

## VWR® FOR TEMPERATURE MEASUREMENT AND RECORDING

Glass, metal and plastic  
thermometers

Temperature indicating strips

Digital thermometers and  
thermo-hygrometers

Chart recorders and  
dataloggers

Barometers and  
weather stations

**Safe, reliable and accurate**

# 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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## ASSURED ACCURACY FOR YOUR THERMOMETERS & DATALOGGERS



Reliable and accurate measurements are essential for maintaining the quality standards you want in laboratory research, quality control or production processes.

We can help you rely on the results of your measurements - our fast, efficient and competitive service examines, reports on and calibrates your instruments.

For all brands and models

- Approved quality standards
- Detailed process documentation
- ISO 17025: 2005 calibration certificate
- Due time reminder system for regular re-calibration
- Temperature with humidity calibration

### Our accredited calibration and repair service

Before calibration, all instruments are examined and checked to confirm they are free from any defects.

Then In our ISO 17025 accredited calibration facility we calibrate and adjust all brands of temperature devices like thermometers, dataloggers, recorders, liquid in glass thermometers and temperature sensors.

All calibration services are **direct traceable to a National Measurement Standard** or can be certified with ISO 17025:2005 accreditation.

If the instrument is beyond economic repair we offer a full range of replacement items from our extensive range.

### Want to know more?

Please contact your local VWR service organisation or e-mail [technical.services@eu.vwr.com](mailto:technical.services@eu.vwr.com) to find out how we can help you to be sure.



## Environmentally friendly certified thermometer, Enviro-Safe®



### Enviro-Safe® liquid

This environmentally safe thermometer is made with a 100% non toxic, non hazardous and biodegradable liquid. It is suitable for use in the chemical industry, universities, scientific institutions, food and beverage processing, petrochemical, pharmaceutical and medical industries, manufacturers, dairies, breweries and distilleries.

- Lead-free glass
- Accuracy equal to similar mercury filled thermometers
- Individual serial numbers

Traceable to NIST/DAkKS.

**Packaging:** Supplied with a calibration report and individually protected in Safety-Pak® packaging.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
-1...+61	±1,0	0,1	420	76	1	620-0801



## Environmentally friendly thermometers, Enviro-Safe®



### Enviro-Safe® liquid

These thermometers are made with a 100% non toxic, non hazardous, biodegradable liquid. Easy to read, thanks to a high contrast green against white back.

- Lead-free glass
- Individual serial numbers
- Accuracy without any of the hazards of mercury

Traceable NIST/DAkKS. Envirokleen™ certified by ChemTel, an independent laboratory.

**Delivery information:** Supplied with a statement of accuracy in SafetyPak® packaging.

Range (°C)	Accuracy (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
<b>Partial immersion</b>					
-10...+110	±1,0	200	50	1	620-0880
-10...+150	±1,0 (1,5>105)	200	50	1	620-0882
-20...+110	±1,0	305	76	1	620-0831
-20...+150	±1,0 (1,5>105)	305	76	1	620-0832
-10...+260	±1,0 (1,5>105)	355	76	1	620-0834
<b>Total immersion</b>					
-10...+110	±1,0	200	Total	1	620-0881
-10...+150	±1,0 (1,5>105)	200	Total	1	620-0883
-20...+110	±1,0	305	Total	1	620-0836
-20...+150	±1,0 (1,5>105)	305	Total	1	620-0835
-10...+225	±1,0 (1,5>105; 2,0>200)	355	Total	1	620-0833



## Environmentally friendly thermometers, Easy-Read®



### Enviro-Safe® liquid

These thermometers are easy to read quickly and accurately due to the high contrast black numbering against a yellow background.

- Individual serial numbers - except pocket thermometers
- Eliminates reading errors
- Non toxic, non hazardous, biodegradable liquid

Traceable NIST/DAkKS. Envirokleen™ certified by ChemTel, an independent laboratory.

**Delivery information:** Supplied in individually protected Safety-Pak® packaging with statement of accuracy.



Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
<b>Partial immersion</b>						
-10...+150	±1,0	1,0	200	50	1	620-0781
-10...+110	±1,0	1,0	200	50	1	620-0783
-10...+260	±1,0 (1,5>105; 2,0>200)	1,0	355	76	1	620-0784
-20...+150	±1,0	1,0	305	76	1	620-0786
-20...+110	±1,0 (1,5>105)	1,0	305	76	1	620-0788
<b>Total immersion models</b>						
-10...+110	±1,0	1,0	200	Total	1	620-0782
-10...+225	±1,0	1,0	355	Total	1	620-0785
-20...+150	±1,0 (1,5>105)	1,0	305	Total	1	620-0787
-20...+110	±1,0	1,0	305	Total	1	620-0789
<b>Pocket models</b>						
-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



## Environmentally friendly thermometers, Easy-Read®



### Enviro-Safe® liquid

These thermometers are easy to read quickly and accurately due to the high contrast black numbering against a yellow background. Numbers are printed larger than on a standard thermometer.

- Eliminate reading errors
- Individual serial numbers
- Non toxic, non hazardous, biodegradable liquid

Traceable to NIST/DAKKS.

**Delivery information:** Supplied with Traceable® calibration report and deluxe storage box. Individually protected in Safety-Pak® packaging.

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



## FRIO-Temp® precision thermometers



620-0800

### Enviro-Safe® liquid or red spirit

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

- Enviro-Safe® non toxic and biodegradable liquid
- Individual serial number
- Wide choice

Traceable to NIST/DAKKS.

**Delivery information:** Supplied with statement of accuracy plus Velcro® and magnetic attachments.

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Pk	Cat. No.
<b>Enviro-Safe®</b>						
For freezers	-30...0	±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	±2,0	2,0; 3,0 (> 130)	145	1	620-0852

Description	Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Pk	Cat. No.
<b>Red spirit</b>						
For ultra-low freezers	-90...+20	±1,0	1,0; 2,0 (<-50)	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

## FRIO-Temp® precision thermometers



### Black spirit

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.

- Very accurate
- No hazard of mercury
- Individual serial number

Traceable to NIST/DAKKS.

**Delivery information:** Supplied with a statement of accuracy 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	±0,5	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	±0,2	0,1	200	1	620-0841

## FRIO-Temp® precision thermometers



620-0942

### Black spirit

These thermometers are designed for applications in freezers, refrigerators, incubators, ovens and blood banks. To use, simply screw thermometer with cap into bottle and attach to test sample.

- Very accurate
- No hazard of mercury
- Individual serial number

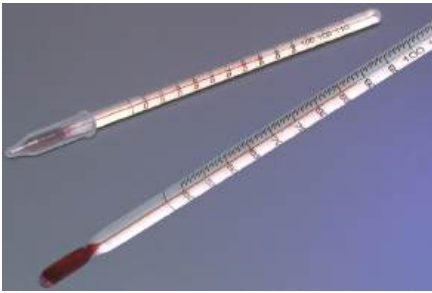
Traceable to NIST/DAKKS.

**Delivery information:** Supplied with a statement of accuracy plus Velcro® and magnetic attachments.

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



## General purpose thermometers



Designed for use in all standard heating and drying blocks, water baths, incubators. These thermometers include a glass bead filled microtube.

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

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Filling	Pk	Cat. No.
<b>Standard coating</b>							
24...57	±1,0	0,5	175	35	Enviro-Safe®	1	620-0790
0...110	±2,0	1,0	225	35	Red spirit	1	620-0821
0...100	±2,0	1,0	225	35	Red spirit	1	620-0891
<b>PTFE coating</b>							
24...57	±1,0	0,5	175	35	Enviro-Safe®	1	620-0791
18...60	±1,0	0,5	125	35	Blue spirit	1	620-0814
50...110	±1,0	0,5	150	35	Blue spirit	1	620-0815
0...100	±2,0	1,0	225	35	Red spirit	1	620-0822

## General purpose thermometers



### Red spirit

These 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 is broken.

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

## General purpose thermometers



These thermometers with PTFE coating help preventing liquid and glass contamination.

