

VWR® FOR TEMPERATURE MEASUREMENT AND RECORDING

Glass, metal and plastic
thermometers

Temperature indicating
strips

Digital thermometers and
thermo-hygrometers

Chart recorders,
data logging
thermometers and
data loggers

Air quality control,
barometers and
weather stations

VWR is now part of Avantor
Learn more on page 59

TEMPERATURE MEASUREMENT AND RECORDING

We hope that you will notice several things about the VWR range of products for temperature measurement and recording.

Choice – enough to cover almost every application packed into a series of models without being overwhelming

Performance – market-leading consistency and reliability backed up with warranties that run to many years

Value for money – well built products that last and don't cost a fortune to buy



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SYMBOLS

THESE SYMBOLS INDICATE
IMPORTANT PRODUCT
FEATURES:



RS232 interface



USB connection



Autoclavable



Hazard analysis and
critical control points



Warranty



Sustainable



IP67



ISO 9001

Environmentally friendly thermometers, double safe



These thermometers are easy to read quickly and accurately due to the high contrast black numbering against a yellow background. The numbers are printed larger than on a standard thermometer. Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

- Enviro safe liquid
- Non toxic, non hazardous, biodegradable liquid
- PFA coating to prevent any contamination of liquid or glass

Traceable to NIST.

Includes a multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Partial immersion						
-10...+110	±1,0	1,0	200	50	1	620-0796
-10...+150	±1,0; 1,5 (>100 °C)	1,0	200	50	1	620-0798
-20...+110	±1,0	1,0	305	76	1	620-0793
-20...+150	±1,0; 1,5 (>100 °C)	1,0	305	76	1	620-0795
Total immersion						
-10...+110	±1,0	1,0	200	Total	1	620-0797
-10...+150	±1,0; 1,5 (>100 °C)	1,0	200	Total	1	620-0799
-20...+110	±1,0	1,0	305	Total	1	620-0792
-20...+150	±1,0; 1,5 (>100 °C)	1,0	305	Total	1	620-0794



Environmentally friendly thermometers, easy read



These thermometers are easy to read quickly and accurately due to the high contrast black numbering against a yellow background. Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

- Enviro safe liquid
- Eliminates reading errors
- Non toxic, non hazardous, biodegradable liquid

Traceable NIST. Enviroklean™ certified by ChemTel (an independent laboratory).

Includes multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability, non roll fitting and individual serial number.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Partial immersion						
-10...+110	±1,0	1,0	200	50	1	620-0783
-10...+150	±1,0; ±1,5 (>100)	1,0	200	50	1	620-0781
-10...+260	±1,0; ±1,5 (>100); ±2,5 (>200); ±3 (>230)	1,0	355	76	1	620-0784
-20...+110	±1,0	1,0	305	76	1	620-0788
-20...+150	±1,0	1,0	305	76	1	620-0786
Total immersion models						
-10...+110	±0,5	1,0	200	Total	1	620-0782
-10...+225	±1,0; ±1,5 (>100); ±2,0 (>200)	1,0	355	Total	1	620-0785
-20...+110	±1,0	1,0	305	Total	1	620-0789
-20...+150	±1,0	1,0	305	Total	1	620-0787



Environmentally friendly thermometers, enviro safe

These earth friendly thermometers feature green, non-toxic, biodegradable, enviro safe liquid against lead-free, white back glass.

Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

- Meet government, education, and industry mandates to purchase "Green" products
- Individually serialized

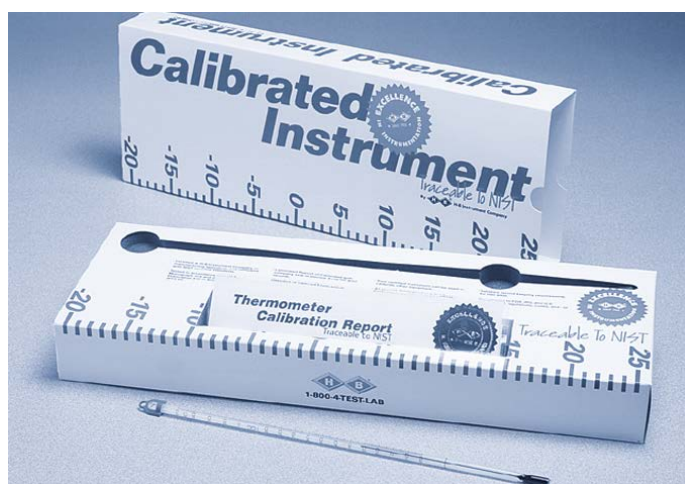
Traceable to NIST. EnviroKleen™ certified by ChemTel, an independent laboratory.

Includes a multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Partial immersion						
-10...+110	±1,0	1	200	50	1	620-0880
-10...+150	±1,0; ±1,5 (>100 °C)	1	200	50	1	620-0882
-20...+110	±1,0	1	305	76	1	620-0831
-20...+150	±1,0; ±1,5 (>100 °C)	1	305	76	1	620-0832
-10...+260	±1,5; ±2,0 (>100 °C); ±2,5 (>200 °C); ±3 (>230 °C)	1	355	76	1	620-0834
Total immersion						
-10...+110	±1,0	1	200	Total	1	620-0881
-10...+150	±1,0	1	200	Total	1	620-0883
-20...+110	±1,0	1	305	Total	1	620-0836
-20...+150	±1,0; ±1,5 (>100 °C)	1	305	Total	1	620-0835
-10...+225	±1,5; ±2,0 (>100 °C); ±2,5 (>200 °C)	1	355	Total	1	620-0833



Environmentally friendly thermometers, individually calibrated, easy read



Each easy to read thermometer includes an individualised thermometer calibration report stating corrections to one-tenth of the smallest division, unique report number and NIST standards used for the calibration. Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

- EnviroKleen™ certified
- Non toxic, biodegradable, enviro safe liquid, against lead-free, yellow back glass provides easy readability and fewer reading errors

Traceable to NIST, individually serialised.

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Calibrated at 0, 37, 56 °C	-10...+70	±0,5	0,5	297	76	1	620-0830
Calibrated at 0, 50, 100 °C	-20...+110	±1,0	1	297	76	1	620-0828
Calibrated at 0, 50, 100 °C	-20...+110	±1,0	1	305	Total	1	620-0829
Calibrated at 0, 60, 120 °C	-20...+150	±1,0	1	305	76	1	620-0935
Calibrated at 0, 60, 120 °C	-20...+150	±1,0	1	305	Total	1	620-0934
Calibrated at 1, 100, 200 °C	-10...+225	±1,0	1	355	Total	1	620-0936

Environmentally friendly thermometers, pocket, liquid-in-glass, easy read

Thermometers with enviro safe liquid come in a closed metal case which protects from breakage. Ideal for field studies, wastewater treatment and any 'on the go' applications.

- Easy to read, convenient and portable
- Non toxic, non hazardous and biodegradable
- Yellow back glass provides easy readability and fewer reading errors

Traceable to NIST and EnviroKleen™ certified.

Includes a multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability.



Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth	Pk	Cat. No.
-5...+50	±0,5	0,5	160	Total	1	620-0779
-10...+110	±1,0	1,0	160	Total	1	620-0780
-30...+50	±1,0	1,0	160	Total	1	620-0903

Frio temp precision thermometers



These mercury-free thermometers are individually calibrated and useful for verifying sample temperatures. They are designed for applications in freezers, refrigerators, incubators, ovens and blood banks.

- Provide accurate temperature readings without sample contamination
- Filled bottle (included) mimics the sample
- PFA coated thermometers contain glass and liquid in case of breakage, filled with organic liquid
- Permanently fused markings and lead-free glass
- Individual serial number

To use, simply screw thermometer with cap into bottle and attach to test sample.

Traceable to NIST.

Supplied with individual Thermometer Calibration Report stating corrections to one-tenth of the smallest division, unique report number and NIST standards used for the calibration.



Certification ISO/IEC 17025

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Filling	Pk	Cat. No.
For freezers, calibrated at -20; -10 °C	-25...-5	±0,2	0,1	210	Black spirit	1	620-0938
For refrigerators, calibrated at 0, 5 °C	-2...+10	±0,2	0,1	180	Black spirit	1	620-0939
For incubators, calibrated at 20; 25 °C	15...30	±0,2	0,1	180	Black spirit	1	620-0940
For incubators, calibrated at 30; 40 °C	25...45	±0,2	0,1	190	Black spirit	1	620-0941
For ovens, calibrated at 100; 110 °C	95...115	±0,4	0,1	200	Black spirit	1	620-0942



Frio temp precision verification thermometers

These thermometers are suitable for applications with freezers, refrigerators, incubators, ovens and blood banks. The thermometer is placed in a bottle filled with a liquid.

- Accurate temperature reading without sample contamination is achieved by using the filled bottle (included), which mimics the sample
- Thermometers contain organic liquid; features permanently fused markings and lead-free glass
- PFA coating safely contains glass and liquid in case of breakage
- Individual serial number

Insert the thermometer into the bottle and place near the samples for best results.

Traceable to NIST.

Supplied with a multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability plus VELCRO® and magnetic attachments.

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Pk	Cat. No.
For freezers	-25...-5	±0,2	0,1	210	1	620-0837
For refrigerators	-2...+10	±0,2	0,1	180	1	620-0838
For incubators	15...30	±0,2	0,1	180	1	620-0839
For incubators	25...45	±0,2	0,1	190	1	620-0840
For ovens	95...115	±0,4	0,1	200	1	620-0841

Precision thermometers

Durac Plus precision thermometers are made with permanently fused markings and fractional degrees to provide precision and ensure accuracy.

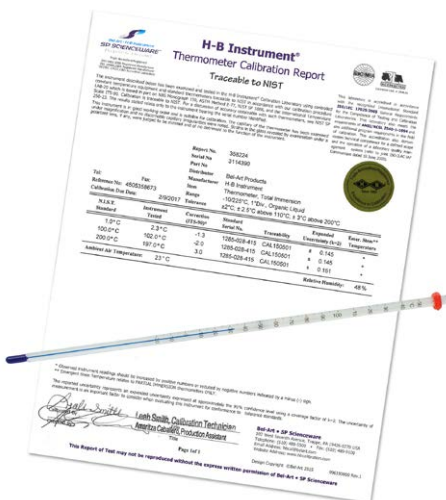
- Mercury-free, contain blue organic liquid against lead-free white back glass
- Individually serialised

Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical/medical industry, manufacturing, dairies, breweries and distilleries.

Traceable to NIST.

Includes multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
-1...+51	±1,0	0,1	460	76	1	620-0896
-1...+51	±0,6	0,1	460	Total	1	620-0806
-1...+101	±1,0	0,1	610	76	1	620-0897
-1...+101	±0,6	0,1	610	Total	1	620-0807
-1...+201	±1 °C; ±1,5 °C above 150	0,2	610	76	1	620-0805
-1...+201	±0,7 °C; ±1 °C above 100	0,2	610	Total	1	620-0808



Precision thermometers, liquid-in-glass

These liquid-in-glass thermometers feature blue organic liquid fill against lead-free white back glass. They are ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical/medical industry, manufacturing, dairies, breweries and distilleries

- Fused markings
- Individually calibrated and serialised
- Graduated with fractional degrees

Traceable to NIST.

Supplied with individual thermometer calibration report stating corrections to one-tenth of the smallest division, unique report number and NIST standards used for the calibration.

Certification ISO/IEC 17025

Description	Range (°C)	Accuracy	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Certified at -78; -20; 0; +4; +37 °C	-100...+50	±1,5 °C; ±3 °C (-35 °C)	1,0	305	76	1	620-0885
Certified at 0; 50; 100 °C	-1...+101	±0,6	0,1	610	Total	1	620-0937

Dry block/incubator liquid-in-glass thermometers

Contains red organic liquid against white back glass, except for 620-0891 which has yellow back glass.

- For use in all standard heating blocks and incubators
- PTFE coating keeps liquid and glass encapsulated in the event of breakage
- Individually serialised

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Filling	Pk	Cat. No.
Standard coating							
0...100	±1,0	1,0	225	35	Red spirit	1	620-0891
0...100	±1,0	1,0	225	35	Red spirit	1	620-0821
24...56	±1,0	0,5	230	76	Red spirit	1	620-0818
0...80	±1,0	0,5	250	100	Red spirit	1	620-0817
0...70	±1,0	1,0	325	150	Red spirit	1	620-0889
20...100	±1,0	1,0	305	76	Red spirit	1	620-0816
PTFE coating							
-15...+105	±1,0	1,0	150	150	Red spirit	1	620-0820
0...100	±1,0	1,0	225	35	Red spirit	1	620-0822
0...80	±0,5	0,5	225	100	Red spirit	1	620-0888
20...100	±1,0	1,0	305	76	Red spirit	1	620-0887
0...70	±1,0	1,0	325	150	Red spirit	1	620-0890



Frio temp precision thermometers



620-0800

These glass thermometers can be used to take readings in freezers, refrigerators, incubators, ovens and blood banks.

- Enviro safe non toxic and biodegradable liquid or red spirit liquid
- Accurate temperature reading without sample contamination
- Individual serial number
- Wide choice

Accurate temperature reading is achieved by using the filled bottle (included), which mimics the sample. Insert the thermometer into the bottle and place near the samples for best results. PFA coating safely contains glass and liquid in case of breakage.

Traceable to NIST.

Supplied with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability plus VELCRO® and magnetic attachments.

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Pk	Cat. No.
Enviro safe						
For freezers	-30...1	±0,5	0,5	135	1	620-0854
For refrigerators	-5...+15	±0,5	0,5	125	1	620-0902
For blood banks	-5...+20	±0,5	0,5	135	1	620-0848
For incubators	15...50	±0,5	0,5	135	1	620-0878
For incubators	15...50	±0,5	0,5	135	1	620-0800
For ovens	20...130	±1,0	1,0	145	1	620-0850
For ovens	50...200	±2 °C; ±4 °C above 130	2,0	145	1	620-0852
Red spirit						
For ultra-low freezers	-90...+25	±1 °C; ±2 °C from -1/-40 °C; ±2,5 °C below -40	1,0	145	1	620-0855
For freezers	-30...+1	±0,5	0,5	135	1	620-0843
For refrigerators	-5...+15	±0,5	0,5	125	1	620-0845
For blood banks	-5...+20	±0,5	0,5	135	1	620-0842
For incubators	15...50	±0,5	0,5	135	1	620-0856
For ovens	20...130	±1,0	1,0	145	1	620-0844
For ovens	50...220	±2,0	2,0; 3,0 (>130)	145	1	620-0886

Dry block/incubator thermometers



Designed for use in all standard heating and drying blocks, water baths, incubators. Contains blue organic liquid fill against lead-free white back glass.

- Partial immersion
- Individual serial numbers
- PTFE coating helps prevent liquid and glass contamination

Traceable to NIST

Supplied with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy indicating accuracy traceable to NIST.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Filling	Pk	Cat. No.
18...60	±0,5	0,5	122	35	Blue spirit	1	620-0814
50...110	±0,5	0,5	150	35	Blue spirit	1	620-0815

Dry block/incubator thermometers, enviro safe



Designed for use in all standard heating and drying blocks, water baths and incubators.

- Partial immersion
- Individual serial numbers
- PFA coating on 620-0791 helps prevent liquid and glass in the event of breakage
- Same accuracy as similar mercury thermometers, but without the hazards

Contains enviro safe non toxic, non hazardous, biodegradable green liquid against white back glass.

Traceable to NIST; hand inspected in triple -accredited/ -registered ISO/IEC 9001:2008, ISO/IEC 14001:2004, ISO/IEC 17025:2005 facility and A2LA Accredited Calibration Laboratory.

Supplied with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy indicating accuracy traceable to NIST.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Filling	Pk	Cat. No.
24...57	±0,5	0,5	175	35	Enviro safe	1	620-0790
24...57	±0,5	0,5	175	35	Enviro safe	1	620-0791

designed for every day use



VWR® LAB BRIC-A-BRAC

- Never know where to put anything?
- Need extra storage?
- New batteries?

All the things you didn't know you needed until you couldn't find them or didn't have them.

Make lab life easier with VWR.

For your copy visit vwr.com

General purpose oven thermometers



These oven thermometers contain red organic liquid against white back glass.

