NEW Traceable® Logger-Trac™ Temperature Datalogger

The ultimate monitoring partner—displays, records, and reports data every step of the way

- Know the temperature duration immediately, no data download required
- All critical information is displayed on the screen – current, MIN/MAX temperatures; recording status, run time, cumulative alarm time, quarantine status, alarm tally
- Supplied with Traceable® Certificate:. An individually serial-numbered and individually calibrated Traceable® Certificate is provided from an ISO/IEC 17025 (1750.01) calibration laboratory

Thomas No.	Range	Resolution	Accuracy
1196T63	−35.0 to 50.0°C (−31.0 to 122°F)	0.1°	±0.2°C from 0 to 10°C; ±1°C otherwise
Accessories			
1196T66	Logger-Trac™ Paper sleeves (100/pk)		
1196T68	MaxiThermal software		
1196T67	Temperature Logger-Trac™ Cradle/Cable		

NEW Traceable® Logger-Trac™ RH/Temperature Datalogger

Mobile unit travels with shipments to track RH and Temperature

- Displays Cumulative Alarm duration from user selected MIN/MAX humidity and temperature values
- Reusable/Re-programmable—perfect for monitoring material during transportation
- Displayed during recording: Current RH and Temperature, Min/Max temperature achieved, cumulative running time
- Supplied with Traceable® Certificate: An individually serial-numbered and individually calibrated Traceable® Certificate is provided from an ISO/IEC 17025 (1750.01) calibration laboratory

Thomas No.	Range	Resolution	Accuracy
1196T64	−29.0 to 72.0°C (−20.2 to 161.6°F)	0.1°	±0.2°C (0 to 10°C); ±0.5°C otherwise
	0.0 to 100.0% RH	0.1% RH	±3% RH between (25 to 75% RH); ±5% RH otherwise
Accessories			
1196T68	MaxiThermal Software		
1196T69	Data Capture Cable		

NEW Traceable® Logger-Trac™ LN2 Temperature Datalogger

External sensor designed for −196.0°C environments in the lab or in transit

- Displays Cumulative Alarm duration from user selected MIN/MAX temperature values
- Reusable/Re-programmable—perfect for monitoring cryo-material in transit as well as reagents, food, clinical/frozen samples, and pharmaceuticals in any location
- Supplied with Traceable® Certificate: An individually serial-numbered and individually calibrated Traceable® Certificate is provided from an ISO/IEC 17025 (1750.01) calibration laboratory

Thomas No.	Range	Resolution	Accuracy
1196T65	−29.0 to 72.0°C (−20.2 to 161.6°F) (internal sensor)	0.1°	±0.2°C (2 to 10°C); ±2°C otherwise (int)
	−196.0 to 72.0°C (−328.0 to 161.6°F) (external probe)		±0.2°C (0 to 30°C); ±2°C otherwise (ext)
Accessories			
1196T68	MaxiThermal Software		
1196T69	Data Capture Cable		

NEW Mini-Logger-Trac™ Temperature Datalogger

Perfect for monitoring material during transportation

- Displays cumulative Alarm Duration from user selected Min/Max values
- Reusable/Re-programmable, storage capacity: 7,680 readings
- Integrates with MaxiThermal Software for complete data analysis

Thomas No.	Range	Resolution	Accuracy
1189Q88	−31.0 to 122.0°F (−35.0 to 50.0°C)	0.1°	±0.2°C from 0 to 10°C; ±1°C otherwise
Accessories			
1189Q89	Mini-Logger-Trac™ Temperature Cradle/Cable		
1196T68	MaxiThermal Software		

2

Thomas Scientific

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Phone 800.345.2100 • *Fax* 800.345.5232 • PO Box 99 • Swedesboro, NJ 08085

Traceable® Excursion-Trac™ Datalogging Refrigerator/Freezer Thermometers **NEW**

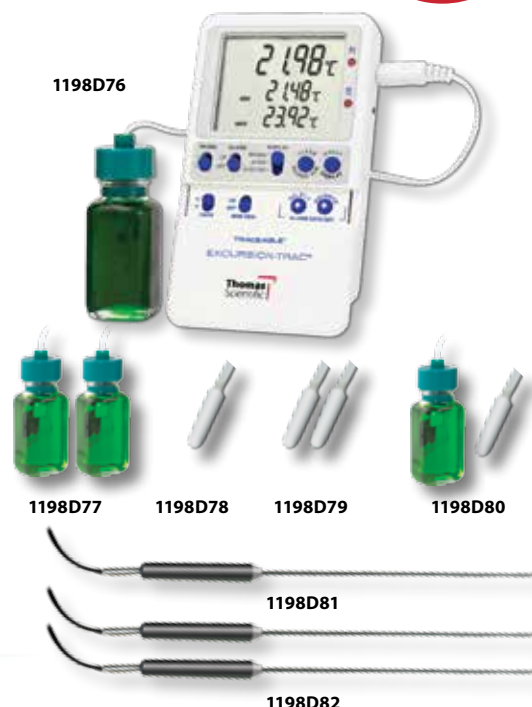### Datalogging thermometer with user-defined time intervals

