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## Explorer® Semi-Micro Balances Built for Sophisticated, Professional Weighing

- Intelligent Performance for Applications Requiring Extreme Accuracy
- Intuitive Software Provides an Extremely Modern User Experience
- Ingenious Construction Designed to Enhance Usability

**Application** Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Pipette Adjustment, SQC

**Display** Full-color VGA graphic display (5.7 in. diagonal), 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

**Operation** AC Adapter (Included)

**Communication** RS232 and USB (included) or second RS232/Ethernet (accessories sold separately). GLP/ GMP data output with real-time clock.

**Construction** Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door as option models

**Design Features** AutoCal™ fully automatic internal calibration system included on all models, fast stabilization time, four touchless sensors, built-in ionizer with automatic door models, 14 operating languages, SAVE to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby.



Model	Auto Door	Capacity	Readability	Pan Size	Item No.	Price USD
EX125D		51 g; 120 g	0.01 mg; 0.1 mg	Ø 3.14 in / Ø 80 mm	30139510	
EX125		120 g	0.01 mg		30139511	
EX225D		120 g; 220 g	0.01 mg; 0.1 mg		30139512	
EX225D/AD	•				30139513	
EX225/AD	•	220 g	0.01 mg		30139514	

Accessories	Item No.	Price USD
Printer, Impact, SF40A, AM	30064203	
Dust Cover, Balance with Draft Shield	30093334	
Auxiliary Display, PAD7, PA AX EX	80251396	
Paper Roll, CBM910	80251932	
Ink Ribbon, CBM910	80251933	
Cable, RS232,CBM910-AV DV EX MB PA TxxP	80252571	
Density Kit, Solids	80253384	

Accessories	Item No.	Price USD
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Anti-Theft Device, MB AX EX	80850043	
RS232 Kit, 2nd, EX EX-HiCap	83021081	
Ethernet Kit, EX EX-HiCap	83021082	
Cable, RS422, Extension, EX EX-HiCap	83021083	
Cable, USB, Type A-B	83021085	



# Explorer® Analytical

## Intelligent Performance No Matter How Difficult the Task!

- A large color touchscreen gives access to the advanced application modes and icon-driven application software features such as user manager, library, and minimum weight indication.
- Explorer features fast stabilization times, optimized linearity and repeatability specifications, enhanced vibration filtering as well as AutoCal™ calibration to ensure accuracy.
- The draftshield provides easy entry to the weighing chamber through the flip or sliding top door and the top-mounted side doors which can be automatically controlled on /AD models.



**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Filling, Totalization/Statistics, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC

**Display** 5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

**Operation** AC adapter (included)

**Communication** RS232 and USB (included) or second RS232/Ethernet (accessories sold separately) . GLP/GMP data output with real-time clock.

**Construction** Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, in-use cover

**Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages

Model	Auto Door	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
EX124		120 g	0.1 mg	—	Ø 3.5 in / Ø 90 mm	83021331	
EX124/AD	•					30061976	
EX224		220 g				83021332	
EX224/AD	•					30061977	
EX324		320 g				83021335	
EX324/AD	•		30061978				

Approved Model	Auto Door	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
EX124N/AD	•	120 g	0.1 mg	1 mg	Ø 3.5 in / Ø 90 mm	30061997	
EX224N		220 g				83021334	
EX224N/AD	•					30061998	
EX324N		320 g				83021337	
EX324N/AD	•					30061999	

Accessories	Item No.	Price USD
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Cable, RS422, 9m, EX EX-HiCap	30078078	
Dust Cover, Balance with Draft Shield	30093334	
Auxiliary Display, PAD7, PA AX EX	80251396	
Printer, Thermal, STP-103, US	80251992	
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	

Accessories	Item No.	Price USD
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	
Anti-Theft Device, SP PA AV NV	80850000	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
RS232 Kit, 2nd, EX EX-HiCap	83021081	
Ethernet Kit, EX EX-HiCap	83021082	
Cable, RS422, Extension, EX EX-HiCap	83021083	
Cable, USB, Type A-B	83021085	
Foot Switch Kit, EX EX-HiCap	83021086	
In-Use-Cover, Terminal, EX	83033633	

Accumulation	Checkweighing	Density Determination	Differential Weighing	Dynamic Weighing	Filling	Formulation	Gross/Net/Tare	Ingredient Costing	Audible Alerts	Auto Standby	Backlight	Environmental Filters	GLP Data Output	GMP/GLP	Internal Calibration	Level Indicator	Leveling Feet	NTEP Certified	
Parts Counting	Peak Hold	Percent Weighing	Pipette Calibration	SQC	Statistics	Totalization	Weighing	Multi-Language	Overload/Underload Indicators	Security Bracket	Software Lockout	Stability Indicator	Time/Date	Touch Screen	Touchless Sensors	Weigh Below Hook	Measurement Canada Approved		