- Partial immersion thermometers feature a round glass bulge in the body to hold them in place
- PTFE coating helps prevent liquid and glass contamination if the thermometer breaks
- Individually serialised

Range (°C)	Accuracy	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
Standard coating						
0...200	±2,0; ±2,5 (>100 °C)	1,0	280	76	1	620-0823
20...130	±2,0	2,0	135	Total	1	620-0894
PTFE coating						
0...200	±2,0; ±2,5 (>100 °C)	1,0	280	76	1	620-0893
0...200	±2,0; ±2,5 (>100 °C)	1,0	405	125	1	620-0825
20...130	±2,0	2,0	135	Total	1	620-0826

Ultra-low liquid-in-glass thermometers



These thermometers meet all requirements for physical dimensions and accuracy.

- Meniscus visible in the appropriate low temperature application
- Possible magnification for more readability
- White background, fused markings
- Designed for ultra-low temperature use
- Feature mercury-free liquid against lead-free, white back glass

Traceable to NIST. Compliant with ANSI/SAMA Z236.1-1983.

Supplied with a multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and traceability.

Individually protected in Safety-Pak™.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Filling	Pk	Cat. No.
-200...+30	±2,0	2,0	350	Total	Organic liquid	1	620-0857
-100...+50	±1,5 °C; ±3 °C (<-35 °C)	1,0	300	Total	Organic liquid	1	620-0858
-100...+50	±2 °C; ±3 °C (< 50 °C)	1,0	300	76	Organic liquid	1	620-0860
-50...+50	±1,5 °C; ±3 °C (< 35 °C)	1,0	300	76	Organic liquid	1	620-1927
-50...+50	±2,0	1,0	300	Total	Organic liquid	1	620-1928



Dial thermometers

These thermometers are adapted for applications in heating, ventilation, air conditioning, food and beverage processing and storage, pharmaceutical and educational use.

- Quick and accurate
- Easy to read instrument
- Suitable alternative to mercury thermometers

Immersion depth: Minimum immersion is 50 mm (2») in liquids or 100 mm (4») in gases

Stainless steel probe

125 mm stem thermometers have a protective probe cover with pocket clip. 200 mm stem thermometers have a beaker clip.

Range (°C)	Accuracy (%)	Division (°C)	Length (mm)	Pk	Cat. No.
Ø: 25 mm					
-10...+110	±1,0	1,0	125	1	620-0866
0...150	±1,0	2,0	125	1	620-0867
0...250	±1,0	5,0	125	1	620-0868
Ø: 44 mm					
-10...+110	±1,0	1,0	200	1	620-0873
-50...+100	±1,0	2,0	200	1	620-0871
0...50	±1,0	1,0	200	1	620-0870
0...100	±1,0	1,0	200	1	620-0872
0...150	±1,0	2,0	200	1	620-0874
0...250	±1,0	2,0	200	1	620-0875



Maximum/minimum thermometer

This thermometer in plastic features colour coded dual scales on a white background and reset knob for fast, multiple readings. It can be used for any indoor/outdoor function.

- Three distinct arrows
- Free-standing or wall mountable
- Maximum/minimum feature for various applications

WxH: 230x200 mm

Range (°C)	Accuracy (°C)	Division (°C)	Pk	Cat. No.
-30...+60	±1,0	2,0	1	620-0920



Temperature indicating strips

These temperature indicating strips are designed for rapid measurements where conventional thermometers are impractical. They are suitable for use with equipment like heating chambers and products which are sensitive at high temperatures.

- Fast response within 1 second
- Self-adhesive and irreversible - eight points
- Storage at maximum 25 °C for up to 2 years

Range (°C)	Accuracy (°C)	Pk	Cat. No.
37...65	±1,0	10	620-9102
71...110	±1,0	10	620-9103
116...154	±1,0	10	620-9104
160...199	±1,0	10	620-9105
204...260	±1,0	10	620-9106

Micro infrared thermometer, Traceable®

This thermometer captures temperature readings of any liquid, solid and semi-solid surfaces in less than a second. These non invasive, 'no touch' temperature measurements are suitable for food preparation, life sciences, cleanrooms and other fast inspections.

- 'HOLD' function
- Emissivity of 0,95
- Field of view of 1:1
- Maximum only/minimum only readings
- 'Continuously on' mode and low battery alert

Supplied with Traceable® certificate of calibration, soft-touch keys, flip-open stand, keychain and battery (lithium coin battery CR2032: 139-2267) for 40 hours of use.

Range (°C)	Accuracy	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-22...+110	±1,0 (15...40); ±1,5 °C	0,1	63,5x38x13	28,3	1	620-2102



Infrared thermometer with alarm

This thermometer combines accuracy with ease of use. It is useful for many applications within pharmaceutical industries, automatic control engineering, in high schools and universities, food storage and catering, research, chemistry, automation and biology.

- Display of maximum/minimum temperatures and high/low alarm
- Adjustable emissivity from 0,05 (5E) to 1 (100E)
- 'HOLD' function

Infrared thermometers provide non contact temperature measurement of any liquid, solid, or semi-solid. It has as a 6:1 DTS, max./min. memory, high/low alert, error message indicators, lock mode for continuous temperature monitoring, laser sighting, and backlit readout.

CE marked and RoHS compliant

Supplied with CR2032 battery incl. charge indicator, certificate of calibration, individual serial number and strap in a carrying case.

Description	Range (°C)	Accuracy	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Calibrated at 100, 200 °C	-33...+220	±2,0% (±2,0 °C)	0,1	60x23x104	63	1	620-1260



Infrared thermometer, Traceable®

This infrared thermometer takes instant temperature readings of any surface. It can be used for food, pharmaceuticals, electronics, safety inspection and any liquids or solids. The unique design allows one handed 'point and shoot' readings. Laser-sighting beam enables precision aiming at target surface.

- Field of view is 11:1
- Backlighting at the touch of a button
- Fixed emissivity of 0,95
- Data 'HOLD' function, automatic maximum recording, switchable °C/°F function, low battery indicator
- Automatic Off function (after 15 seconds) can be deactivated

Complies with ISO/IEC 17025

Supplied with two AAA batteries and Traceable® certificate of calibration.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-60...+500	2,0% or ±2,0	0,1	178x38x76,2	170	1	620-2100



Infrared and core thermometer, Traceable®



This easy to use, infrared, K-type thermometer allows the unit to take readings in less than 1 second.

- Field of view is 12:1
- Emissivity adjustable from 0,1 to 1,0 in 0,01 °C increments
- Maximum/minimum feature allows viewing of highest and lowest readings at any time
- Memory recalls captured temperatures, displays the average of all readings and the difference between the two
- Audible, user-settable, high and low alarms signal 'out of range' conditions, 'HOLD' function to freeze the display
- Cable length: 3 metres

Supplied with three-point Traceable® certificate of calibration (at 35; 50 and 150 °C (IR)), K-type probe (−40...+250 °C) and batteries with low level indicator.

Range (°C)	Accuracy (%)	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
(IR) −60...+500; (TC) −64...+1400	±1,0 °C or 2,0	0,1	178x70x38	1	620-2203

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Ultra-accurate K-type probes				
Immersion probe with 135 mm plastic handle, 1 m cable and DIN-SMP connection	−65...+550	1,5x130	1	620-1938
Penetration probe with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	−65...+1000	3x130	1	620-1940
Universal flexible probe for quick response in air, liquids, very small surfaces, twisted pair of PTFE-insulated thermowell wires and DIN-SMP connection	−65...+300	1x1000	1	620-1941
Air/gas probe for deep frozen goods with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	−65...+600	6x130	1	620-1942

Infrared thermometer, Traceable®



This HACCP - Hazard Analysis and Critical Control Point - thermometer is designed for food laboratories, food processing, food preparation and brewing. The waterproof construction allows it to be used in labs, plants and wash-down areas.

Infrared* or foldable stainless steel probe** (152x12 mm)

Supplied with serial numbered NIST Traceable® certificate of calibration.



Range	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
−55...+300 (−55...+250 °C*/−55...+330 °C**)	±0,6; ±0,5* (5...65)	0,2 (−10...+200); 1,0	165x38x2,5	100	1	620-1806



Infrared thermometer gun with laser beam, Traceable®



This lightweight unit takes readings in liquids and solids in one second. The laser beam enables perfect temperature target sighting in petroleum, electronics, plants and outdoors. The thermometer also provides average and differential readings.

- Field of view is 8:1
- Adjustable emissivity from 0,3 to 1,0
- Backlight, data HOLD function, low battery indicator, °C/°F button
- Maximum/minimum memory that can store up to nine values
- High/low audible alarm

Complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with wrist strap, soft-sided carrying case, 9 volt battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (%)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-20...+420	±2,0	1,0	152,4x32x51	170	1	620-2101

Infrared thermometer, Traceable®

This infrared thermometer provides the widest possible range for accurately measuring different surface temperatures.

- Field of view is 7:1
- Adjustable emissivity from 0,2 to 1,0 in increments of 0,01
- Data 'HOLD' function, maximum/minimum memory and one second sampling

Infrared sensor and K-type beaded probe.

Supplied with Traceable® certificate of calibration, K-type beaded probe, carrying case and nine volt battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
(IR) -20...+400; (K) -100...+1300	(IR) ±3,0% or ±3,0 °C; (K) ±1,0% +1,0	0,1	197x59x121	273	1	620-2096



Infrared thermometer, Traceable®



This dual laser (IR) digital thermometer with (K) probe is suitable for non invasive measurements in food, life sciences, pharmaceuticals, petroleum products, cleanrooms, electronics and on-site applications.

- Field of view is 12:1 (the spot size is 50 mm at 0,60 m)
- Readings on any type of surface: Solids, semi-solids and liquids
- Maximum/minimum features for viewing at any time, display of the average of all readings and of the difference between two readings
- Audible, user-settable, high and low alarms signal out of range conditions
- User-adjustable emissivity from 0,1 to 1,00 in increments of 0,01

Supplied with Traceable® certificate of calibration provided by NIST from an ISO 17025 laboratory accredited by A2LA, K-type probe and two AAA batteries.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
(IR) -60...+550; (K) -64...+1400	±2,0% or 2,0	0,1	178x95x50	255	1	620-1924



Probeless electronic thermometers

Designed for use in high moisture environments, this digital thermometer provides a good alternative to mercury models. A reset button allows for a new monitoring period.

- Maximum/minimum values displayed
- Keyhole for mounting
- Easy to read
- Water resistant IP 65

Window thermometer Features easy installation with no wiring and is useful for cleanroom applications, fume hoods, glove boxes, greenhouses and any glass environment. Includes two AAA batteries.

Indoor/outdoor thermometer Displays the current temperature and registers the maximum and minimum temperatures attained since the last reset. Includes LR44 battery.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
Window thermometer, WxH: 44x127 mm	-10...+50	±1,0	0,1	1	620-1723
Indoor/Outdoor thermometer, WxH: 100x215 mm	-40...+50	±1,0	0,1	1	620-1722



Bi-metallic dial thermometer, refrigerator/freezer

This thermometer with analogue dial indicates freezer, refrigerator, or spoilage temperatures.

- Stainless steel model stands sturdy on rack shelves
- Dual scale (°F/°C)
- Red arrow for easier reading
- Round, black modern design

Range (°C)	Accuracy (°C)	Ø (mm)	Pk	Cat. No.
-30...+30	1	76	1	620-2146

Maximum registering, autoclave bi-metallic thermometers



This durable thermometer, with maximum registering pointer (red), is moved up by the temperature measuring pointer (black) to indicate the highest temperature. The threaded connection (1/4" NPT) screws into processes can be used to mount thermometer on included stand.

- Manual reset
- Waterproof and pressurised
- Withstands pressure, high temperatures and rust
- Calibration point for item 620-2342: 121 °C
- Dial size: 81 mm

Stainless steel 304 with glass lens

Supplied with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy and instructions, or individual thermometer calibration report.

Description	Range (°C)	Accuracy	Division (°C)	Length (mm)	Ø (mm)	Pk	Cat. No.
With calibration report (calibration point: 121 °C)	0...150	±2 °C (5 ° F)	2,0	81	50	1	620-2342



Dishwasher thermometer, Traceable®



This thermometer ensures proper cleaning by providing proof that the temperature regulation of achieving 82 °C is met during dishwashing. Designed for applications in wet labs, wash-down areas and outdoors. Used in food, pharmaceutical, cleanrooms, and industrial laboratories. Waterproof metal with internal stainless steel sensor.

- Maximum/minimum values during the dishwashing cycle

Traceability to standards provided by NIST, complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with clip for attaching to dishwasher rack, battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Ø (mm)	Weight (g)	Pk	Cat. No.
-50...+150	±1,0	0,1	44,5	60	1	620-9100



Solar powered thermometers, Traceable®



This thermometer is always on and runs for years powered by light in laboratories or plant. It can monitor ambient temperature or temperatures of liquids, air/gas and semi-solids. The external probe is designed for food inspection, petroleum tests, quality control, biomedical studies, R&D analysis and wastewater tests.

- Large LCD easily readable from across the room
- Can perform even when under water
- Display updates every 10 seconds

Internal sensor/external probe sensor (Ø: 4,7 mm) with 1 metre cable

Supplied with solar panels, back-up battery for dim areas, VELCRO® to attach to any surface and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±1,0	0,1	External probe sensor with cable	70x19x70	56,7	1	620-2041



Digital refrigerator thermometers, Traceable®



This thermometer is designed for monitoring temperatures in storage rooms, labs, office and fume hoods. It includes attachment devices for flexible positioning.

- Easy to read LCD
- Switch from °F to °C
- Updates every 30 seconds

Traceability provided from ISO/IEC 17025 and standards by NIST.

Supplied with suction cup, VELCRO® fastener, silver-oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
0...45	±1,0 (5...25); ±1,5	0,1	25x10x64	14,2	1	620-2302



Calibrated electronic thermometers with stainless steel stem

These digital stem thermometers are suitable for field studies, wet lab applications, wash-down areas, food testing and tanks.

- Read temperatures in liquids, semi-solids and gases
- 120 to 197 mm probes easily reach into cuvettes, test tubes, flasks, beakers and more
- Blunt tip probe is ideal for veterinary practices, farm and ranch
- Surface probe is ideal for cooking, laboratories and hot plates (does not include probe cover)
- Features include minimum/maximum temperature readings, alarms, data hold, water resistant models and more
- The equipment calibration is traceable to NIST

Calibration point: 0; 100 °C.

These electronic-stem thermometers are not suitable for solids such as frozen items.

Individually serialised, CE marked, ISO/IEC 17025:2005

Includes a accredited calibration documentation and multi-language instructions (English, French, German, Italian, Portuguese and Spanish) and LR44 battery.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
No IP rating						
With auto off, 171×28 mm (L×W)	−50...+200	±1,5; ±0,5 (−10...+100)	0,1	Stainless steel (127 mm)	1	620-0909
With blunt tip and auto off, 190×17 mm (L×W)	−50...+200	±2,0; ±1,0 (20...120)	0,1	Stainless steel (120 mm)	1	620-2134
With auto off, 190×20 mm (L×W)	−50...+200	±2,0; ±1,0 (20...120)	0,1	Stainless steel (120 mm)	1	620-2200
With flat surface probe and auto off, 190×17 mm (L×W)	−50...+200	±2,0; ±1,0 (20...120)	0,1	Stainless steel (120 mm)	1	620-2202
Water resistant IP 65						
With max/min and data hold, 210×19 mm (L×W)	−50...+200	±0,5 (−20...+70); ±1,0 (−50...−20; 70...150); ±2,0 > +150	0,1	Stainless steel (127 mm)	1	620-0910
With extra long probe, data hold and auto off, 267×19 mm (L×W)	−50...+300	±2,0 (−50...−20; 120...250); ±1,0 (−20...+120); ±3,0 (200...300)	0,1	Stainless steel (197 mm)	1	620-0912
With extra long probe, max/min and auto shut off, 273×23 mm (L×W)	−50...+300	±6; ±0,5 (−20...+70); ±1,0 (70...120); ±2,0 (−50...−20; 120...150); ±4 150...200)	0,1	Stainless steel (197 mm)	1	620-0914
With alarm and timer, 197×28 mm (L×W)	−50...+300	±3; ±1,0 (−20...+120); ±2,0 (−50...−20; 120...200)	1	Stainless steel (127 mm)	1	620-1719
Waterproof IP 68						
Field calibratable, with maximum temperature indicator and data hold, 178×44 mm (L×W)	−40...+232	±2; ±0,5 (54...82); ±4 (>176)	0,1	Stainless steel (127 mm)	1	620-2133

Waterproof thermometers, Traceable®

This waterproof and shockproof thermometer is a safe replacement for any hazardous mercury instrument. The probe is resistant to most chemicals.