- High stability
- Individual serial numbers
- Glass bulge in body holds thermometer in place

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
<b>Standard coating</b>						
20...100	±1,0	1,0	305	76	1	620-0816
0...80	±1,0	0,5	250	100	1	620-0817
25; 30; 37; 56	±1,0	0,5	240	76	1	620-0818
0...70	±1,0	1,0	305	150	1	620-0889
<b>PTFE coating</b>						
20...100	±1,0	1,0	305	76	1	620-0887
0...80	±0,5	1,0	250	100	1	620-0888
0...70	±1,0	1,0	305	150	1	620-0890

## Blood bank thermometer



### Red spirit

This thermometer has been designed to indicate critical temperature range. The critical temperature range from 4 to 6 °C is marked with arrows.

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

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth	Pk	Cat. No.
-5...+20	±1,0	1,0	152	Total	1	620-0892

## General purpose thermometers



### Organic liquid

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

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

**Packaging:** Individually protected in Safety-Pak™.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
-50...+50	±2,0	1,0	305	305	1	620-1927
-50...+50	±2,0	1,0	305	305	1	620-1928
-100...+50	±2,0	1,0	305	76	1	620-0860
-100...+50	±2,0	1,0	305	Total	1	620-0858
-200...+30	±2,0	1,0	350	Total	1	620-0857

## Precision thermometers



### Red spirit

These glass thermometers are individually calibrated.

- Partial or total immersion
- White back glass
- Permanent scale embedded in the glass

Compliant with ANSI/SAMA Z236.1-1983.

**Packaging:** Individually protected in Safety-Pak™.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
-35...+50	±1,5	1,0	305	76	1	620-0803
-35...+50	±1,5	1,0	305	Total	1	620-0804
-20...+110	±1,5	1,0	305	76	1	620-0864
-20...+110	±1,5	1,0	305	Total	1	620-0862
-20...+150	±1,5	1,0	305	76	1	620-0865
-20...+150	±1,5	1,0	305	Total	1	620-0863
-10...+200	±1,5	1,0	305	Total	1	620-0884

## Precision thermometers



### Blue organic liquid

These glass thermometers feature guaranteed accuracy.

- Fractional degrees
- White background
- Individual serial numbers

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

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	±0,3	0,1	460	Total	1	620-0806
-1...+101	±1,0	0,1	610	76	1	620-0897
-1...+101	±0,3	0,1	610	Total	1	620-0807
-1...+201	±1,0 (1,5 >100)	0,1	610	76	1	620-0805
-1...+201	±0,4 (0,5 >100)	0,2	610	Total	1	620-0808

## Precision thermometers



### Red spirit

These thermometers are graduated with fractional degrees.

- Fused markings
- White back glass
- Individual serial numbers

Traceable to NIST/DAKKS.

**Delivery information:** Supplied with laminated report containing individual temperature point corrections and storage box.

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



## Environmentally friendly thermometers, Double-Safe™



### Enviro-Safe® liquid

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.

- Individual serial numbers
- Non toxic, non hazardous, biodegradable liquid
- PTFE coating to prevent any contamination of liquid or glass

Traceable to NIST/DAKKS.

**Delivery information:** Supplied with a statement of accuracy indicating accuracy traceability and individually protected in Safety-Pak® packaging.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Immersion depth (mm)	Pk	Cat. No.
<b>Partial immersion</b>						
-20...+110	±1,0	1,0	305	76	1	620-0793
-20...+150	±1,0 (1,5 >105)	1,0	305	76	1	620-0795
-10...+110	±1,0	1,0	200	50	1	620-0796
-10...+150	±1,0 (1,5 >105)	1,0	200	50	1	620-0798
<b>Total immersion</b>						
-20...+110	±1,0	1,0	305	Total	1	620-0792
-20...+150	±1,0 (1,5 >105)	1,0	305	Total	1	620-0794
-10...+110	±1,0	1,0	200	Total	1	620-0797
-10...+150	±1,0 (1,5 >105)	1,0	200	Total	1	620-0799

## Pocket thermometers



### Red spirit

These glass thermometers have a PTFE coating that helps to prevent contamination and contains liquid and glass in the event of breakage.

- Bulbous glass body
- Total immersion
- Individual serial number

**Delivery information:** Supplied with a plastic window case.

Range (°C)	Accuracy (°C)	Division (°C)	Length (mm)	Pk	Cat. No.
-15...+105	±1,0	1,0	152	1	620-0820
-35...+50	±1,0	1,0	160	1	620-0853
-10...+110	±1,0	1,0	160	1	620-0810
-5...+45	±1,0	0,5	160	1	620-0809

## Dial thermometers



### Stainless steel probe

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

**Delivery information:** 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.
<b>Ø: 25 mm</b>					
-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
<b>Ø: 44 mm</b>					
-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

**VWR**  **CATALYST**  
We Enable Science Through Services

**Need calibration or mapping for  
your temperature devices?**

Contact us: [technical.services@eu.vwr.com](mailto:technical.services@eu.vwr.com)



## Wall mounted thermometer



### Red spirit

Dual scale thermometer (°C/°F) with completely enclosed bulb for accurate readings. Easy to read on white backed glass.

- Rust-proof case
- Stainless steel hangers
- Enamelled aluminum scale

WxD: 28x124 mm

Range (°C)	Accuracy (°C)	Division (°C)	Pk	Cat. No.
-40...+27	±1,0	1,0	1	620-0876

## Maximum/minimum thermometer



### Plastic

This thermometer features colour coded dual scales on a white background and reset knob for fast and 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 one second
- Self-adhesive and irreversible - eight points
- Storage at maximum 25 °C for up to two 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

**VWR** CATALYST  
We Enable Science Through Services

**Need calibration for thermometers and dataloggers?**

Contact us: [technical.services@eu.vwr.com](mailto:technical.services@eu.vwr.com)



## Micro infrared thermometer, Traceable®



This thermometer captures temperature readings of any liquid, solid and semi-solid surfaces in less than a second. The 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

W×D×H: 63,5×38×13 mm

Weight: 28,3 g

**Delivery information:** Supplied with Traceable® certificate of calibration, soft-touch keys, flip-open stand, keychain and battery for 40 hours of use.

Range (°C)	Accuracy	Resolution (°C)	Pk	Cat. No.
-22...+110	±1,0 (15...40); ±1,5 °C	0,1	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

Tracable to standards from NIST.

Weight: 63 g

W×D×H: 22,5×60×104 mm

**Delivery information:** Supplied with cord and CR2032 battery incl. charge indicator.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-33...+250	±2,0% or ±2,0	0,1	1	620-1260

## Infrared and core thermometer, Traceable®



620-2203

This easy to use infrared and type K thermometer allows the unit to take readings in less than one second.

- Field of view of 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

W×D×H: 178×70×38 mm

**Delivery information:** 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)	Pk	Cat. No.
(IR) -60...+500; (TC) -64...+1400	±1,0 °C or 2,0	0,1	1	620-2203

Description	Range (°C)	Ø×L (mm)	Pk	Cat. No.
<b>Ultra-accurate K-type probes</b>				
Immersion probe with 135 mm plastic handle, 1 m cable and a DIN-SMP connection	-65...+550	1,5×130	1	620-1938
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 deepen frozen goods with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+600	6×130	1	620-1942

## Infrared thermometer, Traceable®



620-1924

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 of 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

WxDxH: 178x95x50 mm

Weight: 255 g

**Delivery information:** 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)	Pk	Cat. No.
(IR) -60...+550; (K) -64...+1400	±2,0% or 2,0	0,1	1	620-1924

## Infrared thermometer, Traceable®



620-2096

### Infrared sensor and K-type beaded probe

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

- Field of view of 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

WxDxH: 197x59x121 mm

Weight: 273 g

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

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



## Infrared thermometer, Traceable®



620-1806

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

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.

- Low battery indicator
- Field of view ratio: 2,5:1
- Current, minimum /maximum temperatures
- Emissivity adjustable from 0,1 to 1,0 (by default 0,95)
- LEDs indicate the HACCP zones: Green under 4 °C and over 60 °C and red light between 4 to 60 °C

WxDxH: 165x38x2,5 mm

Weight: 100 g

**Delivery information:** Supplied with serial numbered NIST Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-55...+330	±0,6; ±0,5* (5...65)	0,2 (-10...+200); 1,0	1	620-1806

## Digital wall mounted thermometer



This compact 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

WxD: 100x215 mm

Compliant with RoHS.