- Stores up to 10 unique alarm events
- Meets current CDC requirements for vaccine storage and monitoring
- Rolling memory structure, maintains most recent 525,600 temperature observations
- Memory can be cleared on unit after downloading data to USB stick
- Hassle-free retrieval of data—unit can remain in use while downloading/analyzing data
- Status indicators—low battery, memory full, USB data transfer, active alarm state
- Supplied: stand, Velcro®, magnetic strips, wall mount, batteries, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy	Probe
1198D76	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 bottle (patented)
1198D77	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 bottles (patented)
1198D78	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 Bullet™
1198D79	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 Bullets™
1198D80	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 bottle & 1 Bullet™
1198D81	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 stainless-steel
1198D82	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 stainless-steel

Temperature-buffered glycol bottle probe mimics solution

Bottle and solution insulate sensor from rapid changes, as an example, when a refrigerator door is opened. Solution mimics exact temperature of samples.
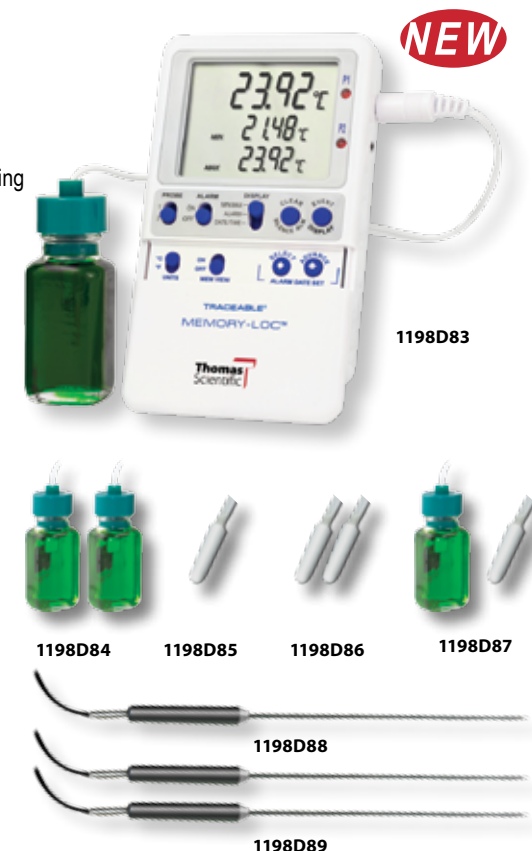
Traceable® Memory-Loc™ Datalogging Refrigerator/Freezer Thermometers **NEW**

Data-logging thermometer that can be used in 21 CFR 11 environments

- 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
- Data-logging thermometer with fixed one minute logging interval
- Stores up to 10 unique alarm events
- Hassle-free retrieval of data—unit can remain in use while downloading/analyzing data
- Status indicators—low battery, low memory, USB data transfer, active alarm state
- Supplied: stand, Velcro®, magnetic strips, wall mount, batteries, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy	Probe
1198D83	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 bottle (patented)
1198D84	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 bottles (patented)
1198D85	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 Bullet™
1198D86	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 Bullets™
1198D87	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 bottle & 1 Bullet™
1198D88	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	1 stainless-steel
1198D89	−50.00 to 70.00°C (−58.00 to 158.00°F)	0.01°	±0.25°C	2 stainless-steel

Traceable® to NIST for Accuracy

An individually-numbered Traceable® Certificate is provided which assures accuracy from an ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Traceable® High-Accuracy Refrigerator Thermometer

High accuracy thermometer can monitor two different areas of any refrigerator or freezer

- Reads to 0.01° while monitoring temperatures in refrigerator and freezer simultaneously or two refrigerator locations, °F/°C switchable
- Triple display shows minimum, maximum and current temperatures
- 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
- Unit displays the exact time and date when dual thermometer alarms are triggered, alarms are programmable in 0.1 increments
- Monitors minimum and maximum readings and displays the exact time and date when minimum and maximum temperatures occurred for both probes
- Supplied: battery, sensors, 10-foot cable, magnetic strips, Velcro®, bench stand, Traceable® Certificate

1227U03

1227U04   **1227U05**

Thomas No.	Range	Resolution	Accuracy	Probe
1227U03	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.30°C	1 Glycol-filled bottle (patented)
1227U04	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.30°C	2 Glycol-filled bottles (patented)
1227U05	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.30°C	2 Bullets™

Traceable® Refrigerator/Freezer Thermometer

The world's most popular refrigerator/freezer thermometer

- Triple display simultaneously shows MIN/MAX and current temperatures, °F/°C switchable
- Accurately monitor temperatures in freezers, water baths, heating blocks, incubators, and refrigerators with this enclosed temperature-buffered sensor
- Bottle insulates sensor from rapid temperature changes when refrigerator door is opened
- Minimum/maximum monitors high and low 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
- High-impact, chemical-resistant ABS plastic case: 2¾ x 4¼ x ¾ inches, weight: 4 ounces
- Supplied: flip-open stand, 10-foot micro cable, wall mount, Velcro®, magnetic strips, Traceable® Certificate