- Waterproof construction for wet labs, wash-down areas and all field applications
- Memory recalls maximum/minimum temperatures
- Reading updates every second

Stainless steel probe (L×Ø: 203×3,5 mm)

Supplied with probe with cover, silver-oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	W×D×H (mm)	Weight (g)	Pk	Cat. No.
−50...+300	±1,0	0,1 (−20...+200); 1,0 (−50...+300)	260,3×12,7×44,5	25	1	620-2092
−50...+300	±0,4 (0; 100); ±1,0	0,1 (−20...+200); 1,0 (−50...+300)	260,3×12,7×44,5	25	1	620-2099





Pocket thermometer, Traceable®



Safe thermometer for soil, cuvettes, test tubes, food products, incubators, petroleum hydrocarbons and virtually all lab tests. Readings are updated every second.

- Unique, flat profile design, lightweight and built-in pocket clip to carry in a shirt pocket
- 'HOLD' button freezes a reading for later observation. Switch from °F to °C
- Memory function recalls maximum/minimum readings over any time period

Stainless steel probe (ØxL: 3,5x89 mm)

Traceability to standards provided by NIST. Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with protective case, silver-oxide battery, probe and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Length (mm)	Weight (g)	Pk	Cat. No.
-50...+300	±1,5	0,1 (-20...+200); 1,0	178	28,5	1	620-2025

Digital thermometers, Traceable® Ultra



These thermometers fit into flasks, cuvettes, test tubes and beakers for temperature readings in food, gases, samples, reagents, water baths, ovens, incubators and semi-solids. The long stem allows user to make measurements while stirring solutions in deep vessels.

Stainless steel probe (Ø: 3,5 mm).

- Probe resistant to most chemicals
- Readings in °C updated every second
- Safe: Almost unbreakable plastic and stainless steel

Comply with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with one year battery, Traceable® certificate of calibration and protective sleeve.



620-2079



620-2077

Range (°C)	Accuracy (°C)	Resolution (°C)	Length (mm)	Probe	Weight (g)	Pk	Cat. No.
-50...+300	±0,4	0,1 (-20...+200); 1,0	178/260	89 mm	28	1	620-2077
-50...+150	±0,2	0,1 (-20...+200); 1,0	178/260	203 mm	28	1	620-2079
-50...+300	±1,0	0,1 (-20...+200); 1,0	178/260	289 mm	28	1	620-2080
-50...+300	±0,5	0,1 (-20...+200); 1,0	178/260	289 mm	28	1	620-2081



620-2024

Digital dial thermometers, Traceable®



These thermometers are safer than mercury thermometers. The smooth probe (620-2024) is suitable for viscous solutions or semi-solids, thanks to its piercing tip.

- Readings updated every second
- Large, bright LCD for easy reading
- 620-2082 with metal disc (Ø: 12,7 mm) for surface measurements

Stainless steel probe (LxØ: 133x3,8 mm)

Supplied with silver-oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Length (mm)	Ø (mm)	Probe	Weight (g)	Pk	Cat. No.
-50...+150	±1,0	0,1 (-20...+150); 1,0	165	29	For surfaces	28	1	620-2082
-50...+150	±1,0	0,1 (-20...+150); 1,0	165	29	For viscous solutions	28	1	620-2024
-50...+150	±0,3	0,1 (-20...+150); 1,0	165	29	For viscous solutions	28	1	620-2095



620-2058

Digital thermometers, Traceable® Full Scale (Plus)



These thermometers, with LCD and magnetic back, enables, placement on a metallic surface (incubators, freezers, water baths). They incorporate a flip-open easel for use on a lab bench and a spring fastener for clipping it to any edge.

- Piercing tip
- Readings updated every second
- 620-1664, -2089: High/low alarm, maximum/minimum memories and 'HOLD' function

Stainless steel probe (Ø 3,5 mm) and 3 metre cable

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with Traceable® certificate of calibration and 1,5 volt battery for 12 to 18 months of continuous use.

Range (°C)	Accuracy (°C)	Resolution (°C)	Ø (mm)	Pk	Cat. No.
-50...+250	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	53,3	1	620-2058
-50...+300	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	53,3	1	620-1664
-50...+250	±0,5	0,1 (-20...+200); 1,0	53,3	1	620-2064
-50...+300	±0,5	0,1 (-20...+200); 1,0	53,3	1	620-2089



620-1665

Digital dial thermometers, Traceable® Ultra



Dial thermometer for use in soil, cuvettes, test tubes, food products, incubators, biomedical reagents and petroleum hydrocarbons.

- Easy to read
- Large, bright LCD display
- Readings update every 10 seconds

Stainless steel probe (LxØ: 120x4,8 mm)

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with protective case, silver-oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Ø (mm)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+300	±0,4	0,1	38	190x17x20	32	1	620-1665
-50...+300	±1,0	0,1	38	190x17x20	32	1	620-2020



Alarm thermometer with timer, Traceable®



This thermometer, with timer, is designed to monitor liquids, air, gas or semi-solids. The metal cable may be placed in ovens and incubators making this unit ideal for use in these environments.

- Display shows time, current temperature and alarm setting
- Metal cable for applications in ovens and incubators
- Adjustable display and large digits

Curved stainless steel probe (ØxL: 4x215 mm)

Traceable to NIST. Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
0...200	±2,0	1,0	70x76x12,7	1	620-1662



Digital snap-in thermometer, Traceable®



Digital thermometer with stainless steel probe, with handle and 3 metre cable. Versatile panel-mount module that snaps into place or can be used as a stand-alone unit.

- Four-digit LCD: Easy to read
- Maximum/minimum temperature memory
- Reading available in °F or °C, updates every second

Supplied with Traceable® certificate of calibration, probe, cable and battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Pk	Cat. No.
-50...+300	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	Stainless steel probe (LxØ: 70x3,5 mm)	189x12,7x38	1	620-2097

Shockproof thermometer, Traceable® flip stick



This 'flip to open' thermometer has a probe that can be positioned at any angle.

- Easy reading on the large display with big digits
- 'HOLD' function
- Maximum/minimum memory readings over any time period
- Folded up, the probe is protected allowing the thermometer to be carried on a wrist strap or in a pocket

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with battery and Traceable® certificate of calibration.



Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+300	±0,3	0,1 (-20...+200); 1,0	Foldable stainless steel probe (LxØ: 114x3,5 mm)	280x16x38	60,5	1	620-2065



Waterproof thermometer, Traceable®



This piercing thermometer can measure the internal temperature of stored, frozen, or prepared food. For use in soil, brewing, food processing, refrigeration and pharmaceutical applications.

- Waterproof construction allows it to be used in labs, plants, wash-down areas and in the field
- Manufactured to be drop-proof from 1,5 metres
- Reading (°C/°F) updated every second

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with probe, silver oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+280	±1,0	0,1 (-20...+200); 1,0	Stainless steel probe with piercing tip (LxØ: 203x4,8 mm)	89x25,4x241	34	1	620-2091

Digital pocket thermometer, Traceable®

This digital thermometer is suitable for the monitoring of temperatures in lab equipment, plants and field use.

- Shockproof
- Fast response
- One-switch operations for routine applications

Type-K probe with beaded sensor, 120 cm cable

Supplied with Traceable® certificate of calibration, probe with cable, leather case and battery.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+750	±1,0 (0...750); ±2,0 (-20); ±4,0 (-40); ±5,0 (-50)	1,0	108x70x22	113	1	620-1902



620-2017

Water/shockproof thermometers, Traceable®



These thermometers, for wet areas, can be used for monitoring of liquids, air/gas, or semi-solids in freezers, water baths, outdoor tanks, incubators and refrigerators. At the touch of a button, the memory recalls highest and lowest temperature readings over any time period. Reading updates every second. Unit is engineered to be shockproof in drop tests up to 1,5 metres.

- Waterproof LCD
- Shockproof for all field applications
- Easy reading, large digits can be read at a glance

Stainless steel probe (LxØ: 127x3,6 mm) with 3 metre cable

Traceability to NIST. Conformity to ISO/IEC 17025, ANSI/NC SL Z540-1 and 9001.

Supplied with probe, cable, suction cups, magnetic strip, VELCRO® to attach to any surface, Traceable® certificate of calibration and 1,5 volt battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Ø (mm)	Weight (g)	Pk	Cat. No.
-50...+300	±1,0	0,1 (-19,9...+199,9); 1,0	44,5	57	1	620-2017
-50...+300	±0,5 °C; ±1 °C (-20 and 100 °C)	0,1 (-19,9...+199,9); 1,0	44,5	57	1	620-2073

Digital thermometer, Traceable®



Digital thermometer with extra long waterproof stainless steel 500 mm probe with cable (2,5 m).

- Large LCD readable at more than 20 metres
- Accurate readings with tip penetration of only 2,5 cm
- Spring-powered holder enables probe to be placed anywhere

This thermometer is designed for placing in deep vessels like large beakers/flasks, vats, pails and drums in applications including foods, pharmaceuticals and industrial plants.

Traceable to NIST. Calibration complies with ISO/IEC 17025, ANSI/NC SL Z540-1 and 9001.

Supplied with probe, holder, shaft collar, batteries and Traceable® certificate of calibration.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-10...+110	±1,0	0,1	120x84x32	198	1	620-1975



Digital thermometer, Traceable®



This thermometer is designed to monitor temperatures in food, soil, cuvettes, water baths, wastewater, or incubators around the clock. Both a high and low alarm may be programmed in 1° increments: When temperature rises above or falls below set points, a 1 minute audible alarm signals an 'out of range' condition.

- Countdown timer set in 1 minute increments
- Audible alarm for temperature
- Maximum/minimum reading

External stainless steel probe (LxØ: 184x3,6 mm) with 90 cm cable

Conforms to NIST standards, ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with flip-open stand for bench use, probe, AAA battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+260	±1,0	0,1	51x13x102	85	1	620-2021

Digital thermometer with data log memory, Traceable®



This waterproof thermometer captures ten temperature readings, stores them in memory, and recalls them on command. For food, agricultural, petrochemical and pharmaceutical applications. The waterproof construction allows use in wet labs, wash-down areas and outside.

- Maximum/minimum memory readings over any time period
- 'HOLD' function freezes the display to capture temperature to memory
- Both high and low audible alarm may be programmed in 1,0 °C increments
- Stores and recalls 10 temperature readings

Stainless steel probe (LxØ: 190,5x6,4 mm) with 305 cm cable

Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with battery and Traceable® certificate of calibration.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+300	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	73x25x117	113	1	620-2094

Digital mini thermometer, Traceable®



This small, powerful thermometer displays readings in °F and °C. The probe can be used to measure temperatures in liquid, air/gas, or semi-solids.

External stainless steel probe (LxØ: 178x3,5 mm) with 45 cm cable.

- Stainless steel probe is resistant to most chemicals
- Business card size for carrying it with you: Fits in toolkit, briefcase or coat pocket
- Three-switch operation: «HOLD» function, On/Off button and switch between °C/°F

Supplied with a Traceable® calibration certificate and 1 year silver-oxide battery.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+150	±1,0 (0...100); ±2,0	0,1 (-20...+200)	76x13x51	28,3	1	620-2055

Calibrated electronic verification thermometers, frio temp



Digital thermometers verify sample temperatures in freezers, refrigerators, incubators and ovens. Accurate temperature reading without sample contamination is achieved by using the filled bottle (included), which mimics the sample.

- Individually serialised

Plastic bottles cannot be used in ovens.

ISO 17025, ISO/IEC 17025:2005, traceable to NIST

Includes multi-language instructions (English, French, German, Italian, Portuguese and Spanish), AAA or LR44 (620-2148) batteries.

* Internal

** External

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	WxDxH (mm)	Pk	Cat. No.
With max./min., alarm, 30 ml plastic bottle/glass beads and calibration points 0; 50 °C	-10...+50 °C*	±1,0	0,1	Waterproof sensor (30 mm)	1	90x20x44	1	620-2148
With dual display, alarm and duration counter, 30 ml plastic bottle (2)/glass beads, WxH: 40x19 mm and calibration points 0; 50 °C	-40...+70	±1,0	0,1	Waterproof sensor (30 mm)	1	-	1	620-2149
With max./min., temperature hold, 30 ml glass bottle/glass beads and calibration points 0; 100 °C	-50...+200	±2,0 ±0,5 (-20...+70); ±1,0 (70...120)	0,1	Angled stainless steel (80 mm)	1,5	63x20x97	1	620-0904
With max/min, high/low alarm, countdown timer, 30 ml glass bottle/glass beads and calibration points 0; 100 °C	-50...+300	±2,0; ±0,5 (-20...+70); ±1,0 (-20...+120); ±3,0 (200...300)	0,1	Angled stainless steel (152 mm)	1,5	64x20x95	1	620-1724
With 10-event recording with date/time stamp, high/low alarm, max./min., 30 ml glass bottle/glass beads and calibration points 0; 100 °C	-50...+200	±1,5; ±0,5 (-20...+100)	0,1	Angled stainless steel (79 mm)	3	65x18,5x110	1	620-2344

Description	Pk	Cat. No.
Replacement probes		
Bottle probe for 620-1724	1	620-1754

Waterproof digital-calibrated thermometers



These digital thermometers measure the temperature of wet or dry environments including freezers, refrigerators, water baths, aquariums and incubators.

- Waterproof sensor
- Minimum/maximum temperature readings
- Dual-/triple-display with alarms

Probe length: 30 mm

Calibration points: 0; 50 °C

Individually serialised, CE marked, ISO/IEC 17025:2005

Includes accredited calibration documentation and multi-language instructions (English, French, German, Italian, Portuguese and Spanish) and supplied with AAA or LR44 (620-0919) battery.

* External

** Internal

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	Pk	Cat. No.
With dual display and alarm with duration counter, W×H: 40×19 mm	-40...+70	±1,0	0,1	Waterproof sensor	1	1	620-2140
With backlit and max./min., W×H: 73×52 mm	-50...+70 * °C -10...+50 **	±1,0	0,1	Waterproof sensor	1	1	620-2199
With alarm and max./min., W×H: 90×44 mm	-50...+70 * °C -10...+50 **	±1,0	0,1	Waterproof sensor	1	1	620-0919
With solar power and max./min., W×H: 114×36 mm	-50...+70	±1,0	0,1	Waterproof sensor	1	1	620-1720

Precise universal waterproof thermometers TD20, TD21, TD22



Waterproof recalibratable thermometers for high precision measurements in liquids and in air, or for measurement of core temperatures (with insertion sensor); sensor handle and cable temperature range of up to 250 °C (permanent use temperature of 230 °C); laboratories, quality assurance, service, food, etc.

- Short response time
- Can be recalibrated at 0°C and scale
- Back-lit 3-line display / overhead display at the push of a button
- Alarm function
- Waterproof (IP65 / IP67)
- Durable, long battery life
- High-quality sensors: complete with Pt1000 handheld sensor (up to 250 °C incl. handle and cable) or alternative with connection for interchangeable sensors



Device with integrated sensor, calibration log, 2x battery, operating manual.

Model	TD20	TD21	TD22
Range	-70 ... +250 °C		
Accuracy	-20...+100: $\pm 0,1$ K ± 1 digit -70...+250: $\pm 0,2$ % of m. v. ± 2 digits (device + sensor)		
Resolution	0,1 °C		
Operating temperature	-20 ... +50 °C 0 ... 95 % r.h.		
Probe	Immersion sensor Ø 3 mm, Pt1000 permanent 2-wire connection, V4A, 1 m cable	Insertion sensor Ø 3 mm, Pt1000 permanent 2-wire connection, V4A, 1 m cable	Insertion sensor Ø 1,5 mm, Pt1000 permanent 2-wire connection, V4A, 1 m cable
Display	3-line unit, with background light, protected by an unbreakable pane, overhead display at the push of a button		
Protection class	IP65 / IP67 (only with sensors identified as waterproof in the connected state for devices with BNC connection)		
Battery type	2xAA, >5000 hours operating time		
WxHxD (mm)	54x28x108 (without sensor connection)		
Unit weight	130 g		

Description	Pk	Cat. No.
Waterproof recalibratable precision thermometer TD20, with permanently connected immersion sensor Pt1000 (Ø 3 mm), for general applications	1	620-2641
Waterproof recalibratable precision thermometer TD21, with permanently connected insertion sensor Pt1000 (Ø 3 mm), for core temperature applications	1	620-2642
Waterproof recalibratable precision thermometer TD22, with permanently connected insertion sensor Pt1000 (Ø 1,5 mm), for core temperature applications	1	620-2643



Calibrated electronic thermometers with stainless steel probe

These high accuracy digital thermometers, with chemical resistant probes, monitor the temperature of pharmaceuticals, vaccines, chemicals, blood and blood products, food products and more.