**Delivery information:** Supplied with two AAA batteries.

Range (°C)	Accuracy (%)	Resolution (°C)	Pk	Cat. No.
-10...+50	±1,0	0,1	1	620-1722

## Outdoor thermometer



This window thermometer displays the outdoor temperature instantly.

- Water resistance
- Easy installation
- No wiring

WxH: 44x127 mm

Compliant with RoHS.

**Delivery information:** Supplied individually with batteries and adhesive pads.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-10...+50	±1,0	0,1	1	620-1723

## Digital core thermometer



620-0912

**Stainless steel probe (LxØ: 200x3,5 mm)**

This general purpose thermometer is available in convenient pocket size.

- Automatic switch-off
- Data 'HOLD' function
- Maximum/minimum memory

WxDxH: 190x17x20 mm

Weight: 90 g

RoHS compliant.

**Delivery information:** Supplied with probe cover, pocket clip, LR44 battery and certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	±2,0 (-50...-20; 120...250); ±1,0 (-20...+120); ±3,0 (200...300)	0,1	1	620-0912

## Electronic thermometers



620-2200

**Stainless steel probe (LxØ: 120x4 mm)**

These thermometers are designed for different applications. The penetration probe is suitable for veterinaries. The surface thermometer can be used for cooking.

- Automatic power off (620-2200)

WxD: 190x20 mm

Complies with RoHS and ISO/IEC 17025.

**Delivery information:** Supplied with batteries, cover probe, pocket clip and certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+200	±1,0 (20...120); ±2,0 (-50...-20; 120...200)	0,1	Blunt tip	1	620-2134
-50...+200	±1,0 (20...120); ±2,0 (-50...-20; 120...200)	0,1	Pointed tip	1	620-2200

## Digital thermometers, Traceable® Ultra™



620-2079

### Stainless steel probe (Ø: 3,5 mm)

These thermometers fit into flasks, cuvettes, test tubes and beakers for temperatures reading 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.

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

Weight: < 28 g

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

**Delivery information:** Supplied with one year battery, Traceable® certificate of calibration and protective sleeve.

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

## Core thermometer with timer



### Stainless steel probe (LxØ: 127x4 mm)

This digital thermometer includes a timer function.

- Dual scale (°F/°C)
- Timer up to 99 hours 59 minutes
- High temperature alarm

Compliant with RoHS.

**Delivery information:** Supplied with battery, probe with pocket clip, magnetic attachment and certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	1,0 (-20...+120); 2,0 (-50...-20; 120...200); 4,0 (200...300)	0,1	1	620-1719

## Pocket thermometer, Traceable®



620-2025

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

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

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

Length: 178 mm

Weight: 28,5 g

**Delivery information:** Supplied with protective case, silver oxide battery, probe and Traceable® certificate of calibration.

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

## Waterproof core thermometers



620-0910

**Stainless steel probe (LxØ: 125x4 mm (620-0910), 200x4 mm (620-0914))**

These thermometers are suitable for measurements in food, beverage processing and storage applications, agriculture, education or pharmaceutical use.

- Maximum/minimum memory
- Quick, accurate, easy to read
- Automatic off after 10 minutes of non use

Weight: 68 g

**Delivery information:** Supplied with probe, plastic probe cover, pocket clip, LR44 battery and certificate of calibration (ISO/IEC 17025).

Range (°C)	Accuracy (°C)	Resolution (°C)	WxDxH (mm)	Pk	Cat. No.
-50...+200	±0,5 (-20...+70); ±1,0 (-50...-20; 70...150); ±2,0 > +150	0,1	19x19x209,6	1	620-0910
-50...+280	±0,5 (-20...+70); ±1,0 (70...120); ±2,0 (-50...-20; 120...150)	0,1	19x10x285,8	1	620-0914

## Waterproof thermometers, Traceable® Lollipop™



620-2092

**Stainless steel probe (LxØ: 203x3,5 mm)**

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

WxDxH: 260,3x12,7x44,5 mm

Weight: 25 g

**Delivery information:** Supplied with probe with cover, silver oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	±1,0	0,1 (-20...+200); 1,0 (-50...+300)	1	620-2092
-50...+300	±0,4 (0; 100); ±1,0	0,1 (-20...+200); 1,0 (-50...+300)	1	620-2099

## General purpose thermometer



620-0909

**Stainless steel probe (LxØ: 125x4 mm)**

This waterproof thermometer is suitable for measurements in food and beverage processing, storage applications, agricultural, educational or pharmaceutical use.

- Easy reading
- Quick and accurate
- Automatic Off function after ten minutes of non use

WxDxH: 260,3x12,7x44,5 mm

Weight: 25 g

**Delivery information:** Supplied with probe cover, pocket clip, LR44 battery and certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+150	±1,0 (-20...+120); ±2,0 (-50...-20; 120...200)	0,1	1	620-0909

## Core thermometer



### Stainless steel probe (LxØ: 127x4 mm)

Submersible and waterproof, this thermometer provides rapid response and recalibration feature.

- 'HOLD' function
- Maximum memory function
- Automatic Off function after ten minutes of non use

WxD: 152x360 mm

Compliant to RoHS. Traceable to standards from NIST.

**Delivery information:** Supplied with LR44 battery, probe cover, pocket clip and certificate of calibration.

Range (°C)	Accuracy (°C)	Pk	Cat. No.
-40...+232	0,5 (-40...+82); 2,0 (-40...+54; 82...175); 4,0 (175...232)	1	620-2133

## Digital dial thermometers, Traceable®



620-2024

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

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
- Bright and large LCD for easy reading
- 620-2082 with metal disk (Ø: 12,7 mm) for surface measurements

LxØ: 165x29 mm

Weight: 28 g

**Delivery information:** Supplied with silver oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+150	±1,0	0,1 (-20...+150); 1,0	For surfaces	1	620-2082
-50...+150	±1,0	0,1 (-20...+150); 1,0	For viscous solutions	1	620-2024
-50...+150	±0,3	0,1 (-20...+150); 1,0	For viscous solutions	1	620-2095

## Digital dial thermometers, Traceable® Ultra™



620-1665

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

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

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

Ø: 38 mm

Weight: 32 g

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

**Delivery information:** Supplied with protective case, silver oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	±0,4	0,1	1	620-1665
-50...+300	±1,0	0,1	1	620-2020

### Waterproof thermometer, Traceable®



620-2091

**Stainless steel probe with piercing tip (LxØ: 203x4,8 mm)**

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

WxDxH: 89x25,4x241 mm

Weight: 34 g

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

**Delivery information:** Supplied with probe, silver oxide battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+280	±1,0	0,1 (-20...+200); 1,0	1	620-2091

### Solar powered thermometer



This digital thermometer provides a water resistant body, a waterproof sensor (Ø: 30 mm) with one metre cable. It is also suitable for use in weak light areas.

- Maximum/minimum memory
- Easy mounting bracket

WxD: 114x36 mm

Conforms to RoHS

**Delivery information:** Supplied with back-up battery and certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+70	±1,0	0,1	1	620-1720

### Solar powered thermometers, Traceable®



620-2041

**Internal sensor/external probe sensor (Ø: 4,7 mm) with three meter cable**

These thermometers are always on and run for years powered by light in laboratories or plant. They 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

WxDxH: 70x19x70 mm

Weight: 56,7 mm

**Delivery information:** 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	Pk	Cat. No.
0...50	±1,0	0,1	Internal ambient sensor	1	620-2040
-50...+70	±1,0	0,1	External probe sensor with cable	1	620-2041

## Dishwasher thermometer, Traceable®



620-9100

### Waterproof metal with internal stainless steel sensor

This thermometer insures 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 labs.

- Maximum/minimum values during the dishwashing cycle

Ø: 44,5 mm

Weight: 60 g

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

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

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+150	±1,0	0,1	1	620-9100



## Shockproof thermometer, Traceable® Flip-Stick™



620-2065

### Foldable stainless steel probe (L×Ø: 114×3,5 mm)

This thermometer with a flip-to-open design and a probe may be positioned at any angle. Folded up the probe is protected allowing the thermometer to be carried on a wrist strap or in a pocket.