9327L12

9338E60

Thomas No.	Range	Resolution	Accuracy	Probe
9338E60	−58 to 158°F (−50 to 70°C)	1°	±1°C	0.187-inch diameter and ¾-inch long
9327L12	−58 to 158°F (−50 to 70°C)	1°	±1°C	Bottle (patented)

Traceable® Digital-Bottle™ Refrigerator/Freezer Thermometer

Sealed unit can be placed inside a refrigerator

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

Thomas No.	Range	Resolution	Accuracy	Probe
1221Z93	−22.0 to 122.0°F (−30.0 to 50.0°C)	0.1°	±1.0°C between −20.0 to 50°C	Bottle (patented)
1221Z94	−22.0 to 122.0°F (−30.0 to 50.0°C)	0.1°	±0.4°C at tested points, otherwise ±1°C	Bottle (patented)
1221Z95	−22.0 to 122.0°F (−30.0 to 50.0°C)	0.1°	±1.0°C between −20.0 to 50°C	Glass-bead filled bottle
1221Z96	−22.0 to 122.0°F (−30.0 to 50.0°C)	0.1°	±0.4°C at tested points, otherwise ±1°C	Glass-bead filled bottle

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Traceable® Refrigerator/Freezer Plus™ Thermometer

Temperature-buffered bottle insulates sensor from rapid temperature 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, 10 foot cable, Traceable® Certificate

NEW

1189Q90

Thomas No.	Range	Resolution	Accuracy	Probe
1189Q90	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.5°C	1 bottle (patented)
1189Q91	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.5°C	2 bottles (patented)
1189Q92	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.5°C	1 Bullet™
1189Q93	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.5°C	2 Bullets™
1189Q94	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.5°C	1 bottle & 1 Bullet™

1189Q91   1189Q92   1189Q93   1189Q94

Traceable® Wireless Radio-Signal Refrigerator Thermometer

Captures temperature data with high-efficiency wireless technology

● Unit wirelessly reads refrigerator temperatures from 100 feet away, place remote module
  inside a 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 three remote sensors are sent to main unit via radio signal-433 MHz
  penetrates refrigerators and walls

● Supplied: batteries, one main unit, one remote unit, flip-open stand, wall mount, Velcro®, Traceable® Certificate

NEW

1208T92

Thomas No.	Range	Resolution	Accuracy	Probe
1208T92	22.0 to 158.0°F (−30.0 to 70.0°C)	0.1°	±1.0°C	bottle (patented)
1208T93	22.0 to 158.0°F (−30.0 to 70.0°C)	0.1°	±1.0°C	Accessory Bottle Remote module (set to channel 1, 2, or 3)

1208T93

Traceable® Platinum High-Accuracy Freezer Thermometer

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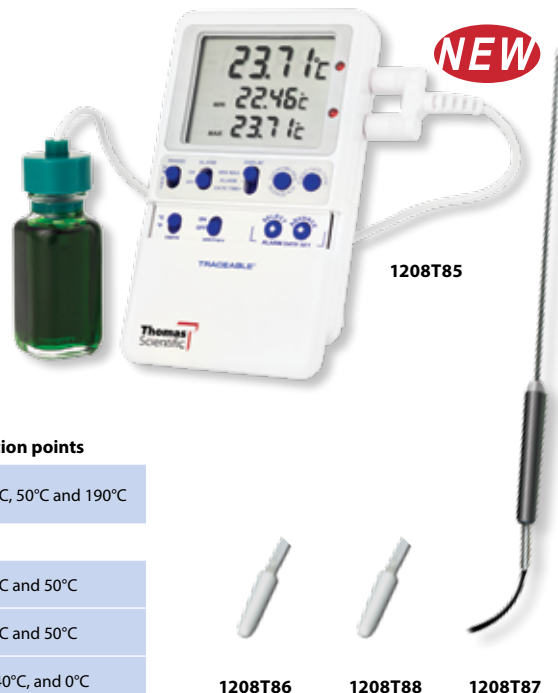and previous 7-days (for each day); or previous 31 days (for each day)**

● Triple display shows current temperature in °F or °C, as well as MIN/MAX temperatures

● Time/date stamp key shows exact time and date for all minimum and maximum readings

● Visual LED flashes and audible alarm sounds continuously even if temperature returns to
  non-alarm range

● Stainless-steel probe holder ideal for mounting probe anywhere in lab

● 1208T87 and 1208T88 are ideal for ultra-low freezer applications

● 1208T85 and 1208T86 are ideal for refrigerator/freezer applications

● Supplied: platinum probe, stand, wall mount, stainless-steel probe holder, batteries,
  Traceable® Certificate