- Features available include: 10-event recording, max./min. temperature readings, timer and alarm
- Calibration point: 0; 100 °C

Traceable to NIST, individually serialised, CE marked, ISO/IEC 17025:2005

Includes a accredited calibration documentation and multi-language instructions (English, French, German, Italian, Portuguese and Spanish) and AAA battery.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	Pk	Cat. No.
With max./min. and temperature hold, WxH: 63x97 mm	-50...+200	$\pm 2,0$; $\pm 0,5$ (-20...+70); $\pm 1,0$ (70...120)	0,1	Removable stainless steel (125 mm)	1,5	1	620-0916
With max./min., high/low alarm and temperature hold, WxH: 89x178 mm	-50...+200	± 2 ; ± 1 (-20...+120)	0,1	Removable stainless steel (125 mm)	1,5	1	620-0917
With max./min., high/low alarm and countdown timer, WxH: 64x95 mm	-50...+300	$\pm 2,0$; $\pm 0,5$ (-20...+70); $\pm 1,0$ (70...120); $\pm 3,0$ (200...300)	0,1	Removable stainless steel (152 mm)	1,5	1	620-0918
With 10 event recording with date/time stamp, high/low alarm and max./min., WxH: 65x110 mm	-50...+200	$\pm 1,5$; $\pm 0,5$ (-20...+100)	0,1	Removable stainless steel (125 mm)	3	1	620-2343

Description	Accuracy (°C)	Length (mm)	Pk	Cat. No.
Thermometer probe				
Replacement probe with 1,5 m cable	$\pm 0,5$	125	1	620-1666

Ultra-accurate digital thermometers



These ready to use thermometers are designed for highly accurate, quality temperature management. They can be used in air, gas, liquids and solids. They are suitable for pharmaceutical and biotechnology companies, food industry, government institutes and environment.

- Low battery warning indicator
- Calibratable: Offset and slope input
- 'HOLD' function

Supplied with 9 volt battery, certificate of calibration and plastic case (620-1931 only).



620-1931

Range (°C)	Accuracy (%)	Resolution (°C)	Probe	Pk	Cat. No.
-199...+199	±0,1	0,1	Fixed K (LxØ: 3x100 mm) with PTFE handle and 1 m PTFE cable	1	620-1930
-199...+199	±0,1	0,1	PT 1000 (LxØ: 3x100 mm) with 135 mm plastic handle and 1 m silicone cable	1	620-1929
-65...+199	±0,05 mV; ±0,2	1,0	K with 1 m cable	1	620-1931

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Ultra-accurate K-type probes				
Universal flexible probe for quick response in air, liquids, very small surfaces, twisted pair of PTFE-insulated thermowell wires and DIN-SMP connection	-65...+300	1x1000	1	620-1941
Ultra-accurate probes (PT)				
General purpose probe, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection		3x100	1	620-1946
Penetration probe for soft media, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection	-70...+200	3x100	1	620-1947
Surface probe for soft media, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection		3x100	1	620-1948

Big digit memory thermometers, Traceable®



These digital thermometers, with dual-display allow the simultaneous reading of ambient and probe temperatures. Both cable and sensor perform accurately when underwater. External probe* (LxØ: 20x5 mm) with 3 metre cable and internal sensor**



- Easy reading from up to 8 metres
- Maximum/minimum memory function
- Reset at the touch of a button

Supplied with Traceable® certificate of calibration and AAA battery for one year 'always-on' monitoring, flip-open stand, slot for wall mounting and VELCRO® to attach to any surface.

Range	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70°C*; -5...+50°C**	±1,0	0,1	External probe	70x95x19	114	1	620-2042



Big digit alarm thermometer, Traceable®



This digital thermometer allows the simultaneous reading of ambient and probe temperatures. Audible alarm sounds at high/low temperatures settings, between two settings and outside two settings. Green/red lights and alarm activates when 'out of range' condition is detected.

- Dual display
- Jumbo digits
- Reset at the touch of a button

External probe (LxØ: 16x5 mm) with 1 metre cable.

Supplied with Traceable® certificate of calibration, AAA alkaline battery, suction cup for mounting sensor and plastic case.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+70	±1,0	0,1	1	620-1858



Triple-display thermometer, Traceable®



This digital thermometer is designed for monitoring solutions and room temperatures. It captures and shows the time and date when maximum or minimum values occurred.

- Accurate sensor and cable, even under water
- Maximum/minimum (probe) or ambient temperature
- Wire-mounting bracket for easy probe placement

Internal ambient sensor and external probe sensor (LxØ: 38x4,7 mm) with 1,8 metre cable

Complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with probe, flip-open stand for the bench, slot for wall mounting, VELCRO® to attach to any surface, Traceable® certificate of calibration and AAA battery for continuous 1 year monitoring.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-40...+80	±1,5	0,5	90,4x24x90,4	99	1	620-2032



620-1584

Large digit triple-display thermometers, Traceable®



These jumbo size display thermometers are suitable for monitoring freezers, water baths, heating blocks, incubators and refrigerators. A bottle insulates the sensor from transient temperature changes when the refrigerator door is opened. Solution is GRAS (Generally Recognised As Safe) by the FDA (Food and Drug Administration).

- Triple-display: Maximum/minimum and current temperatures
- Out of range alarm programmable in 1,0 °C increments

Bottle probe in non toxic glycol solution or waterproof bullet probe (20 mm)

Traceability to NIST. Fulfills CDC and vaccine thermometer requirements. Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with Traceable® certificate of calibration, slot for wall mounting, VELCRO® and magnetic strips to attach to any surface, AAA battery and 3 metre cable.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Probe	Pk	Cat. No.
-50...+70	±1,0	0,1	99x111x22	113	Bottle	1	620-1584
-50...+70	±1,0	0,1	99x111x22	113	Waterproof bullet	1	620-1585

Large digit triple-display thermometers, Traceable® Plus



Traceable® Plus digital thermometers monitor temperatures in freezers, water baths, heating blocks, incubators and refrigerators.

- Maximum and minimum memory
- Calibration points at 0 and 50 °C
- Triple display: Maximum, minimum and current temperatures
- Out of range alarm programmable in 1,0 °C increments
- Bottle insulates the sensor from transient temperature changes when the refrigerator door is opened (620-1582)

Bottle sensor in glycol solution or stainless steel bullet probe.

Traceable to NIST. Fulfils all CDC thermometer and vaccine thermometer requirements. Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with Traceable® certificate of calibration, AAA battery, plastic case, probe in bottle or not with 3 metre cable, flip-open stand, slot for wall mounting, VELCRO® and magnetic strips to attach to any surface.



620-1582

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Probe	Pk	Cat. No.
-50...+70	±0,5	0,1	75x62x15	113	Bottle	1	620-1582
-50...+70	±0,5	0,1	75x62x15	113	Stainless steel bullet (20 mm)	1	620-1583

Triple-display thermometers, Traceable®



These digital thermometers are suitable for the monitoring of temperatures in freezers, water baths, heating blocks, incubators and refrigerators. The bottle-enclosed, temperature-buffered sensor is insulated from transient temperature changes. Micro cable allows refrigerator doors to close on it.



- Maximum/minimum monitors high and low readings overnight, at the weekend, or for any time period
- Programmable alarm 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

Waterproof probe (LxØ: 19x8 mm) or bottle-buffered sensor, with 3 metre cable

Compliance with ISO/IEC 17025, ANSI/NCSL Z541-1 and 9001. Traceability to NIST. Patented unit fulfils all CDC thermometer and vaccine thermometer requirements.

Supplied with Traceable® certificate of calibration, flip stand, wall bracket, VELCRO® mounting strips and batteries.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±1,0	1,0	Waterproof	70x20x120	113	1	620-2023
-50...+70	±1,0	1,0	Bottle-buffered sensor	70x20x120	113	1	620-1661

Description	Pk	Cat. No.
Accessories		
Replacement bottle probe	1	620-2488

Digital thermometer, high accuracy, refrigerator and freezer, Traceable®



This high accuracy thermometer monitors both ambient air and the temperature inside a refrigerator or freezer. It reads to 0,01° while monitoring MIN/MAX temperatures in the laboratory, and in the refrigerator or freezer simultaneously, with the exact date and time that the readings occurred. It can also be used in water baths, heating blocks and incubators.

- Smart alarm features a visual/audible alarm that continues to alarm even if the unit returns to non alarm conditions
- Bottle insulates sensor from rapid temperature changes when refrigerator door is opened
- 3 metre micro cable allows refrigerator doors to close on it
- Alarm is settable in 0,1° increments
- Low battery indicator displays when it's time to change batteries

To ensure accuracy, all Traceable® thermometers are provided with a multi-point individually serial-numbered Traceable® certificate provided by an ISO/IEC 17025 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Supplied with batteries, 3 metre cable, magnetic strips, VELCRO® material, bench stand, and Traceable® Certificate. Unit comes with four extra batteries and a full 2 year calibration certificate.



Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±0,3	0,01	1 bottle probe and 1 bullet probe	70x108x19	142	1	620-2425



620-1827

Triple-display thermometers, Traceable®



These highly accurate thermometers monitor temperatures simultaneously in refrigerators and freezers, two refrigerator locations. Temperature-buffered bottle sensor eliminates transient temperature changes when refrigerator door is opened. Patented unit fulfils all CDC thermometer and vaccine thermometer requirements. They may also be used in water baths, heating blocks and incubators.

- Displays exact time and date when an alarm is triggered, alarms are programmable in 0,1 increments
- Monitor minimum and maximum readings and displays exact time and date when maximum and minimum temperatures occurred for both probes

- Triple-display shows current, minimum and maximum temperatures
- High and low user-settable alarms (visual and audio)

Chemical resistant, waterproof sensor/non toxic glycol bottle probes. Cable length: 3 metres.

Solution recognised as safe by the FDA. Calibration compliant with ISO/IEC 17025, ANSI/NCCL Z540-1 and 9001.

Supplied with individually serial numbered Traceable® certificate of calibration indicating traceability to NIST, stand, VELCRO®, magnetic strips and wall mount, two AAA batteries for 1 year 'always-on' monitoring replacement battery.



620-1822

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Pk	Cat. No.
-50...+70	±0,3	0,01	1 bottle	70x108x19	1	620-1823
-50...+70	±0,3	0,01	2 sensors	70x108x19	1	620-1827
-50...+70	±0,3	0,01	2 bottles	70x108x19	1	620-1822



2 bullet sensors

Triple-display thermometers, Traceable® Ultra



These digital thermometers can record the date and the time of up to ten events, which fall outside pre-programmed limits. They are designed to monitor the temperature of blood, fridges and freezers, during transport.

- Smart alarm: Visual and audible alarm even if the unit returns to non alarm conditions
- Triple-display simultaneously shows maximum/minimum and current temperatures
- Maximum/minimum indicator

Probes: Non toxic glycol bottle (5 ml)/micro cylindrical bottle/bullet sensors.

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

Supplied with Traceable® certificate of calibration, flip-open stand, wall mounting, VELCRO®, magnetic strips and low battery indicator.



Bottle/bullet sensor

Range (°C)	Accuracy (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±0,5 (-30...+50); ±1,0	Bottle	65x18,5x110	113	1	620-2334
-50...+70	±0,5 (-30...+50); ±1,0	2 bottles	65x18,5x110	113	1	620-2335
-50...+70	±0,5 (-30...+50); ±1,0	Micro bottle	65x18,5x110	113	1	620-2339
-50...+70	±0,5 (-30...+50); ±1,0	2 micro bottles	65x18,5x110	113	1	620-2340
-50...+70	±0,5 (-30...+50); ±1,0	Bullet sensor	65x18,5x110	113	1	620-2336
-50...+70	±0,5 (-30...+50); ±1,0	2 bullet sensors	65x18,5x110	113	1	620-2337
-50...+70	±0,5 (-30...+50); ±1,0	Bottle/bullet sensor	65x18,5x110	113	1	620-2338



Digital thermometers, Traceable® digital bottle



These thermometers accurately monitor temperatures in freezers, refrigerators, incubators and environmental chambers. Bottle and solution insulate the sensor from transient temperature changes. With waterproof, non toxic glycol bottle probe.

- Easy to read digital display
- Maximum/minimum and current temperatures

Solution recognised as safe by the FDA. Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with individually serial numbered Traceable® calibration certificate indicating traceability to NIST, plastic holder, VELCRO® and double-backed tape for wall mounting and replaceable silver-oxide battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
-20...+50	±0,5 °C (0-50) / ±1	0,1	56x25x110	1	620-1826

Thermometers for refrigerators and freezers, Traceable®



620-2216

These digital thermometers are designed for monitoring temperatures in refrigerators, freezers, water baths, heating blocks and incubators. Bottle probes are used in monitoring storage conditions for vaccines or other important samples.

- Fixed 1 minute logging interval
- Stores up to ten unique alarm events
- Capable of storing over one million observations
- Raw data on unit cannot be overwritten or modified
- Status: Low battery, low memory, USB data transfer and active alarm state



620-2213

Bottle probe in non toxic glycol/bullet sensor/stainless steel probe with 3 metre cable

Traceable to NIST. Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001. Meets current CDC requirements and additional recommendations for vaccine storage and monitoring. Can be used in environments requiring 21 CFR 11 compliance.

Supplied with batteries, universal adapter, stand, VELCRO®, magnetic strips, wall mount, Traceable® certificate of calibration and batteries.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±0,25	0,01	1 bottle	70x19x108	140	1	620-2211
-50...+70	±0,25	0,01	2 bottles	70x19x108	140	1	620-2212
-50...+70	±0,25	0,01	1 bullet sensor	70x19x108	140	1	620-2213
-50...+70	±0,25	0,01	2 bullet sensors	70x19x108	140	1	620-2214
-50...+70	±0,25	0,01	1 bottle/1 bullet sensor	70x19x108	140	1	620-2215
-50...+70	±0,25	0,01	1 stainless steel	70x19x108	140	1	620-2216
-50...+70	±0,25	0,01	2 stainless steel	70x19x108	140	1	620-2217

Extreme accuracy triple-display thermometers, Traceable®



These international standard digital thermometers provide exact readings necessary for critical requirements, quality control checks and routine measurements. The stainless steel probe shows the slightest temperature change in liquid, air/ gas and semi-solids. It delivers exact time/date when temperatures rise above/fall below set points.

- Three-line display: Maximum/minimum and current temperatures
- Displays the exact time and date when the limits occurred
- Programmable alarm provides two visual (LED) and two audio alerts when temperature rises above or falls below high and low set points

Stainless steel probe (LxØ: 15x3,2 mm) with 1,5 metre cable.

High accuracy of 0,05 °C at three points (within ±2,0 °C): 0,00; 25,00; 37,00 °C.

Certificate indicates traceability to standards provided by NIST. Compliance with ISO/IEC, ANSI/NCSL Z540-1 and 9001.

Supplied with Traceable® calibration certificate, two AA batteries, stand, VELCRO® and magnetic strips, plus a wall mount.



620-1824

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-2...+2	±0,05	0,01	106x69x20	142	1	620-1824
23...27	±0,05	0,01	106x69x20	142	1	620-1884
35...39	±0,05	0,01	106x69x20	142	1	620-1885
-2...+2; 23...27; 35...39	±0,05	0,01	106x69x20	142	1	620-1886

Highly accurate freezer thermometers, Traceable®



These triple-display thermometers offer a choice of different probes. The bottle insulates the thermometer from rapid temperature changes when door is opened. The stainless steel handle probe (ØxL: 3,2x300 mm) with 3 metre cable is waterproof and suitable for liquids, air/gas and semi-solids, with adjustable holder and VELCRO® tape.