- Easy reading on the large display with big digits
- 'HOLD' function
- Maximum/minimum memory readings over any time period

W×D×H: 280×16×38 mm

Weight: 60,5 g

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

**Delivery information:** Supplied with battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	±0,3	0,1 (-20...+200); 1,0	1	620-2065

## Digital snap-in thermometer, Traceable®



620-2097

### Stainless steel probe (L×Ø: 70×3,5 mm) with handle and three metre cable

Versatile panel-mount module that snaps into place or is 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

W×D×H: 189×12,7×38 mm

**Delivery information:** Supplied with Traceable® certificate of calibration, probe, cable and battery.

Range	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300 °C	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	1	620-2097

## Digital monitoring thermometer, Traceable®



620-2022

### Internal ambient sensor and external probe sensor (Ø: 4,7 mm) with three metre cable

This ,always-on' thermometer is perfect for monitoring reagents or solutions in tanks, water baths, incubators and refrigerators. The unit displays the ambient temperature and probe temperature at the touch of a button. The external sensor performs accurately in liquid, gas/air and semi-solids.

- Ambient sensor and probe for comparative readings
- LCD updates every 10 seconds: Easy reading even from greater distance
- Velcro® tabs on back to place the unit on ovens, water baths, desiccators, or refrigerators

WxDxH: 82,5x16x57 mm

Weight: 71 g

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

**Delivery information:** Supplied with Traceable® certificate of calibration, probe bracket, Velcro® tabs, flip-open stand for bench use and AAA battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+70	±1,0	0,1	1	620-2022



## High accuracy thermometers, TD 10, 11 and 12



### Stainless steel probe

These thermometers deliver good performance and a high level of accuracy.

- Fast measurement
- Robust and impact resistant
- Single point factory calibration certificate (620-1638, -1639: 0 °C; 620-1640: 100 °C)

WxDxH: 20x90x42 mm

Conform to IEC 584 - IP 55 (620-1638, -1639), IP 40 (620-1640)

**Delivery information:** Supplied with clip holder to carry the thermometer on a belt and a lithium three volt CR 2032 battery for approximately 100 hours when used continuously. 620-1640 should be ordered with an appropriate K type probe.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
TD 10	-50...+350	±0,8	0,1 (-60...+199,9); 1,0 (>200)	T (LxØ: 110x3 mm)	1	620-1639
TD 11	-50...+350	±0,8	0,1 (-60...+199,9); 1,0 (>200)	T (LxØ: 110x3 mm) and cable (100 mm)	1	620-1638
TD 12 (SMP)	-60...+1200	±1,0	0,1 (-60...+199,9); 1,0 (>200)	K	1	620-1640

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Probes</b>				
Penetration probe with handle and 1 m cable, TKS 100	-200...+400	3x130	1	620-1648
Surface probe with paddle, handle and 1 m cable, TKS 200	-200...+400	7x40	1	620-1649
Immersion probe with handle and 1 m cable, TKS 300	-200...+400	3x130	1	620-1650
Penetration probe with handle and 1 m cable, TKS 400	-200...+400	4,7x130	1	620-1651



## Ultra-accurate digital thermometers



These ready to use thermometers are designed for quality management of the temperature with high accuracy. 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

**Delivery information:** Supplied with nine volt battery, certificate of calibration and plastic case (630-1931 only).

Range (°C)	Accuracy (%)	Resolution (°C)	Probe	Pk	Cat. No.
-65...+199	±0,05 % mv; ±0,2	1,0	K with 1 m cable	1	620-1931
-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

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Ultra-accurate K-type probes</b>				
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
<b>Ultra-accurate probes (PT)</b>				
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

## Digital thermometer, Traceable®



620-2021

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

This thermometer is designed to monitor temperatures in food, soils, 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 one minute audible alarm signals an out-of-range condition.

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

WxDxH: 51x13x102 mm

Weight: 85 g

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

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

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+260	±1,0	0,1	1	620-2021

### Digital thermometer with data log memory, Traceable®



620-2094

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

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

WxDxH: 73x25x117 mm

Weight: 113 g

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

**Delivery information:** Supplied with battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+300	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	1	620-2094

### Digital thermometer



620-0917

**Stainless steel probe (LxØ: 125x3,5 mm) and one metre cable**

This digital thermometer allows applications that include measurements for heating, ventilation, air conditioning, food and beverage processing, storage and pharmaceutical use.

- Key tone for operation confirmation
- 'HOLD' and maximum/minimum memory functions

WxDxH: 89x25x178 mm

Weight: 90,7 g

**Delivery information:** Supplied with certificate of calibration, probe, stand and AAA battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+200	±0,5 (-20...+70); ±1,0 (+70...+120); ±2,0 (-50...-20; 120...150)	0,1	1	620-0917

### Water/shockproof thermometers, Traceable®



620-2017

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

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 may be read with a glance

Ø: 44,5 mm

Weight: 57 g

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

**Delivery information:** 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)	Pk	Cat. No.
-50...+300	±1,0	0,1 (-19,9...+199,9); 1,0	1	620-2017
-50...+300	±0,2	0,1 (-19,9...+199,9); 1,0	1	620-2073

## Digital thermometers, Traceable® Full Scale (Plus)



620-2058

### Stainless steel probe (Ø 3,5 mm) and three meter cable

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

Ø: 53,3 mm

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

**Delivery information:** 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)	Pk	Cat. No.
-50...+250	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	1	620-2058
-50...+300	±1,0 (-20...+100)	0,1 (-20...+200); 1,0	1	620-1664
-50...+250	±0,5	0,1 (-20...+200); 1,0	1	620-2064
-50...+300	±0,5	0,1 (-20...+200); 1,0	1	620-2089

## Alarm thermometer with timer, Traceable®



620-1662

### Curved stainless steel probe (Ø×L: 4×215 mm)

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 those applications.

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

W×D×H: 70×76×12,7 mm

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

**Delivery information:** Supplied with Traceable® calibration certificate and AAA battery for one year of use.

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

## Digital thermometers, Traceable® Digital-Bottle™



620-1826

### Waterproof non toxic glycol bottle probe

These thermometers accurately monitor temperatures in freezers, refrigerators, incubators and environmental chambers. Bottle and solution insulate the sensor from transient temperature changes.

- Easy to read digital display
- Maximum/minimum and current temperatures
- Maximum/minimum monitoring for any time period

W×D×H: 56×25×110 mm

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

**Delivery information:** 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)	Pk	Cat. No.
-30...+50	±1,0	0,1	1	620-1826
-30...+50	±0,4 at tested points	0,1	1	620-1862

## Digital refrigerator and freezer thermometers



620-0919

620-2148

### Stainless steel waterproof probe with one metre cable/glass bead bottle

These thermometers allow for measurements in food and beverage processing and storage.

- Timer function
- Dual scale for fridge\*\* and room\* values
- Maximum/minimum temperature memory and alarm setting (buzzer)

WxDxH: 89x20x44 mm (620-0919); 63x64x19 mm (620-2148)

Weight: 68 g (620-0919); 180 g (620-2148)

Traceable to NIST/PTB. Compliant with RoHS.

**Delivery information:** Supplied with certificate of calibration, Velcro® attachment, waterproof sensor, magnetic backing and AA battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-10...+50*; -50...+70**	±1,0	0,1	Waterproof stainless steel	1	620-0919
-10...+50*; -50...+70**	±1,0	0,1	Glass bead bottle	1	620-2148

## Digital thermometers



620-0916

620-0904

### Stainless steel probe (LxØ: 125x4 mm) or glass bead recyclable bottle, with 1,5 metre cable

These thermometers allow for measurements in heating, ventilation, air conditioning, education, food and beverage processing and storage and pharmaceutical use.

- LCD display
- 'HOLD' function
- Maximum/minimum memory

Traceable to NIST. Compliant with RoHS.

WxDxH: 63,5x20x95,3 mm

Weight: 136 g

**Delivery information:** Supplied with certificate of calibration, probe, flip-open desk stand, magnetic attachment and AAA battery. 620-0904 has a unique serial number.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+200	±0,5 (-20...+70); ±1,0 (70...120); ±2,0 (-50...-20; 120...150); ±4,0 (150...200)	0,1	Removable stainless steel	1	620-0916
-50...+200	±0,5 (-20...+70); ±1,0 (70...120); ±2,0 (-50...-20; 120...150); ±4,0 (150...200) °C	0,1	Glass bead recyclable bottle	1	620-0904

Description	Range (°C)	Accuracy (°C)	Length (mm)	Pk	Cat. No.
<b>Thermometer probe</b>					
Replacement probe	-50...+200	±0,5	125	1	620-1666

## Dual thermometer with timer



Stainless steel removable probe

Glass bead bottle probe (23 ml)

### Stainless steel probe (150 mm) or glass bead bottle (23 ml), with 1,5 metre cable

These thermometers are suitable for measurements for heating, ventilation, air conditioning, education, food and beverage processing, storage and pharmaceutical use.