NEW

1208T85

Platinum RTD stainless-steel probe

Thomas No.	Range	Resolution	Accuracy	Probe	Calibration points
1208T87	−148.00 to 199.99°F (−100.00 to 199.99°C)	0.01°	±0.1°C	Handle: 0.13" dia. x 6.3" stem, 9" overall	−80°C, 0°C, 50°C and 190°C
Refrigerator/Freezer					
1208T85	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.1°C	Bottle (patented)	−40°C, 0°C and 50°C
1208T86	−58.00 to 158.00°F (−50.00 to 70.00°C)	0.01°	±0.1°C	0.187" dia. x ¾" long	−40°C, 0°C and 50°C
1208T88	−148.00 to 158.00°F (−100.00 to 70.00°C)	0.01°	±0.1°C	0.187" dia. x ¾" long	−80°C, −40°C, and 0°C

1208T86   1208T88   1208T87
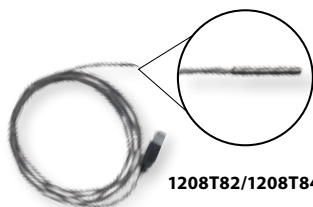
Traceable® Platinum Ultra-Accurate Digital Thermometer

Most accurate thermometer available with 0.0001° resolution

- High-precision unit is designed for years of reliable service even in harshest environments
- Computer output data captures in real time
- Decimal-placement key changes display to show one, two, three or four significant numbers 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
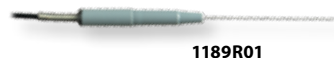- Supplied: battery, platinum probe, cable, computer output, plastic carrying case, Traceable® Certificate

Thomas No.	Unit Range	Probe Range	Resolution	Accuracy	Platinum RTD Stainless-steel Probe
1208T81	−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	7" stem, 0.13" diameter, 6' cable
1208T82		−100.00 to -200.00°C			1" stem, ¼" diameter, 10' PTFE cable

Accessories	
1208T83	Replacement Platinum RTD stainless-steel Probe
1208T84	Replacement Platinum RTD stainless-steel Bullet™ Probe
1189R00	Data Acquisition System Software
9337U35	Universal AC Adaptor

1208T81/1208T83

1208T82/1208T84

Traceable® Digital Thermometer

The laboratory standard

- Triple purpose stainless-steel probe for liquids, air/gas, and semisolids
- 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

Thomas No.	Range	Resolution	Accuracy	Stainless-steel Probe
9337U17	−58.000 to 302.000°F (−50.000 to 150.000°C)	0.0001°	±0.05°C between 0.0 to 100°C	6" stem, 0.3" dia. x 9"; cable: 66"

Accessories				
1190X64	Replacement Probe: −50.000 to 150.000°C	—	±0.05°C between 0.0 to 100°C	6" stem, 0.3" dia. x 9"; cable: 66"
1189R01	Micro Probe: −50.000 to 150.000°C	—	±0.2°C	7 cm stem, 0.1cm dia. x 14cm; 152 cm cable
1189R00	Data Acquisition System Software			
9337U35	Universal AC Adaptor			

9337U17/1190X64

1189R01

Traceable® Total-Range Thermometer

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

- Unit can recall MIN/MAX temperature readings captured during any time; updates display twice a second
- HI/LO Alarm: indicates when temperature rises above or falls below high/low set points, 1° increments; °F/°C switchable
- Timer feature displays duration of temperature conditions and time tests; capacity: 23 hrs 59 mins to 1 min; resolution: 1 sec
- 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, 4-foot Type-K beaded probe, batteries, Traceable® Certificate,

Thomas No.	Meter Range	Resolution	Accuracy
1235C59	−328 to 2498°F (−200 to 1370°C)	0.1° and 1°	±1°C between −50°C to 740°C, otherwise ±2°C

Traceable® Dishwasher/Metal Thermometer

Reports MIN/MAX temperatures achieved during dishwashing cycle

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

| Thomas No.	Range	Resolution	Accuracy	Feature
1218M97	−58.0 to 302.0°F (−50.0 to 150.0°C)	0.1°	±1°C between −20 to 150°C	stainless-steel probe
1218M96	−58.0 to 302.0°F (−50.0 to 150.0°C)	0.1°	±1°C between −20 to 150°C	dishwasher clip

NEW

1218M96

1218M97

Traceable® Lollipop™ Shock/Water-resistant Thermometer

Featherweight, wide-range lab partner covers 99% of routine 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, probe cover with pocket clip, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy
1235D23	−58.0 to 572.0°F (−50.0 to 300.0°C)	0.1° from −20 to 200°C; or 1°C elsewhere	±1°C
1235D30	−58.0 to 572.0°F (−50.0 to 300.0°C)	0.1° from −20 to 200°C; or 1°C elsewhere	±0.4°C at tested points, otherwise ±1°C
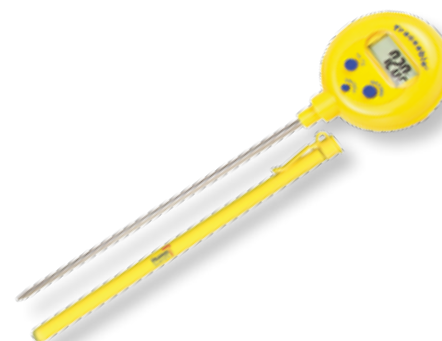
Traceable® Infrared Thermometer Gun