## Explorer® Precision

### Intelligent Performance No Matter How Difficult the Task!

- A large color touchscreen gives access to the advanced application modes and icon-driven application software features such as user manager, library, and minimum weight indication.
- Explorer features fast stabilization times, optimized linearity and repeatability specifications, enhanced vibration filtering and the choice of traditional calibration or AutoCal™ models.
- Explorer's sturdy modular design includes metal housing and a display that can be separated from the weighing base and tower- or wall-mounted for easy viewing in any workspace.

**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Filling, Totalization/Statistics, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC, Statistics

**Display** 5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

**Operation** AC adapter (included)

**Communication** RS232 and USB (included) or second RS232/Ethernet (accessories sold separately). GLP/GMP data output with real-time clock.

**Construction** Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door (1 mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, in-use cover

**Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages



1 mg Model

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Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
EX223/E		220 g	1 mg	—	Ø 5.1 in / Ø 130 mm	30061979	
EX223	•					83021341	
EX423/E						30061980	
EX423	•	83021342					
EX623	•	620 g				83021348	
EX1103	•	1100 g				83021350	
EX2202/E		2200 g	0.01 g		7.5 in x 8 in / 190 mm x 200 mm	30061981	
EX2202	•	83021356					
EX4202/E		4200 g				30061982	
EX4202	•	6200 g	83021357				
EX6202/E			30061983				
EX6202	•		83021360				
EX6201/E		6200 g	0.1 g	30061984			
EX6201	•		83021361				
EX10202	•	10200 g	0.01 g	83021362			
EX10201	•		0.1 g	83021365			

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# Explorer® Precision

Intelligent Performance No Matter How Difficult the Task!

Approved Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
EX423N	•	420 g	1 mg	0.01 g	Ø 5.1 in / Ø 130 mm	83021344	
EX1103N	•	1100 g				83021352	
EX4202N	•	4200 g	0.01 g	0.1 g	7.5 in x 8 in / 190 mm x 200 mm	83021359	
EX10202N	•	10200 g				83021364	
EX10201N	•		0.1 g	83021367			

Accessories	Item No.	Price USD
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Cable, RS422, 9m, EX EX-HiCap	30078078	
Dust Cover, Balance with Draft Shield	30093334	
Auxiliary Display, PAD7, PA AX EX	80251396	
Printer, Thermal, STP-103, US	80251992	
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	

Accessories	Item No.	Price USD
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	
Anti-Theft Device, SP PA AV NV	80850000	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
RS232 Kit, 2nd, EX EX-HiCap	83021081	
Ethernet Kit, EX EX-HiCap	83021082	
Cable, RS422, Extension, EX EX-HiCap	83021083	
Cable, USB, Type A-B	83021085	
Foot Switch Kit, EX EX-HiCap	83021086	
Column Kit, EX	83021102	
In-Use-Cover, Terminal, EX	83033633	

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## Explorer® Precision High Capacity Intelligent Performance No Matter How Difficult the Task!

- A large color touchscreen gives access to the advanced application modes and icon-driven application software features such as user manager, library, and minimum weight indication.
- 2-D shock protection and IP54 base enclosure protect the balance from damage, while the AutoCal™ automatic internal calibration system ensures performance.
- Explorer's sturdy modular design features a color touch display that can be separated from the weighing base as well as two programmable touch-free sensors and a large weighing pan.



- Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Filling, Totalization/Statistics, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC, Statistics
- Display** 5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness
- Operation** AC power cord (included) or rechargeable battery (accessory sold separately)
- Communication** RS232 and USB (included) or second RS232/Ethernet (accessories sold separately). GLP/GMP data output with real-time clock.
- Construction** Modular design, IP54 metal base, die-cast top housing, stainless steel pan, up-front level indicator, integral weigh below hook, calibration lock, two touchless sensors, terminal housing in-use cover
- Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages



Model	Capacity	Readability	Pan Size	Item No.	Price USD
EX12001	12000 g	0.1 g	14.8 in x 12.2 in 377 mm x 311 mm	30057099	
EX24001	24000 g			30057100	
EX35001	35000 g			30057101	