- 'HOLD' function
- Maximum/minimum memory
- Dual display: Time (99 hours 59 minutes) and temperature

WxDxH: 63,5x20x95,3 mm

Weight: 136 g

Traceable to NIST. Compliant to RoHS.

**Delivery information:** Supplied with certificate of calibration, probe, foldaway stand, magnetic backing and AAA battery.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+300	±1,0 (-20...+120); ±2,0 (-50...-20; 120...200); ±3,0 (200...300)	0,1	Removable stainless steel	1	620-0918
-50...+300	±1,0 (-20...+120); ±2,0 (-50...-20; 120...200); ±3,0 (200...300)	0,1	Glass bead bottle (23 ml)	1	620-1724

Description	Pk	Cat. No.
<b>Replacement probes</b>		
Replacement probe for 620-1724	1	620-1754
Replacement probe for 620-0918	1	620-1969

## Dual display thermometers with alarm



620-2149

620-2140

### Waterproof probes or glass bead bottle, with one metre cable

These digital thermometers are ideal for applications in freezers, refrigerators, incubators, ovens and blood banks. They are used in colleges and universities, food industry and hospitals.

- Dual display and two probes for fridge and freezer readings
- Programmable alarm: Light and buzzer with duration counter (99 hours 59 minutes)
- 'HOLD' function and maximum/minimum temperature memory

WxDxH: 135x45x23 mm

Traceable to NIST. Compliant with RoHS.

**Delivery information:** Supplied with probes, foldaway stand, Velcro® attachment and built-in magnetic attachment, certificate of calibration and low battery indicator.

Range (°C)	Accuracy (°C)	Probe	Pk	Cat. No.
-40...+70	±1,0	Two waterproof sensors	1	620-2140
-40...+70	±1,0	Two glass bead recyclable bottles	1	620-2149

### Big digit memory thermometer, Traceable®



620-2042

**External probe\* (LxØ: 20x5 mm) with three metre cable and internal sensor\*\***

This digital thermometer with dual display allows for reading of ambient and probe temperatures simultaneously. Both cable and sensor perform accurately when under water.

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

WxDxH: 70x95x19 mm

Weight: 114 g

**Delivery information:** 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 (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+70*; -5...+50**	±1,0	0,1	1	620-2042

### Triple display thermometer, Traceable®



620-2032

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

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

WxDxH: 90,4x24x90,4 mm

Weight: 99 g

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

**Delivery information:** 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 one year monitoring.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-40...+80	±1,5	0,5	1	620-2032



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## Large digit triple display thermometers, Traceable®



620-1584

### Bottle probe in non toxic glycol solution or waterproof Bullet™ probe (20 mm)

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 probes plus room temperature
- Out of range alarm programmable in 1,0 °C increments

WxDxH: 99x111x22 mm

Weight: 113 g

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

**Delivery information:** Supplied with Traceable® certificate of calibration, slot for wall-mounting, Velcro® and magnetic strips to attach to any surface, AAA battery and three meter cable.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+70	±1,0	0,1	Bottle	1	620-1584
-50...+70	±1,0	0,1	Waterproof Bullet™	1	620-1585

## Large digit triple display thermometers, Traceable® Plus™



620-1582

### Bottle sensor in glycol solution or stainless steel Bullet™ probe

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: High, low 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)

WxDxH: 75x62x15 mm

Weight: 113 g

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

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

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+70	±0,5	0,1	Bottle	1	620-1582
-50...+70	±0,5	0,1	Stainless steel Bullet™ (20 mm)	1	620-1583

### Triple display thermometers, Traceable® Ultra™



Bottle /Bullet™ sensor

Probes: Non toxic glycol bottle (5 ml)/Micro-bottles/Bullet™ sensors

These digital thermometers can record the date and the time of up to ten events, which fall outside the 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

WxDxH: 65x18,5x110 mm

Weight: 113 g

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

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

Range (°C)	Accuracy (°C)	Probe	Pk	Cat. No.
-50...+70	±0,5 (-30...+50); ±1,0	Bottle	1	620-2334
-50...+70	±0,5 (-30...+50); ±1,0	2 Bottles	1	620-2335
-50...+70	±0,5 (-30...+50); ±1,0	Micro-bottle	1	620-2339
-50...+70	±0,5 (-30...+50); ±1,0	2 Micro-bottles	1	620-2340
-50...+70	±0,5 (-30...+50); ±1,0	Bullet™ sensor	1	620-2336
-50...+70	±0,5 (-30...+50); ±1,0	2 Bullet™ sensors	1	620-2337
-50...+70	±0,5 (-30...+50); ±1,0	Bottle/Bullet™ sensor	1	620-2338

### Triple display thermometers, Traceable®



620-1661

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

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 permits refrigerator doors to close on it.

- Maximum/minimum monitors high and low readings overnight, on weekends, 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

WxDxH: 70x20x120 mm

Weight: 113 g

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

Delivery information: Supplied with Traceable® certificate of calibration, flip stand, wall bracket, Velcro® mounting strips and batteries.

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

## Digital thermometers



### Stainless probe (LxØ: 125x3,5 mm) or glass bead bottle (LxØ: 79x3,5 mm)

These precision thermometers are designed to monitor the temperature in pharmaceuticals, vaccines, chemicals, blood and blood products, food products and easily identify if and when a sample's temperature has gone outside of a defined range.

- Date and time of up to ten events that fall outside of the limits
- Audible alarm, low or high alarm icon, indicates maximum/minimum temperatures
- Verification model with glass bead filled bottle to eliminate detection of rapid changes and protect from contamination

WxDxH: 65x18,5x110 mm

Calibration from an ISO/IEC 17025:2005 accredited laboratory that indicates traceability to standards provided by NIST.

**Delivery Information:** Supplied with two AAA batteries, magnet and Velcro® mounting options.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+200	±0,5 (-20...+100); ±1,5 (<+100)	0,1	Stainless steel	1	620-2343
-50...+200	±0,5 (-20...+100); ±1,5 (<+100)	0,1	Glass bead bottle	1	620-2344

## Triple display thermometers, Traceable®



620-1822

620-1823

620-1827

### Chemical resistant, waterproof sensor/non toxic glycol bottle probes

These highly accurate thermometers monitor temperatures in refrigerator and freezer simultaneously or 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)

WxDxH: 70x108x19 mm

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

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

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



### Refrigerators and freezers thermometers, Traceable®



620-2211



620-2213



620-2216

#### Bottle probe in non toxic glycol/Bullet™ sensor/stainless steel probe with three metre cable

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 one 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

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.

WxDxH: 70x19x108 mm

Weight: 0,14 kg

**Delivery information:** Supplied with batteries, universal adapter, stand, Velcro®, magnetic strips, wall mount, Traceable® certificate of calibration and batteries.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+70	±0,25	0,01	One bottle	1	620-2211
-50...+70	±0,25	0,01	Two bottles	1	620-2212
-50...+70	±0,25	0,01	One Bullet™ sensor	1	620-2213
-50...+70	±0,25	0,01	Two Bullets™ sensors	1	620-2214
-50...+70	±0,25	0,01	One bottle/one Bullet™ sensor	1	620-2215
-50...+70	±0,25	0,01	One stainless steel	1	620-2216
-50...+70	±0,25	0,01	Two stainless steel	1	620-2217



### Datalogging thermometers, Traceable® Excursion-Trac™



620-2210



620-2205



620-2207



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 one minute to 24 hours
- Stores up to ten 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

WxDxH: 70x20x107 mm

Weight: 140 g

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

**Delivery information:** Supplied with individually-numbered Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+70	±0,25	0,01	One bottle	1	620-2204
-50...+70	±0,25	0,01	Two bottles	1	620-2205
-50...+70	±0,25	0,01	One sensor	1	620-2206
-50...+70	±0,25	0,01	Two sensors	1	620-2207
-50...+70	±0,25	0,01	Bottle/Bullet™ probe	1	620-2208
-50...+70	±0,25	0,01	Stainless steel	1	620-2209
-50...+70	±0,25	0,01	Two stainless steel	1	620-2210