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
- DATA HOLD key freezes display and gives time to accurately record readings
- Emissivity is 0.95 fixed
- Unit can take measurements in °C and °F and includes auto-off feature
- Supplied: batteries, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy	Field of view
1235D35	−76.0 to 932.0°F (−60.0 to 500.0°C)	0.1°	±2% of reading or ±2°C	11:1

Traceable® Infrared Dual Lasers Thermometer with Type-K Probe

Dual lasers indicate the outer diameter of the surface area being measured

- Adjustable emissivity may be set from 0.1 to 1.00 in increments of 0.01
- Min/Max, average, current temperature along with: emissivity value, maximum memory, minimum memory, differential, average (time weighted), high temperature alarm, low temperature alarm, and probe temperature
- Supplied: Type-K beaded sensor, two batteries, Traceable® Certificate
- Size: 7 x 3¾ x 2 inches, weight: 9 ounces

Thomas No.	Range	Resolution	Accuracy	Field of view
1222W11	Infrared: −76.0 to 1022.0°F and −60.0 to 550.0°C	0.1°	±2% or 2°C + 2%	12:1
	Type-K: −83.0 to 2552.0°F and −64.0 to 1400.0°C			

Traceable® to NIST for Accuracy

An individually-numbered Traceable® Certificate is provided which assures accuracy from an ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

NEW

Traceable® Digital Humidity/Temperature/Dew Point Meter

Convenient triple memories recall MIN/MAX readouts for relative humidity, 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

Thomas No.	Range	Resolution	Accuracy	Dew Point
1204N56	Humidity: 1.0 to 99.0% RH	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® Digital Humidity/Temperature Meter

Continuously and simultaneously displays relative humidity and temperature with dual-recall memories

- Ideal for routine measurements, monitoring round-the-clock, 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
- Fulfills CLIA requirements, °F/°C switchable
- Supplied: wall mount, bench, stand, batteries, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy	Features
1235C81	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	

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 red LED flashes until readings return to non-alarm conditions
- Supplied: stand, batteries, wall-mount, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy
1235C97	Humidity: 1.0 to 99.0% RH	0.1%	±4% between 20 to 80% RH
	Temperature: −40.0 to 158°F (−40.0 to 70.0°C)	0.1° below 100°	±1°C

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

Thomas No.	Range	Resolution	Accuracy	Dew Point
1208T91	Humidity: 0.0 to 90.0% RH	0.1%	±5% RH at 25°C between 20 to 85% RH; ±7% RH elsewhere	−20.0 to 50.0°C with 0.1° resolution
	Temperature: 0.0 to 50.0°C	0.1°	±1°C	

Traceable® Radio-Signal Remote Humidity/Thermometer

Monitors humidity and temperature up to 100 feet away

● Unit feature high/low alarms, °F/°C switchable—transmitted every 30 seconds

● Additional Traceable Humidity/Thermometer Remote Sensor Module (Cat No. 1235D32); may be set to channel 1, 2, or 3; total of three modules may be used with main unit 1235D31

● Supplied: battery, flip-open stand, wall brackets, one remote sensor module Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy
1235D31	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			
1235D32	Additional Traceable® Humidity/Thermometer Remote Sensor Module		

1235D31

1235D32

Traceable® Memory Hygrometer/Thermometer

Maintain accuracy with do-it-yourself calibration

● Microprocessor-based design provides unparalleled accuracy

● 3 foot cable allows user to retrieve readings from hard-to-reach areas

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

Thomas No.	Range	Resolution	Accuracy
1235D01	Humidity: 10 to 95% RH	0.1% RH	±2% mid-range, otherwise ±4%
	Temperature: –18 to 93°C	0.1°	±1°C between 0 to 40°C, otherwise ±2°C
1235D33	Humidity: 10 to 95% RH	0.1% RH	±2.0%
	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			
1222W28	Data Acquisition System Software		

1235D01

Traceable® Humidity/Temperature/Dew Point Meter

Resolution of 0.01% relative humidity—ideal for QC labs, ISO 9000 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

● 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

● Probe: 7-inch length x 0.4 inch diameter; cable: 72 inches

● Supplied: computer output, battery, Traceable® Certificate

6066T05

1235C76

Thomas No.	Range	Response time	Resolution	Accuracy	Probe
6066T05	Humidity: 5.00 to 95.00% RH	10 seconds	0.01% RH	±1.5% RH	Stainless-steel: 7-inch length x 0.4 inch diameter; cable: 72 inches
	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°	—	
1235C76	Humidity: 10.00 to 95.00% RH	30 seconds	0.01% RH	±1.5% RH	Epoxy: 7-inch length x 0.4 inch diameter; cable: 72 inches
	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					
6066T11	Universal AC Adaptor				