Accessories	Item No.	Price USD
Rechargeable Battery, EX-HiCap R71	30041295	
Wheel Kit, Set(4), EX-HiCap	30041470	
Printer, Impact, SF40A, AM	30064203	
Cable, RS422, 9m, EX EX-HiCap	30078078	
Column Kit, EX-HiCap	30078082	
Auxiliary Display, PAD7, PA AX EX	80251396	
Printer, Thermal, STP-103, US	80251992	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	

Accessories	Item No.	Price USD
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Anti-Theft Device, SP PA AV NV	80850000	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
RS232 Kit, 2nd, EX EX-HiCap	83021081	
Ethernet Kit, EX EX-HiCap	83021082	
Cable, RS422, Extension, EX EX-HiCap	83021083	
Cable, USB, Type A-B	83021085	
Foot Switch Kit, EX EX-HiCap	83021086	
In-Use-Cover, Terminal, EX	83033633	

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# Adventurer<sup>®</sup> Analytical

## Ready For Your Lab, Wherever That May Be.

- Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications.
- The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data.
- The two piece, top-mounted draftshield doors reduce the footprint of the doors in the rear of the balance when open, and open wide on both sides in order to provide ample room to place samples.



**Application** Weighing, Parts Counting, Percent Weighing, Check Weighing, Animal/Dynamic Weighing, Totalization/Statistics, Formulation, Density Determination, Display Hold

**Display** 4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

**Operation** AC adapter (included)

**Communication** RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

**Construction** Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

**Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, 9 operating languages



Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX124	•	120 g	0.1 mg	—	Ø 3.5 in / Ø 90 mm	30100600	
AX124/E						30100601	
AX224	•	220 g				30100602	
AX224/E						30100603	
AX324	•	320 g				30100604	

Approved Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX224N	•	220 g	0.1 mg	1 mg	Ø 3.5 in / Ø 90 mm	30100630	

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	
Paper Roll, 57.5mm, SF40A	12120799	
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Dust Cover, Balance with Draft Shield	30093334	
SP In-Use-Cover wo DS AX	30111777	
SP In-Use-Cover DS AX	30111792	
Auxiliary Display, PAD7, PA AX EX	80251396	

Accessories	Item No.	Price USD
Paper Roll, Thermal, STP103	80251931	
Printer, Thermal, STP-103, US	80251992	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Anti-Theft Device, MB AX EX	80850043	
Cable, USB, Type A-B	83021085	

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Accumulation  
 Check-weighing  
 Density Determination  
 Display Hold  
 Dynamic Weighing  
 Formulation  
 Gross/Net/Tare  
 Backlight  
 Environmental Filters  
 GLP Data Output  
 GMP/GLP  
 Internal Calibration  
 Level Indicator  
 Leveling Feet  
 Multi-Language  
 NTEP Certified

Parts Counting  
 Percent Weighing  
 Pipette Calibration  
 Statistics  
 Totalization  
 Weighing  
 Overload/Underload Indicators  
 Security Bracket  
 Software Lockout  
 Stability Indicator  
 Time/Date  
 Touch Screen  
 Weigh Below Hook  
 Measurement Canada Approved

# Analytical & Precision Balances

## Adventurer® Precision Ready For Your Lab, Wherever That May Be.

- Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications.
- The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data.
- The 1 mg models have a two piece, top-mounted draftshield with doors that open wide, providing ample room for sample placement, while the 0.01g and 0.1g models feature large weighing pans.

- Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Totalization/Statistics, Formulation, Density Determination, Display Hold
- Display** 4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness
- Operation** AC adapter (included)
- Communication** RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.
- Construction** Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1 mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover
- Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, 9 operating languages



Model	AutoCal™	Draft Shield	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD	
AX223	•	•	220 g	1 mg	—	Ø 5.1 in / Ø 130 mm	30100605		
AX223/E							30100606		
AX423	•						420 g	30100607	
AX423/E			520 g				30100608		
AX523	•						30100609		
AX523/E							30100610		
AX422/E		•	400 g	0.01 g		7.7 in x 6.9 in / 195 mm x 175 mm	30127981		
AX822/E			800 g				30127983		
AX1502	•		1520 g				30100611		
AX1502/E			2200 g				30100612		
AX2202	•						30100613		
AX2202/E							30100614		
AX4202	•		4200 g	30100615					
AX4202/E			5200 g	30100616					
AX5202	•			30100617					
AX2201/E				2200 g	30248912				
AX4201	•		•	4200 g	0.1 g		7.7 in x 6.9 in / 195 mm x 175 mm	30122634	
AX4201/E								30122635	
AX8201	•	8200 g				30100618			
AX8201/E				30100619					