## Highly accurate freezer thermometers, Traceable®



620-1976



620-1978



620-1979

### Choice of four platinum probes with PTFE cable

These triple display thermometers offer a choice of different probes. The bottle insulates from rapid temperature changes when door is opened. The stainless steel handle probe (ØxL: 3,2x300 mm) with three 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 seven 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

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

WxDxH: 108x70x19 mm

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

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-50...+70	±0,1	0,01	Non toxic glycol bottle	1	620-1976
-50...+70	±0,1	0,01	PTFE sensor	1	620-1977
-99,99...+199,99	±0,1	0,01	Stainless steel	1	620-1978
-99,99...+199,99	±0,1	0,01	Stainless steel Bullet™	1	620-1979

### Extreme accuracy triple display thermometers, Traceable®



620-1824

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

These international standard digital thermometers provide exact readings required 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

WxDxH: 106x69x20 mm

Weight: 142 g

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

**Delivery information:** Supplied with Traceable® calibration certificate, two AA batteries, stand, Velcro® and magnetic strips, plus a wall mount.

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

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

### Radio signal digital thermometer, Traceable®



620-1669

**Internal sensor and external probes with 3 m cable**

This digital thermometer provides four channels. The unit 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

WxDxH: 103x117x25 mm

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

**Delivery information:** 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)	Pk	Cat. No.
-5...+70	±1,0	0,1	1	620-1669
Description			Pk	Cat. No.
<b>Remote sensors, Traceable®</b>				
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

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## Memory card thermometers, Traceable®



620-1963

620-1964

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

WxDxH: 110x91x30 mm (cable: 2 m)

Weight: 200 g

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

**Delivery information:** 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.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-30...+70	±0,5 (0...25); ±0,6 (25...70); ±1,2 (-30...0; 50...70)	0,1	Bottle sensor (25x63 mm)	1	620-1963
-30...+70	±0,5 (0...25); ±0,6 (25...70); ±1,2 (-30...0; 50...70)	0,1	Stainless steel (ØxL: 4x25 mm)	1	620-1964

## Full scale digital thermometer, Traceable®



620-2006

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

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

- Extra large digits (16 mm) readable from two 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

WxDxH: 83x38x178 mm

Weight: 227 g

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

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

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-200...+1370	±1,0; ±2,0 (>+740)	0,1; 1,0	1	620-2006

Description	Range (°C)	Pk	Cat. No.
<b>K-type probes</b>			
Stainless steel probe with one metre cable	-50...+700	1	620-2005
K-type fast response probe with 1,2 m coated cable	-40...+250	1	620-2012

### Precision digital thermometer, Traceable®



620-2000

**Stainless steel probe (ØxL: 3x160 mm) with 1,5 metre cable**

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

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

WxDxH: 89x32x140 mm

Weight: 227 g

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

**Delivery information:** Supplied with PVC protective casing, Traceable® certificate of calibration, nine volt battery and probe.

Range (°C)	Accuracy (°C)	Resolution (°C)	Pk	Cat. No.
-50...+150	±0,05	0,001	1	620-2000
Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Probes, Traceable®</b>				
Stainless steel micro probe	-50...+150	1x70	1	620-2008
<b>Accessories</b>				
Data acquisition software for hum./temp./dew point meters and thermometer 620-2000			1	630-2507

### Ultra-accurate digital thermometers, Traceable®



620-1980

**Stainless steel probe (LxØ: 178x3,3 mm) and 1,8 metre cable / Bullet™ probe (LxØ: 25x3,2 mm) and 3 metre PTFE cable**

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 to show one, two, three or four significant numbers after decimal
- Membrane covered keys are splash proof

WxDxH: 89x32x140 mm

Weight: 230 g

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

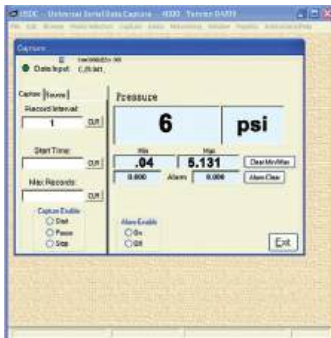
**Delivery information:** Supplied with battery, computer output, plastic carrying case and Traceable® certificate of calibration.



620-1981

Range (°C)	Accuracy (°C)	Probe	Pk	Cat. No.
-200...+500	0,05 % (-80...+290)	Stainless steel	1	620-1980
-200...+500	0,05 % (-80...+290)	Bullet™ sensor	1	620-1981
Description			Pk	Cat. No.
<b>Accessories</b>				
Data acquisition software for hum./temp./dew point meters and thermometer 620-2000			1	630-2507

## Software, Traceable®



### Data capture programme 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; and utilises an alarm word that permits 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

**Delivery information:** Includes a CD, a 1,8 m 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®



620-2049

### Two fast response (<1 s) probes with 1,2 m cable

This dual channel thermometer permits 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). The 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

WxDxH: 178x32x76 mm

Weight: 269,5 g

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

**Delivery information:** 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)	Pk	Cat. No.
-40...+250	±0,75% +1,0	0,1 (-50...+199,9); 1,0	1	620-2049

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>K-type thermometer probes</b>				
Beaded probe with metal wire cable	-73...+982	4,8x3048	1	620-2106

## Ultra-accurate RTD platinum thermometer, Traceable®



620-1970

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

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

- Developed for experimental requirement, 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

WxDxH: 177x76x32 mm

Weight: 270 g

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

**Delivery information:** Supplied with probe, battery and Traceable® certificate of calibration.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	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	1	620-1970

Description	Pk	Cat. No.
<b>AC adapters</b>		
AC adaptor, EU-plug	1	620-1967
AC adapter, UK-plug	1	620-1968



## Calibratable handheld thermometer, TD 131



620-1933

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

**Delivery information:** Supplied with certificate of calibration and transport case.

Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
-200...+200	±0,1 ±1,0 (-70...+200)	0,1	PT1000	1	620-1933

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Ultra-accurate probes (PT)</b>				
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



620-1935

These ready to use thermometers with probe are designed for temperature measurements which require a 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.

- 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, T-type (620-1934, -1935)
- Temperature drift of 0,002 °C/K i.e. accuracy of 0,06 °C at 37 °C

**Delivery information:** Supplied with probe, nine volt battery, certificate of calibration and transport case.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Probe	Pk	Cat. No.
Handheld thermometer with plastic handle and probe (620-1944)	-200...+850	≤0,03	0,01; 0,1	PT100	1	620-1932
Handheld thermometer with probe (620-1941)	-220...+1750	≤0,03% ±0,05% FS	0,1; 1,0	J, K, N, S, T	1	620-1934
Dual-channel thermometer with flexible probe (620-1941)	-220...+1750	≤0,03% ±0,05% FS	0,1; 1,0	J, K, N, S, T	1	620-1935

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Ultra-accurate K-type probes</b>				
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
<b>Ultra-accurate probes (PT)</b>				
Immersion and air probe, PT100 with plastic handle, PVC cable (1 m) and DIN connection	-50...+400	3x150	1	620-1944
Penetration probe, PT100 with plastic handle, PVC cable (1 m) and DIN connection	-50...+400	3x150	1	620-1945

## Ultra-accurate probes (PT)

Description	Range (°C)	Ø×L (mm)	Pk	Cat. No.
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
General purpose probe, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection	-70...+200	3×100	1	620-1946
Penetration probe for soft media, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection	-70...+200	3×100	1	620-1947
Surface probe for soft media, PT1000 with plastic handle, silicone cable (1 m) and gold plated jack connection	-70...+200	3×100	1	620-1948

## Ultra-accurate K-type probes

Description	Range (°C)	Ø×L (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, silicon 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 a 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 deepen frozen goods with plastic handle (135 mm), cable (1 m) and DIN-SMP connection	-65...+600	6×130	1	620-1942
Penetration probe for deepen frozen goods with plastic handle (135 mm), cable (1 m), DIN-SMP connection	-65...+200	3×130	1	620-1943

## Analogue thermo-hygrometer



628-0033

This analogue thermo-hygrometer provides humidity and temperature readings in an easy to read dial format. It is designed for constant monitoring of fume hoods, walk-ins and storage facilities.