- Maximum/minimum values on the last 24 hours (each hour) and the last 7 or 30 days (each day)
- Time and date stamp key: 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 in 0,1 °C increments

Choice of four platinum probes with PTFE cable

Calibration points:

620-1976 and 620-1977: -40 °C; 0 °C; 50 °C

620-1978: -80 °C, -40 °C, and 0 °C

620-1979: -80 °C, 0 °C, 50 °C and 190 °C

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

Supplied with two AAA batteries, PT probe, cable, bench stand, wall mount and serial numbered Traceable® certificate of calibration.



620-1978

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	WxDxH (mm)	Pk	Cat. No.
-99,99...+199,99	±0,1	0,01	Stainless steel	3,04	108x70x19	1	620-1978
-99,99...+70	±0,1	0,01	Stainless steel bullet	3,04	108x70x19	1	620-1979
-50...+70	±0,1	0,01	Non toxic glycol bottle	3,2	108x70x19	1	620-1976
-50...+70	±0,1	0,01	PTFE sensor	3,2	108x70x19	1	620-1977

Digital thermometer, platinum, clinical trials, Traceable®



These platinum, clinical trial thermometers are used to monitor the temperature in water baths, heating blocks and incubators. They display min./max. temperatures for the previous 24 hours (each hour) and previous 7 days (for each days); 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
- Triple-display simultaneously shows min./max. and current temperatures, °F/°C switchable
- Micro cable allows refrigerator doors to close on it
- Alarm is settable in 0,1° increments and signals with temperature falls below or goes above set points
- Low battery indicator displays when it's time to change the batteries

To ensure accuracy, all Traceable® thermometers are provided with a multi-point individually serial numbered Traceable® certificate provided by an ISO/IEC 17025 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Supplied with four extra batteries and a full 2 year calibration certificate. Thermometer is delivered with a bullet probe (as shown on the picture).

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-100...+70	±0,1	0,01	1 bullet probe	3	70x108x19	142	1	620-2424

Radio-signal digital thermometer, Traceable®



This digital thermometer provides four channels and controls up to three remote wireless modules.

- Maximum/minimum memory display for each channel
- Jumbo digits: Temperature readable from up to 30 metres
- Audible and programmable alarms on each module, when the temperature rises above or falls below the two set points

Internal sensor and external probes with 3 metre cable

With remote probe:

Temperature range: -50 to 70 °C

Ambient operating range: -20 to 60 °C

Resolution 0,1°

Accuracy: ±1°C

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Traceability to NIST.



Supplied with an internal sensor, a remote module and its external probe, a Traceable® certificate of calibration, flip-open stand, wall bracket, VELCRO® strips, two AA and two AAA batteries.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
-9...+70	±1,0	0,1	103x117x25	1	620-1669

Description	Pk	Cat. No.
Remote sensors, Traceable®		
Remote sensor module	1	620-1670
Stainless steel probe with 150 mm cable	1	620-1671
External sensor sealed in a mini bottle filled with glycol solution	1	620-1672

Radio signal digital thermometer with bottle probe, Traceable®



This radio-signal thermometer can read refrigerator temperatures from up to 100 feet away. They can provide readings from up to three remote refrigerator sensors, to a main unit (frequency of 433 MHz).

- Distinctive alarm sounds when temperature rises above/falls below high and low set points, set in 1 °C increments
- Sealed GRAS (Generally Recognised as Safe by FDA) bottle insulated from rapid temperature changes
- Easy to read two-line display: Data update every 30 seconds, minimum/maximum memory

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with a main unit, a remote unit, batteries, flip-open stand, wall mount, VELCRO® and Traceable® calibration certificate.



Description	Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Wireless radio-signal thermometer with remote refrigerator bottle probe module, Traceable®	-30...+70	±1,0	0,1	108x114x19	170	1	620-1982

Description	Pk	Cat. No.
Remote module		
Remote refrigerator bottle probe module, Traceable®	1	620-1983

Ultra-accurate RTD platinum thermometer, Traceable®



Highly precise, it is suitable for soil, food, ovens, cuvettes, gas systems, water baths, incubators, chemical solutions and petroleum products.



- Developed for experimental requirements, easy to use
- Fail-safe display shows low battery and probe condition
- Computer output allows thermometer to be connected to data logger for capturing and storing results
- Both range: °C and °F
- Dimensions: 6» probe, 0,13» diameter, 40» cable length
- Removable probe: Platinum 100 ohm, (PT100), four-wire probe for liquids, air/gas and semi-solids

Platinum (PT100) four-wire probe range with 1 metre cable

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

This thermometer is battery-operated, however, it does have a port for a AC adapter (see accessories).

Supplied with probe, battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+400	±0,10% +0,2 <+200; ±0,15% +0,5 >+200	0,01 (<200), 0,1 (>200)	LxØ: 152,4x3,3 mm	177x76x32	270	1	620-1970

Description	Pk	Cat. No.
Accessories		
Universal 9V AC adapter for use with models 662-0940 and 620-1970	1	620-2628

Wide range digital thermometer, Traceable®



For quality control, routine monitoring, measuring temperatures in cuvettes, gas systems, reagents, chemical solutions, soil, water baths, ovens, incubators, petroleum products, foods and wastewater. Instant memory key recalls minimum and maximum readings over any time period. Stainless steel K-type thermocouple probe for any J-, K- or T-type probe.

- Computer output allows thermometer to be connected to a computer or data logger for capturing and storing readings
- Large, backlit LCD display: Values can be read even in poor lighting
- Count-up timer provides a relative time measurement while taking temperatures and recording min./max. memories

NOTE: Values are valid for the included stainless steel probe. The thermometer can measure temperatures from -200 to +1370 °C with suitable probes that need to be ordered separately.

Traceable to NIST plus conform to International Temperature Standard, ITS-90. Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with probe, 9 volt battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+700	±1,0	0,1 (-200...+640); 1,0	70x32x178	184	1	620-2004



Full-scale digital thermometer, Traceable®



Water resistant design for use in lab or plant's worst environments. The thermometer case can stop dirt, dust, fumes and water. A fast response microprocessor updates the display twice a second.

- Extra large digits (16 mm) readable from 2 metres away
- Minimum and maximum readings captured at any time
- Alarm in 1,0 °C increments above or below set points
- Timer from 23 hours 59 minutes to 1 minute
- 'HOLD' freeze button

K-type probe and cable (LxØ: 1200x1,5 mm)

Traceable to NIST. Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001

Supplied with protective casing and flip-open stand, also Traceable® certificate of calibration, three AAA batteries and fast response probe (620-2012).

The standard probe supplied with the thermometer has a temperature range of -40 to 250 °C

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-200...+1370	±1,0; ±2,0 (>+740)	0,1; 1,0	83x38x178	227	1	620-2006

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
K-type probes				
Stainless steel probe 4014, with 1 m cable	-50...+700	3,30x190,5	1	620-2005
K-type fast response probe 4028, with 1,2 m coated cable	-40...+250	15x1219	1	620-2012
Stainless steel probe 8039, with 2,4 m cable for low temperature applications	-170...+220	4,3x304,8	1	620-2104
Beaded probe 8613, with metal wire cable for high temperature applications	-73...+982	4,8x3048	1	620-2106

Precision digital thermometer, Traceable®



This thermometer can record up to 50 temperature values per hour during a 24 hours time period. The membrane keys provide a splashproof design for rough handling.

- Fast response probe updated three times per second
- Memory key to recall minimum/maximum readings
- 'HOLD' freeze function

Stainless steel probe (ØxL: 3x160 mm) with 1,7 metre cable

Traceability to NIST and from ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001 calibration laboratory accredited by A2LA. Conformity to ITS-90.

Supplied with PVC protective casing, Traceable® certificate of calibration, 9 volt battery and probe.



Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+150	±0,05	0,001	89x32x140	227	1	620-2000

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Probes, Traceable®				
Replacement probe with USB connection			1	620-1987
Stainless steel micro probe	-50...+150	1x70	1	620-2008
Accessories				
Data acquisition software for hum./temp./dew point meters and thermometer 620-2000			1	630-2507



Ultra-accurate digital thermometers, Traceable®



These thermometers are designed for food, pharmaceuticals, petroleum products, wastewater, gas systems, soil, ovens and electronics manufacturing.



- 'HOLD' and maximum/minimum memory (each hour)
- Platinum sensor insures linear response and high accuracy across the entire range: Fast response and waterproof four-wire probes
- Instant response probe updates readings three times per second for liquids, air/gas and semi-solids
- Decimal placement key changes display show one, two, three or four significant numbers after the decimal point
- Membrane covered keys are splashproof

Stainless steel probe (LxØ: 178x3,3 mm) and 1,8 metre cable/bullet probe (LxØ: 25x3,2 mm) and tree metre PTFE cable.

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

Supplied with battery, computer output, plastic carrying case and Traceable® certificate of calibration.

Model	Range (°C)	Accuracy (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
6412	-200...+500	0,05% (-80...+290)	Stainless steel	89x32x140	230	1	620-1980
6413	-200...+500	0,05% (-80...+290)	Bullet sensor	89x32x140	230	1	620-1981

Description	Pk	Cat. No.
Accessories		
Data acquisition software for hum./temp./dew point meters and thermometer 620-2000	1	630-2507

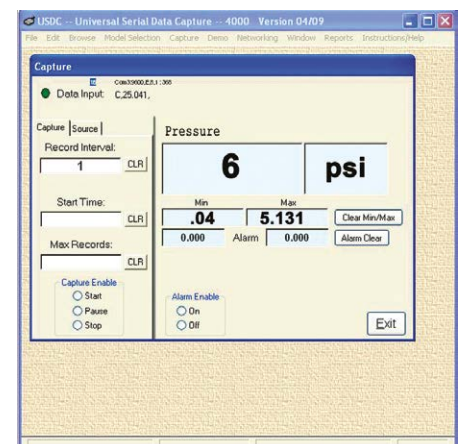
Software, Traceable®

Data capture program for thermometers communication port.

The software allows connection of up to eight instruments all running simultaneously on one computer. Records interval readings from 1 to 10 000 seconds; displays minimum/maximum readings; uses an alarm mode that allows the user to be notified visually, audibly and by email when an alarm is triggered. Readings are saved to a file that can be viewed and printed as is, or may be printed in any report or spreadsheet format. The software is designed to work with Windows® 98/Me/NT/2000/XP/Vista/Windows 7.

- 24/7 notification of audible/visual alarms are sent to user's computer, remote computer, or via email anywhere
- Simply connect the cable to the instrument and to a USB port (or serial port) and data is captured
- Captures data in the background which enables the user to work on other programs

Includes a CD, 1,8 metre cable (USB, serial and instrument connections), cable plugs into the instrument and computer.



Description	Pk	Cat. No.
Data acquisition software for thermo-hygrometer	1	620-2303
Data acquisition software for thermometers, light meters, conductivity meters, oxygen meters and anemometers	1	620-2048
Data acquisition software for hum./temp./dew point meters and thermometer 620-2000	1	630-2507



Fast response digital thermometer, Traceable®



This dual-channel thermometer allows the monitoring of two separate probes. The dual display simultaneously shows the temperature of both probes or the temperature of one probe and the difference between the two (T1-T2). This thermometer can be used with all K-type thermocouple probes.

- Serial computer output allows connection to computer or data logger for capturing and storing results
- Memory recalls maximum/minimum readings
- 'HOLD' button freezes the current display

Two fast response (<1 second) probes with 1,2 metre cable.

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with two probes, nine volt battery and Traceable® certificate of calibration.

NOTE: Values are valid for the included beaded probes. The thermometer can measure temperatures (–50...+1230 °C) with suitable probes that need to be ordered separately.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
–40...+250	±0,75% +1,0	0,1 (–50...+199,9); 1,0	178x32x76	269,5	1	620-2049

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
K-type probes				
K-type fast response probe 4028, with 1,2 m coated cable	–40...+250	15x1219	1	620-2012
Beaded probe 8613, with metal wire cable for high temperature applications	–73...+982	4,8x3048	1	620-2106

Calibratable handheld thermometer, TD 131



This ready to use thermometer, with removeable probe, features automatic or manual choice of the measuring range. It can be used for general purpose applications in air, gas, liquid and solids measurements (depending on the probe type). It is suitable in pharma and biotech companies (production and labs), in the food industry (dairy products, fish, meat and healthcare) blood, government institutes and environment.

- Low battery warning indicator
- Calibratable: Offset and slope input
- Maximum/minimum memory and 'HOLD' function

Supplied with certificate of calibration and transport case.



Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
–200...+200	±0,2	0,1	PT1000 (accuracy: ±0,3 °C)	1	620-1933

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Ultra-accurate probes (PT)				
General purpose probe, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection	–70...+200	3x100	1	620-1946

Calibratable ultra-accurate thermometers



These ready to use thermometers, with probe, are designed for temperature measurements which require high accuracy. They can be used for general purpose applications in air, gas, liquid and solids measurements, depending on the probe type. They are suitable for use in pharmaceutical and biotechnology companies (production and laboratories in the food industry), dairy products, fish, meat, healthcare, blood, government institutes and environment.



620-2652

- Low battery warning indicator
- Calibratable: Offset and slope input
- Maximum/minimum memory and 'HOLD' function
- Large choice of probes: PT100 (620-1932) or K-, J-, N-, S- or T-type (620-1934, 620-1935)
- Temperature drift of 0,002 °C/K i.e. accuracy of 0,06 °C at 37 °C

Supplied with probe, 9 volt battery, certificate of calibration and transport case.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Handheld thermometer TD121, with plastic handle and probe (620-1944)	-200...+400	≤0,03	0,01; 0,1	PT100	71×26×142	170	1	620-1932
Handheld thermometer TD142, with probe (620-1941)	-220...+1750	≤0,03% ±0,05% FS	0,1; 1,0	J, K, N, S, T	71×26×142	170	1	620-2664
Dual-channel thermometer TD242, with flexible probe (620-1941)	-220...+1750	≤0,03% ±0,05% FS	0,1; 1,0	J, K, N, S, T	71×26×142	170	1	620-2652

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Ultra-accurate K-type probes				
Universal flexible probe for quick response in air, liquids, very small surfaces, twisted pair of PTFE-insulated thermowell wires and DIN-SMP connection	-65...+300	1×1000	1	620-1941
Ultra-accurate probes (PT)				
Immersion and air probe, PT100 with plastic handle, PVC cable (1 m) and DIN connection	-50...+400	3×150	1	620-1944
Penetration probe, PT100 with plastic handle, PVC cable (1 m) and DIN connection	-50...+400	3×150	1	620-1945

Ultra-accurate K-type probes

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Penetration probe for soft media with DIN-SMP connection	-65...+400	1,5×100	1	620-1936
General purpose probe for surface, immersion, air and gas with plastic handle, silicone cable (1 m) and DIN-SMP connection	-65...+400	1,5×100	1	620-1937
Immersion probe with 135 mm plastic handle, 1 m cable and DIN-SMP connection	-65...+550	1,5×130	1	620-1938
Surface probe with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+400	2,5×100	1	620-1939
Penetration probe with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+1000	3×130	1	620-1940
Universal flexible probe for quick response in air, liquids, very small surfaces, twisted pair of PTFE-insulated thermowell wires and DIN-SMP connection	-65...+300	1×1000	1	620-1941
Air/gas probe for deep frozen goods with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+600	6×130	1	620-1942
Penetration probe for deep frozen goods with plastic handle (135 mm), cable (1 m), DIN-SMP connection	-65...+200	3×130	1	620-1943



Analogue thermo-hygrometer

For all environments, this analogue thermo-hygrometer can withstand use inside incubators, refrigerators and freezers. It features contrasting black temperature dial and red humidity dial against a white background.

- Round design
- Stainless steel casing
- Large easy to read dial

Supplied with a hook for wall mounting.

Range	Division	Ø (mm)	Pk	Cat. No.
0...120 °C; 0 - 100% RH	1,0 °C; 2,0% RH	127	1	620-0923



Analogue thermo-hygrometer clock

Thermometer-hygrometer analog clocks feature plastic casing and white dial face.

- Three functions in one
- Contemporary design with bold markings

Supplied with hook for wall mounting. Requires AA battery (not included).

Range	Division	Ø (mm)	Pk	Cat. No.
-30...+60 °C; 0 - 100% RH	±2,0 °C; ±5,0% RH	250	1	620-0921



Precision barometer, Traceable®

This barometer with triple-scale provides a sensitive measure of atmospheric pressure. Corrosion-proof, nickel-chrome.