Traceable® Flashing LED Alert Big-Digit Alarm Timer

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

- Features: count up/down, flashing LED, adjustable volume
- Green light flashes every second after timing reaches 10 seconds; 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

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
1222W23	99 minutes, 59 seconds	1 second	0.01%	1

Traceable® Multi-Colored™ Timer

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

- 3-bright colorful supplied frames permit personalization of timer
- Unique memory returns channel to previously programmed setting at touch of a key
- Counts up during alarming indicating elapsed time since alarming, 12/24 hour clock
- Supplied: bench stand, magnetic back, battery, Traceable® Certificate

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
1229S19	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, time in/out, memories, alarm, clock, adjustable alarm duration/volume
- Perfect unit to dedicate to repetitive tests
- 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 turned off
- Supplied: battery, Traceable® Certificate

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
9371W13	99 hours, 59 minutes, 59 seconds	1 second	0.001%	3

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

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
9371T60	9 hours, 59 minutes, 59 seconds	1 second	0.001%	3

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Traceable® Vibrating Timer

Innovative countdown timer vibrates when time is up; quietly nudges you during a meeting or perfect for loud environments when hearing a buzzer is impossible

- Select either vibrating or an audible alarm with the flip of a switch
- Individually numbered keys make setting time fast and easy
- Countdown and alarms on single channel
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming indicating elapsed time since alarming
- Supplied: magnetic back, stand/spring-clip, Traceable® Certificate, battery, and opening for lanyard

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
1189R02	9 hours, 99 minutes, 99 seconds	1 second	0.01%	1

Traceable® Four-Channel Alarm Timer

The lab's most popular timer

- Features: count up/down, time in/out, memories, alarm, 12/24 hour clock
- Massive ¾" high display allows viewing from across the lab
- Remarkable memory returns display to previously programmed countdown time at the touch of a button
- Extra-loud, high decibel alarms for 1 minute or can be silenced manually
- Supplied: clip, stand, magnet, battery, Traceable® Certificate

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
9371W52	99 hours, 59 minutes, 59 seconds	1 second	0.01%	4

Traceable® Clip-It™ Timer

Perennial favorite multi-tasking timer attaches to any lab surface

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

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
9371R35	99 hours, 59 minutes, 59 seconds	1 second	0.005%	1

Traceable® Flashing LED Alert Big-Digit Dual Channel Alarm Timer

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

- Features: count up/down, flashing LED, adjustable volume
- Green light flashes every second after timing reaches 10 seconds; 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

Thomas No.	Timing Capacity	Resolution	Accuracy	Channels
1222W24	99 hours, 59 minutes, 59 seconds	1 second	0.01%	2

Traceable® to NIST for Accuracy

An individually-numbered Traceable® Certificate is provided which assures accuracy from an ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

NEW

Traceable® Digital Barometer

Digital Barometer is the perfect unit for plants, labs, and all other environments where there is a need to monitor conditions of environmental air parameters

- A four-line LCD continuously and simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend and time
- Altitude compensation: –100 to 2500 meters
- 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 the current and past 1/3/6/12 and 24-hour readings
- 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

Thomas No.	Function	Range	Resolution	Accuracy
1189R03	**Barometric pressure**	500 to 1030 mbar (14.77 to 30.41 inHg)	1 mbar (0.01 inHg)	±4 mbar (±0.12 inHg)
	Temperature	32 to 131°F (0 to 55°C)	0.1°	±0.4°C (±0.8°F)
	Humidity	0 to 95% RH	1%	±3% RH between 5 to 75%, otherwise ±5% RH

Accessories	
1189R04	Data Acquisition System Software

Traceable® Workstation Barometer with Clock

Ideal weather watcher and trend setter

- Ideal for recording ambient changes in lab, monitoring conditions affecting sample analysis, and assisting in prediction of weather changes
- Unit includes a barometer, thermometer, clock, altitude adjustment, and weather symbol forecasting symbols
- Adjustable altitude compensation from –900 to 3600 feet (–300 to 1200 meters)
- Barometric trend shows current reading, previous 1/3/6, and 12-hour readings in bar chart format
- Supplied: batteries, Traceable® Certificate

Thomas No.	Function	Range	Resolution	Accuracy
1204N55	**Barometric pressure**	800 to 1050 mbar (hPa) (23.62 to 31.01 inHg)	1 mbar (0.063 inHg)	±6 mb (890 to 1020 mb); otherwise ±10 mb
	Temperature	–22 to 158°F (–9 to 70°C)	0.5°	±1°C (32 to 104°F and 0 to 40°C) ±2°C elsewhere

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, clock and compass
- Supplied: batteries, lanyard, Traceable® Certificate