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# Adventurer® Precision

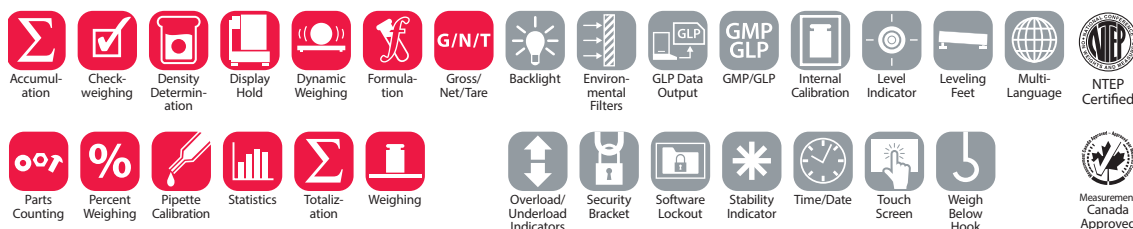
Ready For Your Lab, Wherever That May Be.

Approved Model	AutoCal™	Draft Shield	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX223N/E		•	220 g	1 mg	0.01 g	Ø 5.1 in / Ø 130 mm	30100631	
AX423N	•		420 g				30100632	
AX423N/E							30100633	
AX523N/E			520 g				30100634	
AX622N/E		•	620 g	0.01 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100635	
AX1502N/E			1520 g				30100636	
AX2202N/E			2200 g				30100637	
AX4202N/E			4200 g				30122655	
AX8201N/E			8200 g				30100639	

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	
Paper Roll, 57.5mm, SF40A	12120799	
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Dust Cover, Balance with Draft Shield	30093334	
SP In-Use-Cover wo DS AX	30111777	
SP In-Use-Cover DS AX	30111792	
Auxiliary Display, PAD7, PA AX EX	80251396	

Accessories	Item No.	Price USD
Paper Roll, Thermal, STP103	80251931	
Printer, Thermal, STP-103, US	80251992	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Anti-Theft Device, MB AX EX	80850043	
Cable, USB, Type A-B	83021085	

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# Analytical & Precision Balances

## Pioneer® Analytical

### The Economical Choice for Everyday Weighing!

- Pioneer's draftshield is constructed of all glass panels and three sliding doors, which are easy to remove for cleaning or storage.
- The up-front level indicator is located right next to the display and allows the user to quickly ensure the balance is level prior to each use.
- Pioneer is designed with selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings.



- Application** Weighing, Parts Counting, Percent Weighing
- Display** Backlit liquid crystal display (LCD)
- Operation** AC adapter (included)
- Communication** RS232 (included)
- Construction** Metal base, ABS housing, stainless steel pan, glass draftshield with sliding top door, up-front level indicator, integrated weigh below hook, security bracket, calibration lock, full housing in-use cover
- Design Features** Selectable environmental filters, auto tare, software lockout and reset menu, user selectable communication and printing settings, auto standby

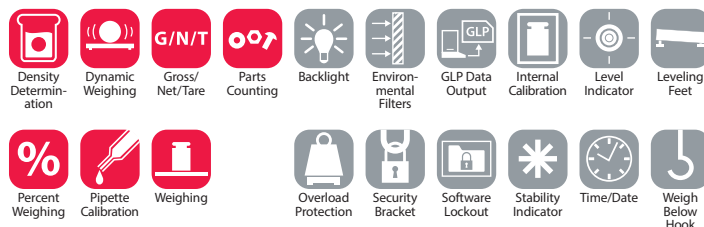


Model	InCal™	Capacity	Readability	Pan Size	Item No.	Price USD
PA84		85 g	0.1 mg	Ø 3.5 in / Ø 90 mm	30208440	
PA84C	•				30208454	
PA124		120 g			30208441	
PA124C	•				30208455	
PA224		200 g			30208442	
PA224C	•				30208456	

Accessories	Item No.	Price USD
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Dust Cover, Balance with Draft Shield	30093334	
Auxiliary Display, PAD7, PA AX EX	80251396	
Printer, Thermal, STP-103, US	80251992	
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	
Cable, ST103-AV DV EX MB PA TxxP	80252581	

Accessories	Item No.	Price USD
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	
Anti-Theft Device, SP PA AV NV	80850000	
Software, Winwedge	80850080	
In-Use-Cover, PA	83020221	

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# Pioneer® Precision

## The Economical Choice for Everyday Weighing!

- Pioneer's compact design and small footprint allows the balance to easily fit into small laboratory benches without overcrowding the workspace.
- The up-front level indicator is located right next to the display and allows the user to quickly ensure the balance is level prior to each use.
- Pioneer is designed with selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings.