- Three distinct scales
- Adjustable pointer to indicate changes
- Response time to change from 1 to 4 hours

Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with altitude adjustment screw (use at locations as high as 1000 metres), notched desk stand, wall mount and Traceable® certificate of calibration.

Range	Accuracy (%)	Resolution	Weight (g)	Pk	Cat. No.
954 - 1073 mbar; 715 - 805 mm Hg	±0,5	0,5 mbar; 0,5 mm Hg	453	1	628-0041



Barometer with thermo-hygrometer

This barometer features three scale ranges for temperature, relative humidity and pressure. Brass with stainless steel case.

- Improved readability
- Black lines and numbers
- Calibrated according to official values

Range	Accuracy	Weight (g)	Pk	Cat. No.
940 - 1058 mbar; 70,5 - 79,4 cm Hg; -30...+50 °C; 0 - 100% RH	±3,5 mbar; ±0,3 cm Hg; ±0,1 Hg in; 2,0%; 5,0% RH	476	1	620-2126



Pen-style digital thermo-hygrometer, Traceable®

This digital thermo-hygrometer continuously displays both relative humidity and temperature.

- Quick dual-recall memory
- Fast response (less than 6 seconds)
- Handy pocket clip for easy carrying

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with individually serial numbered Traceable® certificate of calibration that indicates traceability to NIST and 1,5 volt battery.

Range	Accuracy	WxDxH (mm)	Pk	Cat. No.
0...50 °C; 25 - 95% RH	±1,0 °C; ±3,5% RH	23x140x11	1	620-1586



Digital thermo-hygrometer, Traceable®

This thermometer/clock/humidity monitor shows time, temperature and humidity simultaneously. Internal sensors for use in hoods and storerooms.

- Memory-clear function
- Maximum/minimum memory
- Memory recalls the highest and lowest readings

Certificate indicates traceability to standards provided by NIST. Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with Traceable® certificate of calibration, built-in stand and AAA battery.

Range	Accuracy	Resolution	WxDxH (mm)	Pk	Cat. No.
0...50 °C; 20 - 90% RH	±1,0 °C; ±5,0% RH	0,1 °C; 1,0% RH	59x108x15	1	620-1673

Digital thermo-hygrometer

This digital thermo-hygrometer is designed for temperature and humidity measurements in fridges and freezers. It is suitable for use in food and beverage processing, storage and chemistries.

- Switch the temperature readings from the internal sensor to the external probe
- Maximum/minimum values, memory switchable and daily reset function
- Large display shows all values simultaneously
- The SET, 12/24, ALERT function buttons are on the back of the unit, so the unit only has three buttons on the front
- The display for the internal sensor is noted as 'INT' and the external sensor as 'EXT'

Internal sensor and external probe with cable (3 metre)

W×H: 63,5×95,3 mm

RoHS compliant. Tested and calibrated in exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST.

Supplied with waterproof sensor, magnetic backing, AAA battery, certificate of calibration and multi-language (English, French, German, Italian, Portuguese and Spanish) instructions. The screen is shipped with a protective film.

Zone 2 with freeze alert for congelation.



Range	Accuracy	Resolution (°C)	Weight (g)	Pk	Cat. No.
0...50 °C; -50...+70 °C; 20 - 99% RH	±1,0 °C; ±5,0% RH	0,1	136	1	620-0915



Digital thermo-hygrometer, Traceable®

This thermo-hygrometer is suitable for routine measurements, monitoring round the clock, quality controls and critical experimental requirements. It shows the exact air conditions in hoods, cleanrooms, storage rooms, environmental chambers and chemicals storage areas.

- Continuous and simultaneous display of relative humidity and temperature
- Minimum/maximum memories
- Fast response

Conforms to ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001 accredited by A2LA. Traceable to NIST.

Supplied with Traceable® certificate of calibration, wall mounting and bench stand, solid sensors plus two AAA batteries.

Range	Accuracy	Resolution	W×D×H (mm)	Weight (g)	Pk	Cat. No.
0...50 °C; 25 - 95% RH	±1,0 °C; 2,0; 4,0% RH	1,0 °C; 1,0% RH	57×85×6	70	1	620-1921

Digital thermo-hygrometer, Traceable® jumbo

This thermo-hygrometer continuously and simultaneously displays ambient relative humidity and temperature. Rapid response in less than 30 seconds for monitoring conditions overnight, at the weekend, or any other time period.

- Easy to read jumbo display (25 mm)
- Probe and cable perform accurately under water
- Minimum/maximum memories displayed or cleared at any time with the touch of a button

Internal sensor and external probe with cable (3 metre)

Compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with flip-open stand, wall mount, AAA batteries and Traceable® certificate of calibration.



Range	Accuracy	Resolution	W×D×H (mm)	Weight (g)	Pk	Cat. No.
0...+50 °C (in); -50...+70 °C (ex); 25 - 95% RH	±1,0 °C; ±2,0 (mid range); ±4,0% RH	1,0 °C; 1,0% RH	108×19×107	152,5	1	628-0031

Remote alarm thermo-hygrometer, Traceable®

These thermo-hygrometers are ideal for routine measurements, monitoring 'round the clock', all quality control needs, and critical experimental requirements. Perfect for use in hoods, classrooms, stockrooms, environmental chambers and chemical storage areas.

- Triple-display shows min., max. and current humidity/temperature readings
- Min./max. temperature and humidity memories
- High/low alarm feature may be set by user in 1% RH or 1° increments
- F/°C switchable
- Remote humidity/temperature sensor on a 2,1 metre cable

* Temperature

** Humidity

***Temperature probe

Individually calibrated ISO 17025 certified. Individually certified—traceable to NIST

Supplied with Traceable® certificate, battery, external sensor, flip-open stand and wall mount.



Description	Range	Accuracy	Resolution	WxDxH (mm)	Pk	Cat. No.
Remote alarm RH/temperature monitor with external probe 2,1 m cable (external and ambient readings)	0...60 °C* 5 - 95 %**	±3% (RH: 25 - 75%), ±5% ±5***	0,1* 0,1%**	69×19×102	1	620-2486
Remote alarm RH/temperature monitor with internal probe (ambient reading only)	0...60 °C* 5 - 95 %**	±3% (RH: 25 - 75%), ±5% ±5***	0,1* 0,1%**	69×19×102	1	620-2487

Digital thermo-hygrometers with external probe, Traceable®



This thermo-hygrometer measures temperature and relative humidity displaying both on a dual-LCD. Designed for monitoring conditions in cleanrooms, computer rooms, storage facilities and anywhere temperature and RH affect vital components and tests.

- Maintains accuracy with 'do it yourself' calibration
- Simultaneously displays both temperature and relative humidity on dual-display LCD (28,6 mm character height)
- Minimum/maximum memory
- Interface for transfer of data to a computer
- An audible click confirms each key entry.

Compliant ISO/IEC 17025, ANSI/NSCL Z540-1 and 9001.

Traceable to NIST standards.

Supplied with probe (LxØ: 216×17 mm) and 91 cm cable, Traceable® certificate of calibration, hard plastic carrying case and 9 volt battery for 100 hours of continuous use. The data acquisition software incl. cable (620-2048) that needs to be ordered separately.

*mid range

Description	Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Memory hygrometer/ thermometer with dew point: 0 to 50 °C	-18...+93 °C; 10 - 95% RH	±1,0 (0...40); 2,0 °C; ±2,0% RH*; ±4,0% RH	0,1 °C; 0,1% RH	181×32×70	305	1	620-2273
Memory hygrometer/ thermometer	-18...+93 °C; 1 - 95% RH	±1,0 (0...40); 2,0 °C; ±2,0% RH*; ±4,0% RH	0,1 °C; 0,1% RH	181×32×70	305	1	620-1874

Description	Pk	Cat. No.
Accessories		
Data acquisition software for thermo-hygrometer	1	620-2303
Data acquisition software for thermometers, light meters, conductivity meters, oxygen meters and anemometers	1	620-2048

Digital thermo-hygrometer

This handheld instrument is designed to measure temperature and humidity in air conditioning and ambient air monitoring. It provides a quick response in EDP rooms, galleries, offices, workshops, storage rooms, private buildings and greenhouses.

PT1000 and capacitive-polymer sensor (LxØ: 35x14 mm)

Supplied with 9 volt IEC 6F22 battery with low battery warning in cardboard box and certificate of calibration.

Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-20...+70 °C; 10 - 95% RH	±0,5% ±0,1 °C; ±3,0% RH	0,1 °C; 0,1% RH	106x67x30	135	1	620-1951



Radio-digital thermo-hygrometer, Traceable®

This wireless thermo-hygrometer, readable from up to 30 metres (433 MHz), can receive and display data from up to three remote modules. They can be connected to one base unit, which displays the temperature and humidity of the base unit and of the three different remote modules.

- Data transmitted every 30 seconds
- Trend indicators: Rising or falling
- Maximum/minimum display
- Audible alarms on modules
- Jumbo digits
- IP 20

Traceability to standards provided by NIST. Compliance with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with remote sensor module and Traceable® certificate of calibration.



Range	Accuracy	Resolution	WxDxH (mm)	Pk	Cat. No.
-20...+60 °C; 25 - 90% RH	±1,0 °C; ±2,0% RH	0,1 °C; 1,0% RH	103x117x25	1	620-1674

Description	WxDxH (mm)	Pk	Cat. No.
Additional Traceable® humidity/thermometer remote sensor module			
Temperature and humidity sensor	60x90x20	1	620-1675

Digital thermo-hygrometer with dew point, Traceable®

Convenient triple-reading meter with 'always on' feature for continuous monitoring conditions. Audible and LED alarm may be set to trigger at three different humidity readings (55%, 60% or 65%). Solid sensors deliver response times of less than 30 seconds.

- Large, clear display supplies updates once a second
- Simultaneously displays all three current readings
- Minimum/maximum readout in memory for relative humidity (RH), dew point and temperature

Traceable to NIST. Calibration conform with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with wall mount, batteries and Traceable® certificate of calibration.



Range	Accuracy (%)	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-10...+60 °C; 1 - 99% RH	±3,0 mid range; ±5,0	0,1 °C; 0,1% RH	66,7x16x98,4	170	1	620-2277

Thermo-hygrometer with dew point and wet bulb, Traceable®

This instrument with internal sensor is designed for measurement of relative humidity (RH) and temperature.

- Current or maximum/minimum values
- High and low alarms may be set in 0,1 increments for all four readings
- Alarm sounds for 1 minute and a red LED flashes until reading returns to non alarm conditions

Traceable to NIST standards. Calibration conform with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with stand, wall mount, two AA batteries and Traceable® certificate of calibration.



Range	Accuracy (%)	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-40...+70 °C; 1 - 99% RH	±4,0 (20 - 80)	0,1 °C; 0,1% RH	108x25,4x108	120,5	1	620-2278

Description	Pk	Cat. No.
Accessories		
Magnetic mount for hanging up devices with integrated suspension clip	1	620-8307

Thermo-hygrometer with barometer

This accurate thermo-hygrometer with barometer features additional derived units: Dew point temperature, wet bulb temperature, moisture content and absolute humidity. It is suitable for air conditioning applications, ambient air monitoring, meteorology, living climate and air pressure measurement in EDP rooms, storage rooms, greenhouses and production rooms.

- Maximum/minimum value memory for all measurements
- High accuracy by means of digital-works calibration
- Offset and slope correction for easy adjustment
- Configurable display: Alternating values
- 'HOLD' function to freeze the values
- Tendency indicator for barometer

PT1000 and capacitive-polymer, piezo-resistive fixed sensor probe (LxØ: 35x14 mm)

Supplied with 9 volt IEC 6F22 battery, low battery warning and certificate of calibration.



Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-25...+70 °C; 0 - 100% RH; 10 - 1100 mbar	±0,5% m.v. ±0,1 °C; ±2,5% RH; ±1,5 mbar	0,1 °C; 0,1% RH; 0,1 mbar	106x67x30	130	1	620-1952



Thermo-hygro dew point and flow rate meter



This handheld meter features additional units: Dew point temperature and distance, plus enthalpy. It is suitable for applications such as air conditioning, ambient air monitoring and flow measurement.

- Double-display of humidity and temperature
- Calculation of dew point temperature, dew point distance and enthalpy
- Additional Nicr-Ni K-type socket for surface measurement
- Maximum/minimum value memory, 'HOLD' function
- Serial interface, direct connexion to a PC via isolated interface adapter

Additional data cable is needed when used with a PC, please contact VWR for further information.

Supplied with temperature thermo-hygrometer probe, certificate of calibration and plastic case.

Range	Accuracy	Resolution (m/s)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-40...+120 °C	±0,5% m.v.	0,1 °C	71x26x142	160	1	620-1954
0 - 100% RH	±0,5 °C	0,1% RH				
0,55 - 20,00 m/s	±0,1% RH	0,01				
	±0,1 m/s					

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
Ultra-accurate K-type probes				
General purpose probe for surface, immersion, air and gas with plastic handle, silicone cable (1 m) and DIN-SMP connection	-65...+400	1,5x100	1	620-1937
Surface probe with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+400	2,5x100	1	620-1939
Probes				
Humidity/temperature probe HT 100 with cable			1	620-1955

Digital barometer, Traceable®

This digital barometer monitors barometric pressure, air temperature, relative humidity also barometric pressure trend and time.

- Four-line LCD with continuous and simultaneous display of parameters
- Maximum/minimum readings for pressure, temperature and humidity
- Data stored every hour for the last 24 hours and can be recalled 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
- Unit can be connected to a computer to permanently capture readings

Individually numbered Traceable® calibration from an ISO/IEC 17025:2005 laboratory accredited by AZLA.

Supplied with Traceable® certificate of calibration, wall mount, flip-open stand and batteries.



Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
500 - 1030 mbar; 0...55 °C;	±4,0 mbar; ±0,4 °C;	1,0 mbar; 0,1 °C;	100x76x25	200	1	620-2330
0 - 100% RH	±3,0% RH	1,0% RH				

Description	Pk	Cat. No.
Accessories		
Computer data acquisition system	1	620-2331



Alti, baro and thermometer



This precision alti, baro and thermometer is ideal for professional use in sports and technology.

- Lucent-screening grid front (IP 65)
- Maximum/minimum value memory
- Tendency meter for falling and/or rising air pressure
- Sea level adjustment and summing function
- Over 6000 operating hours

Piezo-resistive absolute pressure and temperature sensor

Incl. nine volt battery type IEC 6F22 and low battery warning.

Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-10...+50 °C; 300 - 1100 mbar; -500...+9000 m	±1,0%; ±1,5 mbar	0,1 °C; 0,1 mbar	67x30x106	135	1	620-1953

Alti, baro and thermometer, Traceable®

This compact, lightweight meter can measure barometric pressure, temperature and altitude. It graphically displays the barometric pressure trend and has a stopwatch/clock and compass.

- Rugged shock resistant case
- Clock with time of day and stopwatch
- Graphically displays barometric pressure trend

Conforms to ISO 17025 accredited by A2LA indicating traceability provided by NIST.

Supplied with lanyard and two batteries.



Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-10...+60 °C; 8,85...32,45 in Hg; 300 - 1100 mbar; -700...+9000 m	±1,5 °C; ±8,0 mbar	0,1 °C; 1,0 mbar; 0,1 m	95x70x19	100	1	620-1922



620-1667

Temperature chart recorders, Traceable®

These disposable recorders can monitor temperature measurements in refrigerators, supply rooms, food storage, chemical warehouses, animal quarters, incubators, walk-in chambers and manufacturing plants.

- Charted copy of temperature
- Tamper-evident seal to maintain the integrity of unit and results

Traceability to standards provided by NIST. Calibration compliant with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001.

Supplied with chart, marker, AA alkaline battery and Traceable® certificate of calibration.