Thomas No.	Function	Range	Resolution	Accuracy
1235D03	**Barometric pressure**	300 to 1100 mbar (8.85 to 32.45 inHg)	1 mbar (0.01 inHg)	±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°	—

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Traceable® Digital Calipers

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

1235D64
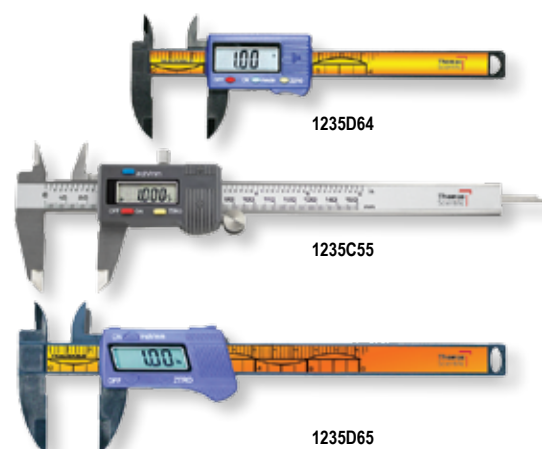
1235C55

1235D65

Thomas No.	1235C55	1235C56	1235D64	1235D65
Material	Stainless-steel		Carbon Fiber	
Measuring range	6"/150mm	8"/200mm	4"/100mm	6"/150mm
Resolution	0.0005 inch/0.01mm		0.01 inch/0.1mm	
Accuracy	±0.001 inch or ±0.03mm		±0.01 inch or ±0.2mm	
Depth Bar	Yes		No	
Thumb roller/Lock screw	Yes		No	
Non-metallic/non-conductive	No		Yes	
Dimensions	9 x 3 inches	11 x 3 inches	7 x 2½ inches	9½ x 3 inches
Weight	5 ounces	6 ounces	1 ounce	2 ounces

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 milliliters in 5 milliliter increments for weighing liquids with ease

- Supplied: batteries, detachable scoop, Traceable® Certificate

Thomas No.	Range	Resolution	Accuracy	Scoop capacity
1230N22	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 cm³/1.95 inch³)

Traceable® Jumbo-Digit Compact Radio-Controlled Atomic Clock

Jumbo sized 3¾ inch clock digits in a compact case

- Features: radio signal from NIST's Colorado atomic clock automatically sets correct date/time; calendar displays month/date and day

- Temperature range: 23 to 122°F (–5 to 50°C); resolution: 0.1°; accuracy: ±1°C

- Supplied: wall mount, bench stand, batteries, Traceable® Certificate

Thomas No.	Time feature	Resolution	Accuracy	Size/Weight
1204N54	12/24 hours	1 second	1/10,000 second	9 x 5 x 1¼ inches; 15 ounces

Traceable® to NIST for Accuracy

An individually-numbered Traceable® Certificate is provided which assures accuracy from an ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

NEW Traceable® pH\ORP Meter

Simply dip into solution and read pH or ORP

- Compact, water-resistant-IP67 unit with triple display shows pH or ORP measurement, temperature and time\date
- Ideal for wastewater, water quality and environmental applications
- Twenty-five point memory storage with time/date stamp
- Supplied: detachable probe, battery, probe cover, Traceable® Certificate, carrying case, Traceable® One-Shot™ pH Buffer Standards (CRM) 6-Pack Assortment

Thomas No.	Measurement	Range	Resolution	Accuracy
1189Q97	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) (switchable)	0.1º (1º when >100º)	±1ºC
Accessories				
1189Q98	Probe Extension Cable			
1189Q99	Replacement Probe			
C931T74	Traceable® One-Shot™ pH Buffer Standards (CRM) 6-Pack Assortment			

Traceable® pH Buffer Standards (CRM)

The most accurate pH Standards available anywhere

- 100% compatible with all makes and 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—aluminum foil, PET and low-density polyethylene bag—prevents contamination by permeable gases and provides 2-year shelf life
- Each 16 ounce bottle or six pack single-use 100ml container is supplied with an individual temperature compensation chart, traceability information, Traceable® Certificate

C931T68 **C931T69** **C931T70**

C931T71 **C931T72** **C931T73**

Traceable to NIST for accuracy

To assure accuracy an individually serial-numbered Traceable® Certificate is supplied from the 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 the highest achievable level of quality assurance, documentation, and accuracy. Certified Reference Materials are produced by an A2LA accredited ISO 34 certified reference material producer and by an A2LA accredited ISO/IEC 17025:2005 calibration laboratory. Additional accreditations include ISO 31 (certificate content), and ISO 35 (statistical analysis), plus ISO 9001 (certified quality manufacturer).