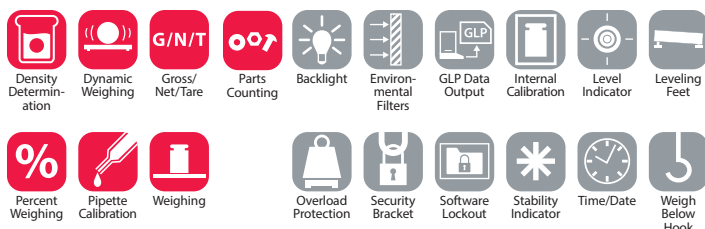


- Application** Weighing, Parts Counting, Percent Weighing
- Display** Backlit liquid crystal display (LCD)
- Operation** AC adapter (included)
- Communication** RS232 (included)
- Construction** Metal base, ABS top housing, stainless steel pan, glass draftshield with sliding top door (1mg models only), up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover
- Design Features** Selectable environmental filters, auto tare, software lockout and reset menu, user selectable communication and printing settings, auto standby

Model	InCal™	Draft Shield	Capacity	Readability	Pan Size	Item No.	Price USD
PA163		•	160 g	1 mg	Ø 4.7 in / Ø 120 mm	30208443	
PA163C	•					30208457	
PA323			320 g			30208444	
PA323C	•					30208458	
PA523			520 g			30208445	
PA523C	•					30208459	
PA1602		•	1600 g	0.01 g	Ø 7 in / Ø 180 mm	30208446	
PA1602C	•					30208460	
PA2202			2200 g	0.1 g		30208447	
PA2202C	•					30208461	
PA2201			3200 g	0.01 g		30208450	
PA2201C	•					30208464	
PA3202			4200 g	0.01 g		30208448	
PA3202C	•					30208462	
PA4202			0.1 g	0.1 g		30208449	
PA4202C	•					30208463	
PA4201						30208453	
PA4201C	•					30208465	

Accessories	Item No.	Price USD
Cable, RS9 M/F, 1.5m	12122603	
Printer, Impact, SF40A, AM	30064203	
Dust Cover, Balance with Draft Shield	30093334	
Auxiliary Display, PAD7, PA AX EX	80251396	
Printer, Thermal, STP-103, US	80251992	
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	
Cable, ST103-AV DV EX MB PA TxxP	80252581	

Accessories	Item No.	Price USD
Density Kit, Solids	80253384	
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	
Anti-Theft Device, SP PA AV NV	80850000	
Software, Winwedge	80850080	
In-Use-Cover, PA	83020221	



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# Scout® STX

## Setting New Standards in Laboratory & Industrial Weighing - The Next Generation of Scout Balances

- Large, resilient color touchscreen allows for effortless operation of the Scout through its informative icon driven menu structure, guiding the user through every step of the weighing application.
- Stabilization time as fast as 1 sec means increased productivity in your facility. Equipped with advanced weighing technology, the Scout also ensures repeatable and reliable weighing results.
- Integrated superior overload protection system rated at 10 times the capacity protects the balance in rugged and demanding environments. The space-saving, slim design allows for stackable storage.

**Application** Weighing, Parts Counting, Percent Weighing, Check Weighing, Animal/Dynamic Weighing, Totalization, Density Determination, Display Hold, Mole Weighing

**Display** 4.3" (109mm) full-color VGA graphic touchscreen display with user-controlled brightness

**Operation** AC adapter (included) or 4 AA batteries (not included)

**Communication** RS232, USB Host, USB Device, Ethernet or Bluetooth® (available as accessories)

**Construction** ABS housing, stainless steel pan, ABS draftshield (1 mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

**Design Features** Stability indicator, stackable design with included stacking and storage cover (excluding 1mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620g capacity



Model	Capacity	Readability	Pan Size	Item No.	Price USD
STX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253005	
STX223	220 g			30253006	
STX222	420 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253007	
STX422		0.1 g		30253008	
STX421	0.01 g			30253012	
STX622	620 g	0.1 g		30253009	
STX621		0.01 g		30253013	
STX1202	1200 g	0.01 g	5.5 in x 6.7 in / 140 mm x 170 mm	30253010	
STX2202	2200 g	0.1 g		30253011	
STX2201				30253014	
STX6201	6200 g	30253015			
STX8200	8200 g	1 g		30253016	

Accessories	Item No.	Price USD
Printer, Impact, SF40A, AM	30064203	
RS232 Kit, STX SPX	30268982	
USB Kit, Host, STX SPX	30268983	
USB Kit, Device, STX SPX	30268984	
Bluetooth Kit, STX SPX	30268985	
Ethernet Kit, STX SPX	30268986	