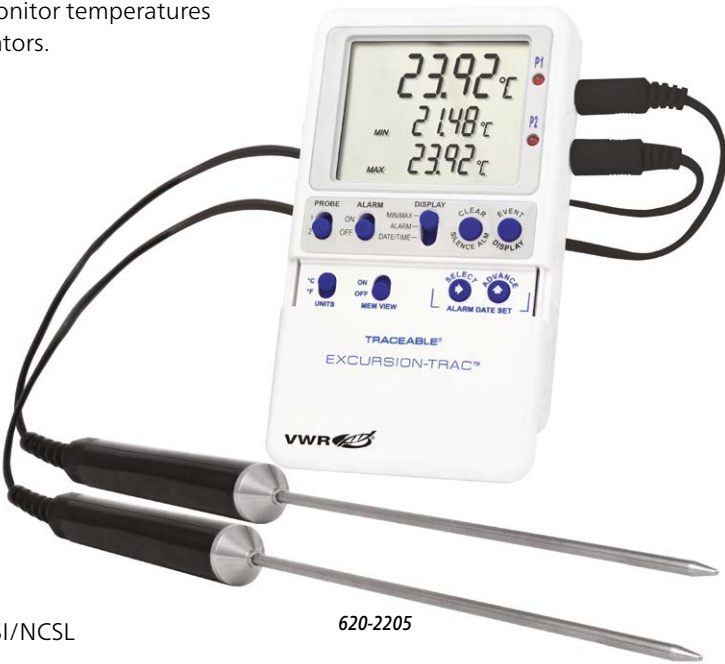
Description	Range (°C)	Accuracy (°C)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Temperature chart recorder, 10 days	-28...+38	±1,0	146x98x63	283	1	620-1667
Temperature chart recorder, 40 days	-28...+38	±1,0	146x98x63	283	1	620-1668

Data logging throughout thermometers, Traceable® excursion trac



These highly accurate logging thermometers are designed to monitor temperatures in refrigerators, freezers, water baths, heating blocks and incubators.

- High/low alarms and time stamps
- User-defined time intervals from 1 minute to 24 hours
- 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 remains in use while downloading and analysing data
- Status indicators: Low battery, full memory, USB data transfer and active alarm state



Traceable to NIST. Calibration complies with ISO/IEC 17025, ANSI/NC SL Z540-1 and 9001.

Supplied with individually numbered Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Weight (g)	Probe	Pk	Cat. No.
-50...+70	±0,25	0,01	70x20x107	140	1 bottle	1	620-2204
-50...+70	±0,25	0,01	70x20x107	140	2 bottles	1	620-2205
-50...+70	±0,25	0,01	70x20x107	140	1 bullet	1	620-2206
-50...+70	±0,25	0,01	70x20x107	140	2 bullets	1	620-2207
-50...+70	±0,25	0,01	70x20x107	140	1 bottle/1 bullet	1	620-2208
-50...+70	±0,25	0,01	70x20x107	140	1 stainless steel	1	620-2209
-50...+70	±0,25	0,01	70x20x107	140	2 stainless steel	1	620-2210

Digital datalogging thermometer, refrigerator and freezer, Traceable® memory loc



Datalogging thermometer that can be used in 21 CFR 11 environments. Ideal for monitoring temperatures in refrigerators, freezers, water baths, heating blocks and incubators.



- Features like min./max. and current temperatures, smart alarm, °F/°C switchable
- Smart alarm features a visual/audible alarm that continues to alarm even if the unit returns to non alarm conditions
- Capable of storing over 1 million temperature observations and 10 unique alarm events
- Triple-display simultaneously shows min./max. and current temperatures, °F/°C switchable
- Status indicators: Low battery, low memory, USB data transfer and active alarm state

Hi/Lo alarms and time/date stamps: Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts and flashing LCD segments. Data for up to 10 different alarm events can be retrieved with the most current event viewable on the display.

USB data transferring: All new feature allows recorded data (CSV file) to be transferred from thermometer to PC (or Mac) using a USB flash drive (not included). No software is needed for computer interface. Each thermometer has a unique ID allowing multiple units to be used in the same location. Raw data on unit cannot be overwritten or modified.

To ensure accuracy, all Traceable® thermometers are provided with a multi-point individually serial numbered Traceable® certificate provided by an ISO/IEC 17025 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Supplied with batteries, 3 metre cable, magnetic strips, VELCRO® material, bench stand and Traceable® certificate. Unit comes with four extra batteries and a full 2 year calibration certificate.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-50...+70	±0,25	0,01	1 bottle probe and 1 bullet probe	3	70x108x19	142	1	620-2426

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Data logging ULT freezer thermometers, Traceable®, excursion trac



Data logging thermometers with user-defined timing intervals. Ideal for monitoring ultra-low temperature freezers.



620-2440

- Simultaneously display minimum, maximum and current temperatures, °F/°C switchable
- Rolling memory structure, maintains the most recent 525 600 temperature observations and 10 unique alarm events
- Recorded data (CSV file) may be transferred from thermometer to PC or Mac using a USB flash drive - no additional software is needed
- Memory can be cleared on unit after downloading data to USB stick
- 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 and active alarm state
- Includes 24,5 cm PTFE cable
- Hassle-free retrieval of data - unit can remain in use while downloading and analysing data

Thermometer is calibrated at multiple points (–80; –40; 0 and +100 °C) and comes standard with an individually serialised and certified Traceable® calibration certificate from an ISO/IEC 17025 calibration laboratory accredited by A2LA.

Supplied with stand, batteries, VELCRO®, magnetic strips, wall mount and Traceable® certificate.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
Excursion trac data logging ULT freezer thermometer, 1 channel	–90...+105	±0,2	0,01	Platinum RTD sensor, stainless steel 316 probe (included)	70x20x107	140	1	620-2440
Excursion trac data logging ULT freezer thermometer, 2 channels	–90...+105	±0,2	0,01	Platinum RTD sensor, stainless steel 316 probe (included)	70x20x107	140	1	620-2441
Excursion trac USB data logging refrigerator/freezer thermometer	–50...+70	±0,2	0,01	1 plastic bottle designed for refrigerator/freezer	70x20x107	140	1	620-2444
Excursion trac USB data logging refrigerator/freezer thermometer	–50...+70	±0,2	0,01	2 plastic bottles designed for refrigerator/freezer	70x20x107	140	1	620-2445

Traceable® memory loc USB data logging refrigerator/freezer thermometers



Data logging thermometer with user-defined time intervals. Ideal for monitoring temperatures in refrigerators, freezers, water baths, heating blocks and incubators.

- User-defined data logging interval of one observation/minute to one observation/24 hours
- Rolling memory structure, maintains most recent 525 600 temperature observations
- Smart alarm features a visual/audible alarm that continues to alarm even if the unit returns to non alarm conditions
- Stores up to 10 unique alarm events
- Memory can be cleared on unit after downloading data to USB stick
- Hassle-free retrieval of data - unit can remain in use while downloading and analysing data
- Status indicators: Low battery, memory full, USB data transfer and active alarm state
- Recorded data (CSV file) to be transferred from thermometer to PC or Mac using a USB flash drive (not included)
- High impact, chemical resistant ABS plastic case

CE marked. Meets current CDC requirements for vaccine storage and monitoring. Certified and Traceable® to NIST

Delivered with platinum RTD sensors, stainless steel 316 probe(s), stand, VELCRO®, magnetic strips, wall mount, Traceable® certificate and batteries.



Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Cable length (m)	Weight (g)	Pk	Cat. No.
–90...80	±0,1	0,01	Platinum RTD sensors, 1 stainless steel 316 probe	3	142	1	620-2442
–90...80	±0,1	0,01	Platinum RTD sensors, 2 stainless steel 316 probes	3	142	1	620-2443

Liquid nitrogen USB data logging thermometers, Traceable® excursion trac



These USB Traceable® excursion trac LN₂ data logging thermometers monitor the temperature in the liquid nitrogen Dewars, covering cryogenic needs for sensitive, irreplaceable biological samples.



- Memory capacity of 525 500 temperature observations
- Four calibration points: –196; –80; 0 and +100 °C
- Monitor readings overnight, at the weekend, or for any time period with rolling data log
- User-defined data logging interval of 1 observation/minute to 1 observation/24 hours
- Memory capacity maintains a year of recorded data when using 1 minute intervals and longer when using larger intervals
- Status indicators: Low battery, memory full, USB data transfer and active alarm state

Hi/Lo alarms and time/date stamps: Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts and flashing LCD segments. Data for up to 10 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals 'out of range' conditions: When an 'out of range' condition is sensed, the smart alarm triggers. Smart alarm features visual and audible indicators which continuously signals until acknowledged, even if the parameter returns to the non alarm range.

USB data transfer: This liquid nitrogen temperature monitor allows recorded data, in a CSV format, to be transferred from the thermometer to PC/Mac with a USB flash drive (not included). Specific software is not needed for this thermometer. Each device has a unique ID that allows multiple units to be used in the same location.

Multi-point calibration on an individually numbered Traceable® certificate which ensures 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 recognised national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Supplied with stainless steel probe(s), stand, VELCRO®, magnetic strips, wall mount, Traceable® certificate and batteries.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Weight (g)	Pk	Cat. No.
USB data logging liquid nitrogen Traceable® excursion trac thermometer, with 1 probe	–200...105	±0,25	0,01	1 stainless steel	141,74	1	620-2633
USB data logging liquid nitrogen Traceable® excursion trac thermometer, with 2 probes	–200...105	±0,25	0,01	2 stainless steel	141,74	1	620-2634



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Liquid nitrogen USB data logging thermometers,
Traceable® memory loc



These USB Traceable® memory loc LN₂ data logging thermometers monitor the temperature in the liquid nitrogen Dewars, covering cryo needs for sensitive, irreplaceable biological samples. These devices can be used in 21 CFR 11 environments.



- Memory capacity of over one million temperature observations
- Raw data is locked and may not be cleared/changed on base units; unable to delete data from memory once stored
- Four calibration points: -196 °C; - 80 °C; 0 °C and 100 °C
- Monitor readings overnight, at the weekend, or for any time period with rolling data log
- User-defined data logging interval of one observation/minute to one observation/24 hours
- Memory capacity maintains a year of recorded data when using 1 minute intervals and longer when using larger intervals
- Status indicators: Low battery, memory full, USB data transfer and active alarm state

Hi/Lo alarms and time/date stamps: Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts and flashing LCD segments. Data for up to 10 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals ‘out of range’ conditions: When an ‘out of range’ condition is sensed, the smart alarm triggers. Smart alarm features visual and audible indicators which signal continuously until acknowledged, even if the parameter returns to the non alarm range.



USB data transferring: This liquid nitrogen temperature monitor allows recorded data, in a CSV format, to be transferred from the thermometer to PC/Mac with a USB flash drive (not included). Specific software is not needed for this thermometer. Each device has a unique ID that allows multiple units to be used in the same location.

Multi-point calibration on an individually numbered Traceable® certificate which ensures 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 recognised national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Supplied with stainless steel probe(s), stand, VELCRO®, magnetic strips, wall mount, Traceable® certificate and batteries.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Weight (g)	Pk	Cat. No.
USB data logging liquid nitrogen Traceable® memory loc thermometer, with 1 probe	-200...105	±0,25	0,01	1 stainless steel	141,74	1	620-2635
USB data logging liquid nitrogen Traceable® memory loc thermometer, with 2 probes	-200...105	±0,25	0,01	2 stainless steel	141,74	1	620-2636

Temperature and humidity logger with memory card, Traceable®



This stand-alone data logger records readings on a removable SD card. The card reader (supplied) plugs into any USB computer port for instant report.

- Card reader with USB connector - no software to install
- Display of date, time of day and all sensor readings
- Minimum/maximum features
- Audible and LED alarm sets in 0,1 °C increments
- Four-line readout LCD (H:17 mm)

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

Supplied with 256 MB SD card, USB card reader, magnetic mounting strips, VELCRO®, wall mount, bench stand, three AA batteries, adapter and Traceable® certificate of calibration.



Range	Accuracy	Resolution	WxDxH (mm)	Weight (g)	Pk	Cat. No.
0...50 °C; 0 - 90% RH; -20...+50 °C	±1,0 °C; ±5,0 (20 - 85); ±7,0% RH	0,1 °C; 0,1% RH	110×91×30	200	1	620-1965

Memory card thermometers, Traceable®



Memory card reader (supplied) plugs into any USB port for an instant report. Text report includes date/time of day and sensor readings.

- Captures 5,9 million readings
- Sealed bottle sensor insulated from temperature changes when refrigerator is opened
- Solution in sealed bottle generally recognised as safe by FDA
- Minimum/maximum feature displays highest/lowest readings for any time period
- Alarm (visual and audible) set by the user for high and low values to the nearest 0,1 °C
- Unique four-line display: Temperature of detachable bottle probe, ambient temperature, humidity and time



620-1963

Cable: 2 metres

Traceability provided from ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001 and standards provided by NIST.

Supplied with probe, cable, 256 MB SD memory card, USB memory card reader, magnetic mounting strips, VELCRO®/wall mount/bench stand, three AA batteries, adapter and Traceable® certificate of calibration.



620-1964

Range	Accuracy	Resolution	Probe	WxDxH (mm)	Weight (g)	Pk	Cat. No.
-30...+70 °C	±0,5 (0...25); ±0,6 (25...70); ±1,2 (-30...0; 50...70) °C	0,1 °C	Bottle sensor (25×63 mm)	110×91×30	200	1	620-1963
0...99% RH	±5% RH (at 25 °C); ±7% RH elsewhere	0,1 RH					
-30...+70 °C	±0,5 (0...25); ±0,6 (25...70); ±1,2 (-30...0; 50...70) °C	0,1 °C	Stainless steel (ØxL: 4x25 mm)	110×91×30	200	1	620-1964
0...99% RH	±5% RH (at 25 °C); ±7% RH elsewhere	0,1 RH					

USB data logging DUAL thermo-hygrometer, Traceable® excursion trac



The VWR® Traceable® excursion trac USB data logging DUAL hygrometer monitors temperature and humidity readings in the laboratory with both internal and external sensors.



- Memory capacity of 525 504 observations
- Four calibration points (25 °C and 50% RH for both internal and external sensors)
- Temperature range: 0 to 65 °C (internal sensor), –20 to 70 °C (external sensor)
- Humidity range: 0 to 95% non condensing (internal and external sensor)
- LCD displays current temperature and humidity conditions, along with the minimum and maximum readings for each parameter
- Monitors temperature and humidity readings with user-adjustable logging intervals from 1 minute to 12 hours
- Status indicators: Low battery indication, memory usage in percentage (rounded to 0,1%), days left until memory is full under current logging interval, USB LCD symbol indicates data downloading status, flashing LCD symbols and audio alarms

Hi/Lo alarms and time/date stamps: Unique alarm settings can be programmed for both parameters – humidity and temperature. Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts, and flashing LCD segments. Data for up to 30 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals 'out of range' conditions: When an 'out of range' condition is sensed for either temperature or humidity, the smart alarm triggers. Smart alarm features visual and audible indicators which signal continuously until acknowledged, even if the parameter returns to the non alarm range.

USB data transferring: This data logging hygrometer allows recorded data, in a CSV format, to be transferred from the thermometer to PC/Mac with a USB flash drive (not included). Specific software is not needed for this thermometer and data can be deleted from memory. Each device has a unique ID that allows multiple units to be used in the same location.

Data logging features: Monitor readings overnight, at the weekend, or for any time period with rolling data log. User-defined data logging interval of one observation/minute to one observation/12 hours. Memory capacity maintains approximately a year of recorded data when using 1 minute intervals and longer when using larger intervals.

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

Supplied with stainless steel probe(s), stand, VELCRO®, magnetic strips, wall mount, universal AC adapter, Traceable® certificate and batteries.

* Indicates temperature value

** Indicates humidity value

Description	Accuracy	Resolution	Weight (g)	Pk	Cat. No.
USB data logging DUAL hygrometer, Traceable® excursion trac with ambient sensor (internal and external)	±0,4 °C * ± 3% (5–75 %); ±5%**	0,1 °C * 0,1% **	141,75	1	620-2629

USB data logging DUAL thermo-hygrometer, Traceable® memory loc



The VWR® Traceable® memory loc USB data logging DUAL hygrometer monitors temperature and humidity readings in the laboratory with both internal and external sensors. This device can be used in 21 CFR 11 environments.



- Memory capacity of 688 086 observations
- Data can never be overwritten or cleared on device
- Four calibration points (25 °C and 50% RH for both internal and external sensors)
- Temperature range: 0 to 65 °C (internal sensor), –20 to 70 °C (external sensor)
- Humidity range: 0 to 95% non condensing (internal and external sensor)
- LCD displays current temperature and humidity conditions, along with the minimum and maximum readings for each parameter
- Monitors temperature and humidity readings with user-adjustable logging intervals from 1 minute to 12 hours
- Status indicators: Low battery indication, memory usage in percentage (rounded to 0,1%), days left until memory is full under current logging interval, USB LCD symbol indicates data downloading status, flashing LCD symbols and audio alarms

Hi/Lo alarms and time/date stamps: Unique alarm settings can be programmed for both parameters – humidity and temperature. Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returns back to within range. Alarm state indicators include visual LEDs, audio alerts, and flashing LCD segments. Data for up to 30 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals 'out of range' conditions: When an 'out of range' condition is sensed for either temperature or humidity, the smart alarm triggers. Smart alarm features visual and audible indicators which signal continuously until acknowledged, even if the parameter returns to the non alarm range.