- Large analogue display
- Dual temperature scale
- Self-contained, stable, accurate unit that requires no adjustment, maintenance or battery

Ø: 152,4 mm

**Delivery information:** Supplied with screw for wall-mounting.

Range	Division	Pk	Cat. No.
-40...+50 °C; 0 - 100% RH	1,0 °C; 1,0% RH	1	628-0033

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### Analogue thermo-hygrometer clock



Features white case and dial face with red hour, minute and second hands.

- Three functions in one
- Contemporary design with bold markings

Ø: 250 mm

**Delivery information:** Supplied with hook for wall-mounting. Requires AA battery (not included).

Range	Division	Pk	Cat. No.
-30...+50 °C; 0 - 100% RH	2,0 °C; 5,0% RH	1	620-0921

### 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

Ø: 127 mm

**Delivery information:** Supplied with a hook for wall-mounting.

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

### Pen style digital thermo-hygrometer, Traceable®



620-1586

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

W×D×H: 23×140×11 mm

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

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

Range	Accuracy	Pk	Cat. No.
0...50 °C; 25 - 95% RH	±1,0 °C; ±3,5% RH	1	620-1586

## Digital thermo-hygrometer, Traceable®



620-1673

This thermometer/clock/humidity monitor provides three displays simultaneously: Time, temperature and humidity. Internal sensors for use in hoods and storerooms.

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

WxDxH: 59x108x15 mm

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

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

Range	Accuracy	Resolution	Pk	Cat. No.
0...50 °C; 20 - 90% RH	±1,0 °C; ±5,0% RH	0,1 °C; 1,0% RH	1	620-1673

## Digital thermo-hygrometer



620-0915

### Internal sensor and external probe with cable (3 m)

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 daily reset function
- Large display showing all values simultaneously

WxH: 63,5x95,3 mm

Weight: 136 g

**Delivery information:** Supplied with waterproof sensor, magnetic backing, AAA battery and certificate of calibration.

NOTE: Zone 2 with freeze alert for congelation.

Range	Accuracy	Resolution (°C)	Pk	Cat. No.
-10...50 °C; -50...+70 °C*; 20 - 99% RH	±1,0 °C; ±5,0% RH	0,1	1	620-0915

## Digital thermo-hygrometer, Traceable®



620-1921

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

WxDxH: 57x85x6 mm

Weight: 70 g

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

**Delivery information:** Supplied with Traceable® certificate of calibration, wall-mounting and bench stand, solid sensors and two AAA batteries.

Range	Accuracy	Resolution	Pk	Cat. No.
0...50 °C; 25 - 95% RH	±1,0 °C; 2,0; 4,0% RH	1,0 °C; 1,0% RH	1	620-1921

### Digital thermo-hygrometer, Traceable® jumbo



628-0031

#### Internal sensor and external probe with cable (3 m)

This thermo-hygrometer continuously and simultaneously displays ambient relative humidity and temperatures. 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

WxDxH: 108x19x107 mm

Weight: 152,5 g

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

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

Range	Accuracy	Resolution	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	1	628-0031

### Radio digital thermo-hygrometer, Traceable®



620-1674

#### Wireless

This 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

WxDxH: 103x117x25 mm

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

**Delivery information:** Supplied with remote module and Traceable® certificate of calibration.

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

Description	WxDxH (mm)	Pk	Cat. No.
<b>Probe</b>			
Temperature and humidity sensor	60x90x20	1	620-1675

### Thermo-hygrometer with memory, Traceable®



620-1874

This thermo-hygrometer measures temperature and relative humidity and displays both on a dual LCD. Unit is equipped with an output receptacle for transferring data to a computer. An audible click confirms each key entry. Designed for monitoring conditions in cleanrooms, computer rooms, storage facilities and anywhere temperature and RH affect vital components and tests.

- Recalls the minimum and maximum readings at any time period
- 'HOLD' button allows the display to be frozen to capture readings
- Automatic-off battery saving function which may be deactivated

WxDxH: 181x32x70 mm

Weight: 305 g

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

**Delivery information:** Supplied with probe (LxØ: 216x17 mm) and 91 cm cable, Traceable® certificate of calibration, hard plastic carrying case, and nine volt battery for 100 hours of continuous use. The data acquisition software incl. cable (620-2048) needs to be ordered separately.

Range	Accuracy	Resolution	Pk	Cat. No.
-18...+93 °C; 10 - 95% RH	±1,0 (0...40); 2,0 °C; ±2,0% RH (mid-range); ±4,0% RH	0,1 °C; 0,1% RH	1	620-1874

Description	Pk	Cat. No.
<b>Accessories</b>		
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



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

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.

WxDxH: 106x67x30 mm

Weight: 135 g

**Delivery information:** Supplied with nine volt IEC 6F22 battery with low battery warning in cardboard box and certificate of calibration.

Range	Accuracy	Resolution	Pk	Cat. No.
-20...+70 °C; 10 - 95% RH	±0,5% ±0,1 °C; ±3,0% RH	0,1 °C; 0,1% RH	1	620-1951

## Thermo-hygrometer with barometer



### PT1000 and capacitive polymer piezoresistive fixed sensor probe (LxØ: 35x14 mm)

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 applications of air conditioning, 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: Values alternating
- 'HOLD' function to freeze the values
- Tendency indicator for barometer
- Optional interface for connection to a PC

WxDxH: 106x67x30 mm

Weight: 130 g

**Delivery information:** Supplied with nine volt IEC 6F22 battery, low battery warning and certificate of calibration.

Range	Accuracy	Resolution	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	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

WxDxH: 71x26x142 mm

Weight: 160 g

**Delivery information:** Supplied with temperature thermo-hygrometer probe, certificate of calibration and plastic case.

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

Description	Range (°C)	ØxL (mm)	Pk	Cat. No.
<b>Ultra-accurate K-type probes</b>				
General purpose probe for surface, immersion, air and gas with plastic handle, silicon 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

### Digital thermo-hygrometer with dew point, Traceable®



620-2277

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

WxDxH: 66,7x16x98,4 mm

Weight: 170 g

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

**Delivery information:** Supplied with wall mount, batteries and Traceable® certificate of calibration.

Range	Accuracy (%)	Resolution	Pk	Cat. No.
-10...+60 °C; 1 - 99% RH	±3,0% mid-range; ±5,0	0,1 °C; 0,1% RH	1	620-2277

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



620-2278

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 one minute and a red LED flashes until reading returns to non alarm conditions

WxDxH: 108x25,4x108 mm

Weight: 120,5 g

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

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

Range	Accuracy (%)	Resolution	Pk	Cat. No.
-40...+70 °C; 1 - 99% RH	±4,0 (20 - 80)	0,1 °C; 0,1% RH	1	620-2278



### Temperature and humidity logger with memory card, Traceable®



620-1965

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)

WxDxH: 110x91x30 mm

Weight: 200 g

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

**Delivery information:** 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	Pk	Cat. No.
0...50 °C; 0 - 90% RH; -20...+50 °C Td	±1,0 °C; ±5,0 (20 - 85); ±7,0% RH	0,1 °C; 0,1% RH	1	620-1965

## Precision barometer, Traceable®



628-0041

### Corrosion-proof, nickel-chrome

This barometer with triple scale provides a sensitive measure of atmospheric pressure.

- Three distinct scales
- Adjustable pointer to indicate changes
- Response time to change from one to four hours

Ø: 114 mm

Weight: 453 g

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

**Delivery information:** 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	Pk	Cat. No.
954 - 1073 mbar; 715 - 805 mm Hg	±0,5	0,5 mbar; 0,5 mm Hg	1	628-0041

## Barometer with thermo-hygrometer



### Brass with stainless steel case

This barometer features three scale ranges for temperature, relative humidity and pressure.