Accessories	Item No.	Price USD
Stacking & Storage Cover, x6, STX SPX	30268987	
Stacking & Storage Cover, x1, STX SPX	30268988	
Auxiliary Display Kit, STX SPX	30269019	
Density Kit, STX	30269020	
Anti-Theft Device, MB AX EX STX SPX	80850043	



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# Scout® SPX

## Setting New Standards in Laboratory & Industrial Weighing - The Next Generation of Scout Balances

- Combined with a simplified 4 button operation, the Scout's large backlit display increases readability in low light working conditions, and is easier to view from a distance.
- Integrated superior overload protection and impact-resistant pan support safeguard against shock and overloading the balance in rugged and demanding environments.
- Stabilization time as fast as 1 sec and advanced weighing technology, lead to improved productivity in your facility. Increased capacity unlocks a wider range of weighing applications.

**Application** Weighing, Parts Counting, Percent Weighing, Check Weighing, Totalization, Display Hold

**Display** Liquid crystal display (LCD) with backlight

**Operation** AC adapter (included) or 4 AA batteries (not included)

**Communication** RS232, USB Host, USB Device, Ethernet or Bluetooth® (available as accessories)

**Construction** ABS housing, stainless steel pan, ABS draftshield (1 mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

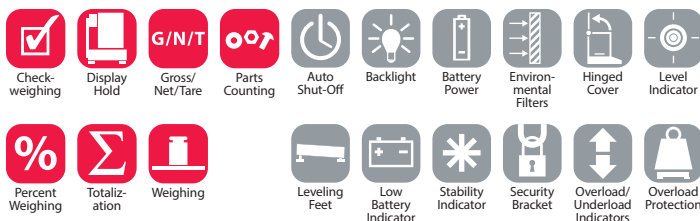
**Design Features** Stability indicator, stackable design with optional stacking & storage cover (excluding 1 mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620g capacity



Model	Capacity	Readability	Pan Size	Item No.	Price USD
SPX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253017	
SPX223	220 g			30253018	
SPX222	220 g			30253019	
SPX422	420 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253020	
SPX622	620 g			30253021	
SPX1202	1200 g			30253022	
SPX2202	2200 g	0.1 g	5.5 in x 6.7 in / 140 mm x 170 mm	30253023	
SPX421	420 g			30253024	
SPX621	620 g			30253025	
SPX2201	2200 g	0.1 g	5.5 in x 6.7 in / 140 mm x 170 mm	30253026	
SPX6201	6200 g			30253027	
SPX8200	8200 g	1 g	5.5 in x 6.7 in / 140 mm x 170 mm	30253028	

Accessories	Item No.	Price USD
Printer, Impact, SF40A, AM	30064203	
RS232 Kit, STX SPX	30268982	
USB Kit, Host, STX SPX	30268983	
USB Kit, Device, STX SPX	30268984	
Bluetooth Kit, STX SPX	30268985	
Ethernet Kit, STX SPX	30268986	

Accessories	Item No.	Price USD
Stacking & Storage Cover, x6, STX SPX	30268987	
Stacking & Storage Cover, x1, STX SPX	30268988	
Auxiliary Display Kit, Scout STX, SPX	30269019	
Density Kit, STX	30269020	
Anti-Theft Device, MB AX EX STX SPX	80850043	



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## Portable Balances

# Navigator® NV

## Multi-purpose Balances with Touchless Sensors that Power Hands-Free Operation!

- Operate the balance with the two touchless sensors that free up your hands for the handling of samples while limiting keypad wear and tear and cross-contamination.
- Navigator NV stabilizes in less than one second to provide fast and accurate weighing results while improving operator efficiency, productivity and throughput.
- The superior mechanical overload protection system safeguards the balance from sustaining damage when loads of up to 400% of its rated capacity are placed on the pan.



**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold

**Display** Backlit liquid crystal display (LCD)

**Operation** AC Adapter (Included) or 4 AA Batteries (Not included)

**Communication** RS232 or USB or Ethernet with integrated cable (accessories sold separately)

**Construction** ABS housing, stainless steel pan, illuminated up-front level indicator, auto shut off, integral weigh below hook and shipping lock, security bracket, calibration lock, two touchless sensors

**Design Features** User selectable communication and printing settings, mechanical and software overload/underload protection