USB data transferring: This data logging hygrometer allows recorded data, in a CSV format, to be transferred from the thermometer to PC/Mac with a USB flash drive (not included). Specific software is not needed for this thermometer and data can be deleted from memory. Each device has a unique ID that allows multiple units to be used in the same location.

Data logging features: Monitor readings overnight, at the weekend, or for any time period with rolling data log. User-defined data logging interval of one observation/minute to one observation/12 hours. Memory capacity maintains approximately a year of recorded data when using 1 minute intervals and longer when using larger intervals.

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

Supplied with stainless steel probe(s), stand, VELCRO®, magnetic strips, wall mount, universal AC adapter, Traceable® certificate and batteries.

* Indicates temperature values

** Indicates humidity values

Description	Accuracy	Resolution	Weight (g)	Pk	Cat. No.
USB data logging DUAL hygrometer, Traceable® memory-loc with ambient sensor (internal and external)	±0,4 °C * ±3% (5 – 75%); ±5%**	0,1 °C * 0,1% **	141,75	1	620-2631

USB data logging barometer, Traceable® excursion trac



The VWR® Traceable® excursion trac USB data logging barometer simultaneously monitors barometric pressure, temperature and humidity.



- Memory capacity of 525 000 temperature observations for barometric pressure, temperature and humidity
- Calibration points: 25 °C for temperature, 50% RH for humidity, and 650 mbar, 850 mbar and 1000 mbar for barometric pressure
- Monitors barometric pressure, temperature and humidity readings with user-adjustable logging interval from 1 minute to 12 hours
- This barometer has altitude compensation to convert local barometric pressure to sea level pressure with the range of –100 to 2500 metres.
- Status indicators: Low battery indication, memory usage in percentage (rounded to 0,1%), days left until memory is full under current logging interval, USB LCD symbol indicates data downloading status, flashing LCD symbols and audio alarms

Hi/Lo alarms and time/date stamps: Unique alarm settings can be programmed for all three parameters – barometric pressure, humidity and temperature. Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts and flashing LCD segments. Data for up to 30 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals 'out of range' conditions: When an 'out of range' condition is sensed for barometric pressure, temperature or humidity, the smart alarm triggers. Smart alarm features visual and audible indicators which signal continuously until acknowledged, even if the parameter returns to the non alarm range.

USB data transferring: This data logging barometer allows recorded data, in a CSV format, to be transferred from the device to a PC/ Mac with a USB flash drive (not included). Specific software is not needed and data can be deleted from memory. Each device has a unique ID that allows multiple units to be used in the same location.

Data logging features: Monitor readings overnight, at the weekend, or for any time period with rolling data log. User-defined data logging interval of one observation/minute to one observation/12 hours. Memory capacity maintains approximately a year of recorded data when using 1 minute intervals and longer when using larger intervals. The LCD details the current barometric pressure, temperature and humidity readings, along with the minimum and maximum readings for all three parameters.

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

Supplied with stand, VELCRO®, magnetic strips, wall mount, universal AC adapter, Traceable® certificate and batteries.

* Indicates barometric pressure value

** Indicates temperature value

*** Indicates humidity value

Description	Range	Accuracy	Resolution	Weight (g)	Pk	Cat. No.
USB data logging barometer, Traceable® excursion trac	500 - 1030 mbar* 0 - 65 °C ** 0 - 75% ***	±0,4 mbar* ±0,4 °C** ±3% (5 – 75%); ±5%***	1 mbar * 0,1 °C ** 0,1% ***	141,75	1	620-2630

USB data logging barometer, Traceable® memory loc



The VWR® Traceable® memory loc, USB, data logging barometer simultaneously monitors barometric pressure, temperature and humidity. This device can be used in 21 CFR 11 environments.



- Memory capacity of 819 150 temperature observations for barometric pressure, temperature and humidity
- Raw data is locked and may not be cleared/changed on the base unit; unable to delete data from memory once stored
- Calibration points: 25 °C for temperature, 50% RH for humidity, and 650 mbar, 850 mbar and 1000 mbar for barometric pressure
- Monitors barometric pressure, temperature and humidity readings with user-adjustable logging interval from 1 minute to 12 hours
- This barometer has altitude compensation to convert local barometric pressure to sea level pressure with the range of –100 to 2500 metres.
- Status indicators: Low battery indication, memory usage in percentage (rounded to 0,1%), days left until memory is full under current logging interval, USB LCD symbol indicates data downloading status, flashing LCD symbols and audio alarms

Hi/Lo alarms and time/date stamps: Unique alarm settings can be programmed for all three parameters – barometric pressure, humidity and temperature. Alarm tracking feature stores in memory each alarm event detailing when the alarm state occurred, as well as when the unit returned back to within range. Alarm state indicators include visual LEDs, audio alerts and flashing LCD segments. Data for up to 30 different alarm events can be retrieved with the most current event viewable on the display.

Smart alarm signals 'out of range' conditions: When an 'out of range' condition is sensed for barometric pressure, temperature or humidity, the smart alarm triggers. Smart alarm features visual and audible indicators which signal continuously until acknowledged, even if the parameter returns to the non alarm range.

USB data transferring: This data logging barometer allows recorded data, in a CSV format, to be transferred from the device to a PC/ Mac with a USB flash drive (not included). Specific software is not needed and data can be deleted from memory. Each device has a unique ID that allows multiple units to be used in the same location.

Data logging features: Monitor readings overnight, at the weekend, or for any time period with rolling data log. User-defined data logging interval of one observation/minute to one observation/12 hours. Memory capacity maintains approximately a year of recorded data when using 1 minute intervals and longer when using larger intervals. The LCD details the current barometric pressure, temperature and humidity readings, along with the minimum and maximum readings for all three parameters.

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

Supplied with stand, VELCRO®, magnetic strips, wall mount, universal AC adapter, Traceable® certificate and batteries.

* Indicates barometric pressure value

** Indicates temperature value

*** Indicates humidity value

Description	Range	Accuracy	Resolution	Weight (g)	Pk	Cat. No.
USB data logging barometer, Traceable® memory loc	500 - 1030 mbar* 0 - 65 °C ** 0 - 95% ***	±0,4 mbar * ±0,4 °C ** ± 3% (5 – 75%); ±5%***	1 mbar * 0,1 °C ** 0,1% ***	141,75	1	620-2632

Temperature and humidity logger, Traceable®, logger trac



These loggers travel with shipments to track relative humidity and temperature. For complete flexibility, the user-defined recording interval may be set based on the number of desired days to log (from 4 hours to 365 days) or the desired time interval (from every 2 seconds to every 24 hours). To insure that no data is lost, once memory is full the thermometer/hygrometer will stop logging data (data will not be overwritten).

- User-selectable humidity/temperature parameters (high and low values) in 1,0% or 1,0 °C increments
- Displays cumulative alarm duration
- Current RH and temperature, minimum/maximum temperature achieved, cumulative running time



ISO/IEC 17025 calibration laboratory accredited by A2LA indicating traceability to NIST.

Starter kit includes Traceable® logger trac logger, data capture cable, MaxiThermal software package, battery and Traceable® certificate of calibration.

Model	Logger trac
Range	-30...+72 °C 0 – 100% rF
Accuracy	±0,2 (0...10); ±0,5 °C; ±3,0 (25 - 75)% RH
Resolution	0,1 °C; 0,1% rF
WxDxH (mm)	88,9x50,8x27,9
Weight (g)	69,5

Description	Memory	Pk	Cat. No.
Starter kit, logger trac	30720 values	1	620-2325
Logger, logger trac	30720 values	1	620-2326

Bluetooth® temperature and humidity loggers

These data logger are available with or without hygrometer, recording temperature or temperature and humidity data for 30 days. Hourly data recorded for current 7 days, then maximum and minimum temperatures or temperatures and humidity are recorded for next 23 days.

- Monitor critical environments without a physical connection; maximum signal distance is approx. 40 m
- Alarm sounds if temperature falls outside of the set parameters
- Data viewable as a chart or graph, or on a calendar; data from up to six data loggers can be plotted on one graph for direct comparison
- Indicators include WBGT (Wet Bulb Global Temperature), Heat, Mold and Comfort indices as well as memory full, active alarm state and low battery
- Features all-weather housing with internal temperature sensor and humidity sensor

Conforms to ROHS compliance and CE marked.

Supplied with Certificate of Compliance indicating accuracy for four temperature points or four temperature and three humidity points, two AAA batteries, and multi-language (English, French, German, Italian, Portuguese and Spanish) instructions.



Description	Range	Accuracy	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
Temperature datalogger	-10...+50 (°C)	±1 °C (0...40) ±2 °C (>40)	0,1	60x85x20	1	620-2463
Temperature and humidity datalogger	-10...+50 (°C) 10 - 99% (RH)	±1 °C (0...40) ±2 °C (>40) ±5% (50 - 80) RH ±8% (>80) RH	0,1	60x85x20	1	620-2464

Temperature logger, Traceable® logger trac

This temperature logger can display, record and report data during storage, handling and transportation of products.



- Reusable device with active LCD for cumulative duration of temperature excursion from user-selected minimum/maximum values to be viewed immediately and downloaded if needed
- LCD display shows the running alarm tally based on the acceptable temperature range and recording interval: Alarm tally is incremented when reading goes outside acceptable parameters during recording interval
- Once an alarm condition has occurred, an 'ALARM' notification appears on the display: If too many alarm events occur within pre-set parameters 'QUARANTINE' will appear
- Pre-programmed with alarm values of 2 and 8 °C and a recording interval to allow for 30 days of recording

- For complete flexibility, temperature alarm can be modified between –35 and +50 °C and time intervals from every 2 seconds to every 24 hours
- Internal flash memory stores 7680 readings
- To ensure that no data is lost, once the memory is full the thermometer will stop logging data (data will not be overwritten)

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1 and 9001, accredited by A2LA indicates traceability to standards provided by NIST.

Starter kit includes logger, cradle/cable, MaxiThermal software package, battery and Traceable® certificate of calibration.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Memory	Pk	Cat. No.
Starter kit	–35...+50	±0,2 (0...10); 1,0	0,1	7680 values	1	620-2322
Logger (only) with Traceable® certificate of calibration	–35...+50	±0,2 (0...10); 1,0	0,1	7680 values	1	620-2324

Description	Pk	Cat. No.
Accessories		
Paper sleeves	100	620-2323

Room climate monitor, AM 100

This device measures and displays the air temperature and humidity as well as the CO₂ concentration simultaneously.

- Three different LEDs (green, yellow, red) indicate the CO₂ value in the air as good, medium or bad
- Acoustic alarm when CO₂ limit is exceeded
- Helps to improve room climate and prevent mould formation
- Large LCD with backlight for easy reading in the dark
- MUTE button for alarm on/off
- For bench top or wall mounting



This smart, compact and easy to use device was designed to help people taking care of Indoor Air Quality. The AM 100 can be widely used in office buildings, schools, exhibition halls, shopping malls, meeting rooms, fitness centres, restaurants and other public places where personal comfort and a healthy environment is important.

Supplied with AC/DC adapter and factory calibration certificate.

Description	Range	Weight (g)	Pk	Cat. No.
Room climate monitor, AM 100	0...+50 °C / 20 - 90% rH / 0 - 3000 ppm (CO ₂)	200	1	620-2624



Weather station

This weather station is designed for use in agriculture, offices and universities. Snooze alarm, moon phase display, dual scale thermometer (°C/°F) for indoor and outdoor temperature readings, humidity display, maximum/minimum memory for temperature, calendar and digital quartz clock.

- Two metre cable for outdoor temperature measurements
- Displays indoor and outdoor temperature
- Wall or desk mount

W×H: 81×177 mm

Weight: 270 g

Compliant with RoHS.

Supplied with two AAA batteries.

Range	Accuracy (°C)	Pk	Cat. No.
-20...+65 °C; 20 - 90% RH	±1,0; ±2,0 (0...5; 41...50)	1	620-2120



Weather station

This weather station is designed for use in agriculture, offices and universities. It includes an internal temperature sensor.

- Dual-scale and maximum/minimum memory
- Programmable temperature-alert setting with calendar
- RF 433 MHz, maximum 30 metre range for remote sensor, wireless thermometer links up to three remote sensors

W×H: 76,2×191 mm

Weight: 363 g

Supplied with remote sensor, two AA and two AAA batteries plus wall or desk mount.

Range (°C)	Accuracy (°C)	Pk	Cat. No.
0...50; -50...+70	±1,0 (0...40) °C ±2,0 (-50...0; 40...70)	1	620-0906



Weather station, Pro

Calendar up to the year 2050 with date and day of week in seven languages (English, German, French, Italian, Spanish, Dutch and Danish), 12-/24-hour selectable time with snooze alarm, moon phase and animation weather forecast.

- Comfortable index icons
- Links up to three remote modules (maximum distance 30 metres)
- Dual display to show the temperature of the main unit and one external sensor

W×H: 117×193 mm

Compliant with RoHS.

Supplied with batteries.

Range	Accuracy (°C)	Pk	Cat. No.
0...50 °C (In); -20...+60 °C (Ex); 20 - 90% RH	±1,5	1	620-2127

Description	Pk	Cat. No.
Probe		
Wireless sensor for weather stations 620-2127 and 620-2128	1	620-2147



620-2128

Weather station, Ultimate

This weather station features a perpetual calendar up to year 2099 with date, 12-/24-hour selectable time with snooze alarm, moon phase, tide indicator, sunset and sunrise times, barometric pressure, animated weather forecast, maximum/minimum memory for hygro-thermometer. RF wireless hygro-thermometer links up to three remote sensors.

- Easy to read icons
- Pressure bar chart, history and trend indicator
- Indoor and outdoor thermo-hygrometer with trend indicator

WxH: 127x201 mm

Compliant with RoHS. Traceable to standard from NIST. Conforms to ISO/IEC 17025:2005.

Supplied with remote sensor incl. batteries and two AA batteries for the main unit.

Range	Accuracy (°C)	Pk	Cat. No.
0...50 °C (in); -20...+60 °C (ex); 20 - 90% RH	±1,5	1	620-2128

Description	Pk	Cat. No.
Probe		
Wireless sensor for weather stations 620-2127 and 620-2128	1	620-2147



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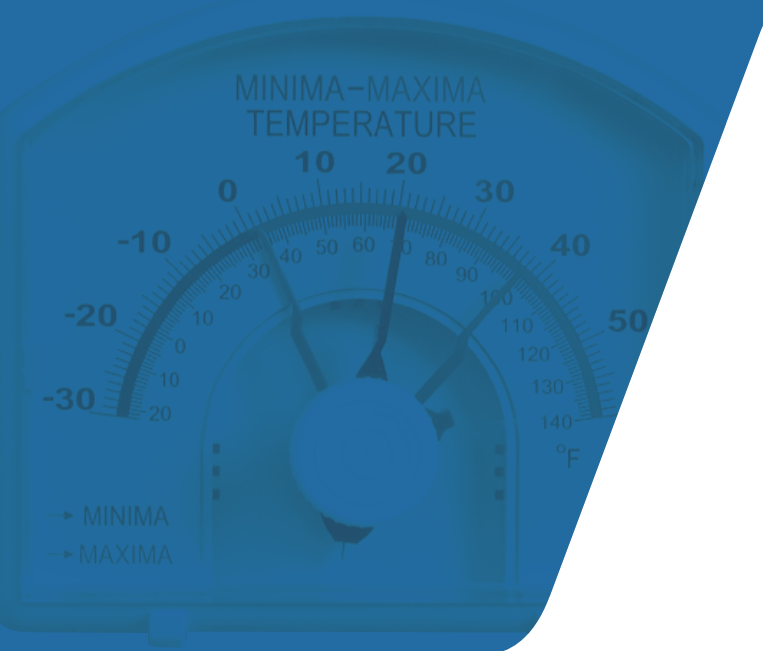
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