temperature/Dew Point Meter	54	**4080/4085**
4237	Traceable® General-Purpose Hygrometer/Thermometer	53	**4087**
4136	Traceable® RTD Platinum Thermometer	17	**4132**
4136	Traceable® Double Thermometer	27	**4137**
4136	Traceable® Dual-Display Conductivity Meter	64	**4169**
4136	Traceable® Humidity/Thermometer	55	**4189**
4136	Traceable® Moisture Meter	68	**4310**
4136	Traceable® Dissolved Oxygen Meter	68	**4320**
4136	Traceable® Hot Wire Anemometer/Thermometer	60	**4330**
4237	Traceable® Anemometer/Thermometer	61	**4331**
8045	Traceable® Expanded Range Conductivity Meter	64	**4360**
8045	Traceable® Memory Hygrometer/Thermometer	55	**4385**

**TRACEABLE®
PRODUCTS**

Clear Plastic Lab Wrap
Ultra-clean film ensures sample purity and eliminates contamination

● Low tangle, high cling, ultra-clean film designed for lab
● Metal tear-off bar for ease in achieving exact size needed
● Unique flaps prevent roll from leaving box

Cat. No.	Dimensions
3470	30.5 cm wide x 30 meters long

Flexible-Arm™ Light
Lamp moves in all directions and places light exactly where needed

● Beam closely resembles daylight for correct color detection
● Designed specifically to reduce distortion, increase contrast, and give visual clarity up to 40% greater than typical lamps

Cat. No.	Arm Length	Supplied	Weight
3095	50.8 cm	35-watt soft-white Halogen light, 3.2 kg, 17.8 cm base, white reflector,	3.6 kg
3096	78.7 cm		
Accessories			
3098	Replacement Halogen Bulb		

Accessories

Cat. No.	Description	Use with Cat. No.	Product Page No.
1523	AC Adaptor, International— Adaptor for continuous operation eliminating the need to replace batteries. Supplied with interchangeable blades.	4000	17
		4080/4085	54
		6412/6413	16
4071	Accessory Battery Eliminator, Adaptor 115 VAC/60 Hz adaptor for use when battery operation is not possible.	4163	63
4138	Easy-Use Accessory Adaptor 115 VAC adaptor for use when battery operation is not possible.	3251	63
		3252	69
		3253	70
		4132	17
		4169	64
		4310	68
		4320	68
4394	33% Calibration Standard with calibration instructions	4185/4385	55
4395	75% Calibration Standard with calibration instructions	4185/4385	55
8182	Replacement Printing Paper (pack of 2 rolls)	4100/4180	28/56

Battery Information

Cat. No.	Description
1005	CR2032 lithium (coin)
1039	D357 or 357A alkaline button cell
1104	L736 alkaline button cell
1105	AAA alkaline
1107	CR-1616 lithium (coin)
1108	N-TYPE 1.5V
1111	AA alkaline
1112	9-Volt
1113	AAAA titanium
4032	393 silver-oxide button cell

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What is Traceable®?

Traceable® means that a unit is individually serialized, calibrated, and certified with an unbroken chain of traceability to the NIST.

In the context of measurement science, traceability is the result of a measurement can be traced back to a national authority such as the National Institute of Standards and Technology (NIST), a United States Government Agency within the Commerce Department.

Why Traceable®?

For a critically controlled and certified process, make sure that you are using calibrated instruments. Traceable® units come with a unique and individually serialized certificate that shows all of the information needed for validation.
You can be confident in the readings that you are getting and our units are always cost effective.

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