Model	Capacity	Readability	Pan Size	Item No.	Price USD
NV212	210 g	0.01 g	Ø 4.7 in / Ø 120 mm	83033081	
NV211		0.1 g		30135291	
NV511	510 g	0.1 g	5.4 in x 7.5 in / 138 mm x 190 mm	83033083	
NV1101	1100 g	0.1 g		83033085	
NV2101	2100 g	0.1 g		83033087	
NV4101	4100 g	0.2 g		83033089	
NV5101	5100 g	0.5 g		83033091	
NV4000	4000 g	1 g		30135292	

Accessories	Item No.	Price USD
Cable, PC, 9 Pin, NV AV	12106964	
Auxiliary Display, TAD7, SP SPJ TA TAJ	80251395	
Printer, Thermal, STP-103, US	80251992	
Anti-Theft Device, SP PA AV NV	80850000	
Software, Winwedge	80850080	

Accessories	Item No.	Price USD
RS232 Kit, SP TA Navigator	83032107	
USB Kit, SP TA NV NVL NVT	83032108	
Ethernet Kit, NV NVL NVT	83032109	
In-Use-Cover, NV	83032223	
Carrying Case, NV	83032226	

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# Navigator® XT

## Legal-for-Trade High-Capacity Balances with Touchless Sensors that Power Hands-Free Operation!



- The legal-for-trade Navigator XT stabilizes in under a second and can accommodate samples up to 16kg on its large weighing pan.
- Operate the balance with the two touchless sensors that free up your hands for the handling of samples while limiting keypad wear and tear.
- The mechanical overload protection system safeguards the balance from damage when loads of up to 400% of its rated capacity are placed on the pan.

**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold

**Display** Backlit liquid crystal display (LCD)

**Operation** AC Adapter (Included) or Rechargeable Battery (Included)

**Communication** RS232 or USB or Ethernet with integrated cable (accessories sold separately)

**Construction** ABS housing, stainless steel pan, illuminated up-front level indicator, auto shut off, integral weigh below hook and shipping lock, security bracket, calibration lock, two touchless sensors

**Design Features** User selectable communication and printing settings, mechanical and software overload/underload protection

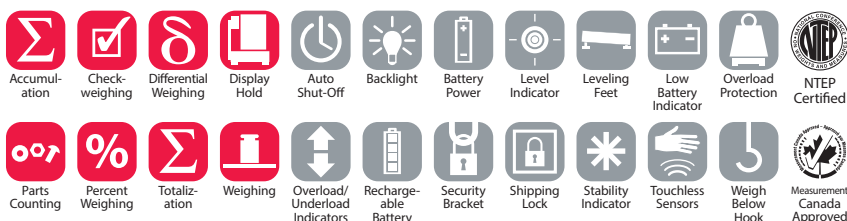
Model	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
NVT1601/1	3.2 lb / 1600 g	0.0002 lb / 0.1 g	—	6.9 in x 9 in / 174 mm x 230 mm	83998182	
NVT3201/1	6.4 lb / 3200 g	0.0005 lb / 0.2 g			83998186	
NVT6401/1	16 lb / 6400 g	0.001 lb / 0.5 g			83998190	
NVT10001/1	22 lb / 10000 g	0.002 lb / 0.5 g			83998194	
NVT16000/1	32 lb / 16000 g	0.002 lb / 1 g			83998198	

Approved Model	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
NVT1601N/1	3.2 lb / 1600 g	0.001 lb / 0.5 g	0.001 lb / 0.5 g	6.9 in x 9 in / 174 mm x 230 mm	83034112	
NVT3200N/1	6.4 lb / 3200 g	0.002 lb / 1 g	0.002 lb / 1 g		83034116	
NVT6400N/1	16 lb / 6400 g	0.005 lb / 2 g	0.005 lb / 2 g		83034120	
NVT16000N/1	32 lb / 16000 g	0.01 lb / 5 g	0.01 lb / 5 g		83034124	

Accessories	Item No.	Price USD
Cable, PC, 9 Pin, NV AV	12106964	
Auxiliary Display, TAD7, SP SPJ TA TAJ	80251395	
Printer, Thermal, STP-103, US	80251992	
Anti-Theft Device, SP PA AV NV	80850000	
Software, Winwedge	80850080	
Rechargeable Battery, NVL NVT	83032106	

Accessories	Item No.	Price USD
RS232 Kit, SP TA Navigator	83032107	
USB Kit, SP TA NV NVL NVT	83032108	
Ethernet Kit, NV NVL NVT	83032109	
In-Use-Cover, NVT	83032221	
Carrying Case, NVT	83032224	

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# Navigator® XL

High-Capacity Balances with Touchless Sensors that Power Hands-Free Operation!