Traceable® pH Buffer Standards Certified Reference Material (CRM) (CLEAR)

Size	Accuracy	Thomas No.	pH Value
16 oz. bottle	25°C is ±0.010 pH	1218M88	4.005
		1218M89	7.000
		1218M90	7.416
		1218M91	10.012
100 ml One-Shot™ (6-pack)	25°C is ±0.010 pH	1218M92	4.005
		1218M93	7.000
		1218M94	7.416
		1218M95	10.012
One-Shot™ Assortment (6-pack)		C931T74	4.005−10.012

Traceable® pH Buffer Standards Certified Reference Material (CRM) (COLOR)

Size	Accuracy	Color	Thomas No.	pH Value
16 oz. bottle	25°C is ±0.010 pH	Red	C931T68	4.005
		Yellow	C931T69	7.000
		Blue	C931T70	10.012
100 ml One-Shot™ (6-pack)	25°C is ±0.010 pH	Red	C931T71	4.005
		Yellow	C931T72	7.000
		Blue	C931T73	10.012
One-Shot™ Assortment (6-pack)		Red/Yellow/Blue	C931T75	4.005−10.012

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Traceable® Portable Conductivity Meter

Quick answers, accurate results

- Automatic range changes; automatic and manual temperature compensation

- Four unique calibration points may be entered into memory utilizing solution standards; settings are stored even when unit is off

- Results are displayed into conductivity (microsiemens) and resistivity (megohms), dissolved solids (parts per million), concentration (user-defined units), salinity (oceanographic units) and temperature (F/C)

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

Thomas No.	Measurement	Range					Accuracy
1235C70	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		

Traceable® Conductivity Standards (CRM)

Highest accuracy available assuring reliable results

- Certified Reference Material

- 100% compatible with all conductivity meters

- Each bottle is labeled for calibrating conductivity, resistivity and dissolved solids

- Accuracy at 25°C is ±0.25 microsiemens for 1, 5, 10 microsiemen solution or ±0.25% for other solutions or the uncertainty noted on the certificate

- Supplied: 16 ounce container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate

Traceable® One-Shot™ Conductivity Standards (CRM)

Calibration within disposable container eliminates contamination

- Certified Reference Material

- 100% compatible with all conductivity meters

- Accuracy: certificate stated uncertainty, or ±0.25 microsiemen or ±0.25%

- Supplied: 6-pack 100 ml container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate

3239M50   **1235C71**

Traceable® Conductivity Standards, Certified Reference Material Accredited ISO Guide 34 (1750.02), ISO Guide 35, ISO Guide 31, ISO/IEC 17025:2005 (1750.01)					
Thomas No. 16 oz. bottle	Thomas No. Individually Tested 16 oz. bottle	Thomas No. 100 ml One-Shot™ (6-pack)	Microsiemens/Micromhos	Megohms	TDS/PPM
1235D68	1235D69	—	1	1	0.66
1235D11	1235D44	1235D12	5	0.2	3.3
1235C71	1235D39	3239M50	10	0.1	6.6
1235C72	1235D40	3239M55	100	0.01	66
1235C73	1235D41	3239M60	1000	0.001	666
1235C99	1235D45	3239M65	1413	0.00071	933
1235C74	1235D42	3239M70	10000	0.0001	6666
1235C75	1235D43	3239M75	100000	0.00001	66666
1222W07	1222W15	1222W17	150000	0.000006	100000
1222W08	1222W16	1222W18	200000	0.000005	133333
—	—	3239M80	Assortment (one each of the above, except Thomas no. 1235D12, 1222W17, 1222W18)		

Traceable® Certificate assures accurate lab tests

All Traceable® products are provided with a Traceable® Calibration Certificate from an ISO/IEC 17025:2005 (1750.01) calibration laboratory. Thermometer, timer, and humidity certificates are accredited by the American Association for Laboratory Accreditation (A2LA).

A2LA is widely recognized internationally through bilateral and multilateral agreements and through its participation in the International Laboratory Accreditation (ILAC) and Multilateral Recognition Arrangement (MRA). Through Control Company's A2LA Accreditation, Traceable® Certificates are internationally recognized by accreditation agencies, governments, industrial companies, biomedical companies, universities, and hospitals in over 75 countries throughout Europe, the Middle East, North America, South America, Asia, and Africa.

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

Accredited by A2LA (The American Association for Laboratory Accreditation) dedicated to "one test accepted everywhere, one accreditation accepted everywhere". A2LA is your assurance of internationally recognized technical laboratory competence. A2LA is recognized by ILAC and MRA.

Displays catalog number for complete product reference

Calls out the test equipment used for calibration

Reports environmental conditions at the time of measurement

Spells out test uncertainty ratio and confidence level

Lists specific conditions that may affect product accuracy

Supplied from an ISO 9001 quality facility certified by DNV

Conforms to universally recognized ISO/IEC 17025:2005 (1750.01) Standard, a requirement for any ISO 9000 quality facility

Establishes with reference numbers the unbroken chain of traceability to NIST

Displays serial number for total product identification

Spells out test uncertainty ratio and confidence level

Indicates Calibration Due Date

Specifies Calibration Date when the unit was tested

Signed by the Technical Manager

Provides measurement test results for your specific unit

Signed by the Quality Manager

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We Believe You Are Important
— How Can We Help?