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

Ø: 152 mm

Weight: 476 g

Range	Accuracy	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	1	620-2126



## Alti, baro and thermometer



### Piezo-resistive absolute pressure and temperature sensor

This precision alti, baro and thermometer is specially suitable 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

WxDxH: 67x30x106 mm

Weight: 135 g

**Delivery information:** Incl. nine volt battery type IEC 6F22 and low battery warning.

Range	Accuracy	Resolution	Pk	Cat. No.
-10...+50 °C; 300 - 1100 mbar; -500...+9000 m	±1,0%; ±1,5 mbar	0,1 °C; 0,1 mbar	1	620-1953

### Alti, baro and thermometer, Traceable®



620-1922

This compact and 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 the day and stopwatch
- Graphically displays the barometric pressure trend

WxDxH: 95x70x19 mm

Weight: 100 g

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

**Delivery information:** Supplied with lanyard and two batteries.

Range	Accuracy	Resolution	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	1	620-1922

### Barometer with clock, Traceable®

This workstation is designed for the monitoring of conditions affecting sample analysis, and assisting in the prediction of weather changes.

- Suitable for wall mounting
- Adjustable altitude compensation (-900 to +3600 feet/-300 to +1200 metres)
- Graphic barometric trend showing present reading and previous 1-, 3-, 6-, and 12-hour readings in a bar chart format
- Forecasting indicators of weather conditions for the next 12-hours using symbols for sunny, cloudy, and rainy
- Clock: Time in AM/PM or 24-hour format and date

WxDxH: 197x63,5x76,2 mm

Weight: 227 g

Traceable® to standards provided by NIST (National Institute of Standards and Technology).

Range	Accuracy	Resolution	Pk	Cat. No.
-50...+70 °C; 800 - 1050 mbar	±1,0 (0...40), ±2,0 °C; ±6,0 (890 - 1020), ±10 mbar	0,5 °C; 1,0 mbar	1	620-2243

### Digital barometer, Traceable®



This digital barometer monitors barometric pressure, air temperature, relative humidity, the 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

WxDxH: 100x76x25 mm

Weight: 200 g

Individually-numbered Traceable® calibration from an ISO/IEC 17025:2005 laboratory accredited by A2LA.

**Delivery information:** Supplied with Traceable® certificate of calibration, wall mount, flip open stand and batteries.

Range	Accuracy	Resolution	Pk	Cat. No.
500 - 1030 mbar; 0...55 °C; 0 - 100% RH	±4,0 mbar; ±0,4 °C; ±3,0% RH	1,0 mbar; 0,1 °C; 1,0% RH	1	620-2330

Description	Pk	Cat. No.
<b>Accessories</b>		
Computer data acquisition system	1	620-2331

## Temperature chart recorders, Traceable®



620-1667

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

WxDxH: 146x98x63 mm

Weight: 283 g

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

**Delivery information:** Supplied with chart, marker, AA alkaline battery and Traceable® certificate of calibration.

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



## Temperature logger, Traceable® Logger-Trac™



620-2322

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 shows the running alarm tally based on the acceptable temperature range and recording interval: Alarm incremented when reading goes outside acceptable parameters during recording interval
- Once an alarm condition has occurred, Alarm Tally, 'ALARM' notification appears, cumulative alarm time: If too many alarm events occur within pre-set parameters, 'QUARANTINE' will appear on the display

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

**Delivery information:** Start kit incl. 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.
<b>Accessories</b>		
Paper sleeves	100	620-2323



## Temperature and humidity logger, Traceable®, Logger-Trac™



These loggers travel with shipments to track the 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

WxDxH: 88,9x50,8x27,9 mm

Weight: 69,5 g

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

**Delivery information:** Starter kit incl. Traceable® Logger-Trac™ logger, data capture cable, MaxiThermal software package, battery and Traceable® certificate of calibration.

Description	Range	Accuracy	Resolution	Memory	Pk	Cat. No.
Starter kit	-30...+72 °C; 0 - 100% RH	±0,2 (0...10); ±0,5 °C; ±3,0 (25 - 75)% HR	0,1 °C; 0,1% RH	30 720 values	1	620-2325
Logger	-30...+72 °C; 0 - 100% RH	±0,2 (0...10); ±0,5 °C; ±3,0 (25 - 75)% RH	0,1 °C; 0,1% RH	30 720 values	1	620-2326



## Temperature logger, Traceable® Logger-Trac™ LN2



External stainless steel probe (LxØ: 110x3,5 mm) with PTFE cable

These data loggers are designed to measure wide temperature ranges (down to -200 °C) in labs or during transit.

- Recording interval
- Start delay, time zone, stop key enable
- Alarm set points: Ambient and external probe individually
- Cumulative alarm duration from user-selected minimum/maximum temperature values
- Reusable/re-programmable for monitoring cryo material in transit as well as reagents, clinical samples, frozen samples, pharmaceuticals and food items

WxDxH: 88,9x50,8x27,9 mm

Weight: 72,8 g

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

**Delivery information:** Starter kit incl. with Traceable® Logger-Trac™ LN2 logger, data capture cable, MaxiThermal software package, battery and Traceable® certificate of calibration.

Description	Range	Accuracy (°C)	Resolution (°C)	Memory	Pk	Cat. No.
Starter kit	-29...+72*; -200...+72 °C**	±0,2 (2...10; 0...30); ±2,0	0,1	64 000 values	1	620-2327
Logger (only) with Traceable® certificate of calibration	-29...+72*; -200...+72 °C**	±0,2 (2...10; 0...30); ±2,0	0,1	64 000 values	1	620-2328

\* Ambient  
\*\* Probe

## 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 metres range for remote sensor, wireless thermometer links up to three remote sensors

WxH: 76,2x191 mm

Weight: 363 g

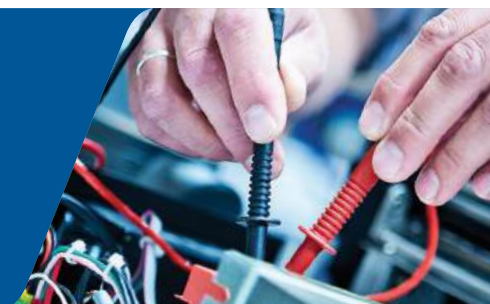
**Delivery information:** Supplied with remote sensor, two AA and two AAA batteries plus wall or desk mount.

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

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## Weather station, Cumulus



The Cumulus 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
- Display indoor and outdoor temperature
- Wall or desk mount

W×H: 81×177 mm

Weight: 270 g

Compliant with RoHS.

**Delivery information:** 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, PRO



Calendar up to the year 2050 with date and day of week in seven languages (English, German, French, Italian, Spanish, Dutch and Danish), a 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.

**Delivery information:** 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.
<b>Probe</b>		
Wireless sensor for weather stations 620-2127 and 620-2128	1	620-2147

## Weather station, Ultimate



620-2128

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

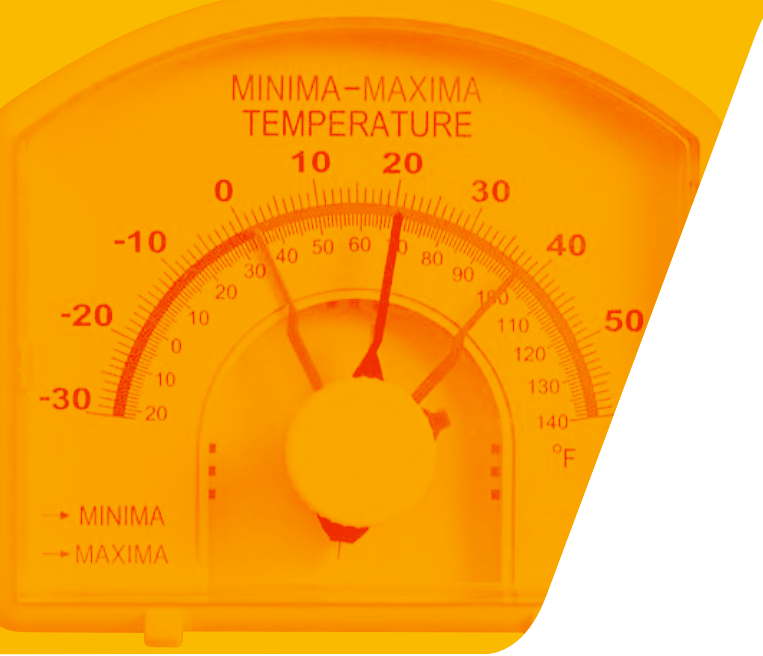
W×H: 127×201 mm

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

**Delivery information:** 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.
<b>Probe</b>		
Wireless sensor for weather stations 620-2127 and 620-2128	1	620-2147



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