- With less than a one second stabilization time, Navigator XL generates exceedingly accurate results quickly for applications requiring capacities up to 20kg.
- Operate the balance with the two touchless sensors that free up your hands for the handling of samples while limiting keypad wear and tear.
- The superior mechanical overload protection system safeguards the balance from sustaining damage when loads of up to 400% of its rated capacity are placed on the pan.

**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold

**Display** Backlit liquid crystal display (LCD)

**Operation** AC Adapter (Included) and Internal Rechargeable Battery (Included)

**Communication** RS232 or USB or Ethernet with integrated cable (accessories sold separately)

**Construction** ABS housing, stainless steel pan, illuminated up-front level indicator, auto shut off, integral weigh below hook and shipping lock, security bracket, calibration lock, two touchless sensors

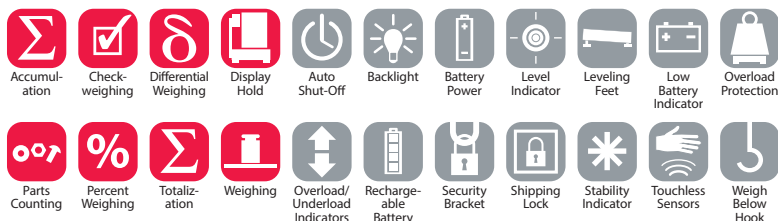
**Design Features** User selectable communication and printing settings, mechanical and software overload/underload protection

Model	Capacity	Readability	Pan Size	Item No.	Price USD
NVL511/1	510 g	0.1 g	7.6 in x 8 in / 194 mm x 203 mm	83033058	
NVL1101/1	1100 g			83033062	
NVL2101/1	2100 g			83033066	
NVL5101/1	5100 g	0.5 g		83033070	
NVL10000/1	10000 g			83033074	
NVL20000/1	20000 g			83033078	

Accessories	Item No.	Price USD
Cable, PC, 9 Pin, NV AV	12106964	
Auxiliary Display, TAD7, SP SPJ TA TAJ	80251395	
Printer, Thermal, STP-103, US	80251992	
Anti-Theft Device, SP PA AV NV	80850000	
Software, Winwedge	80850080	
Rechargeable Battery, NVL NVT	83032106	

Accessories	Item No.	Price USD
RS232 Kit, SP TA Navigator	83032107	
USB Kit, SP TA NV NVL NVT	83032108	
Ethernet Kit, NV NVL NVT	83032109	
In-Use-Cover, NVL	83032222	
Carrying Case, NVL	83032225	

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# CS Series

## When Cost Matters But Dependable Results Are A Must!

- The large weighing platform can accommodate larger samples and can also be removed for easy cleaning.
- Radio frequency protection allows the CS to deliver stable results even when used in areas in which radio waves may be emitted.
- The low profile CS is battery operated or can be powered by a standard AC adapter.



- Application** Weighing
- Display** Liquid crystal display (LCD)
- Operation** AC adapter (included) or 3 AA batteries(included)
- Construction** ABS Housing, Stainless Steel Pan
- Design Features** Mechanical and software overload/underload protection, auto shut-off

Model	Capacity	Readability	Pan Size	Item No.	Price USD
CS200	200 g	0.1 g	5.75 in x 5.25 in / 145 mm x 133 mm	72212663	
CS2000	2000 g	1 g		72212664	
CS5000	5000 g			72212665	

Model	Capacity	Readability	Pan Size	Item No.	Price USD
CS200P	200 g	0.1 g	5.75 in x 5.25 in / 145 mm x 133 mm	80500633	
CS2000P	2000 g	1 g		80500634	
CS5000P	5000 g			80500635	

**"P" models include Postal Chart**

Accessories	Item No.	Price USD
Carrying Case, CS	80010624	
Bowl, 1050ml, CS	80850075	
Pan Cover, SST, CS	80850076	

Accessories	Item No.	Price USD
PWR,ACCES,AC-PRONG	46001776	
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	

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# Portable Balances

## CL Series

### Reliable, Easy-to-Use Balance for Basic Weighing

- The low profile CL has a stackable design which allows the balance to be stored securely and orderly.
- The integrated load cell lock protects the weighing cell from damage during transportation and while in storage.
- The CL is battery operated and automatically shuts off after a certain period of non-use to preserve battery life.

- Display** Liquid crystal display (LCD)
- Operation** 3 AA batteries (included) or AC adapter (accessory sold separately)
- Construction** ABS housing and pan
- Design Features** Mechanical and software overload/underload protection, auto shut-off



Model	Capacity	Readability	Pan Size	Item No.	Price USD
CL201	200 g	0.1 g	Ø 4.75 in / Ø 120 mm	80010610	
CL2000	2000 g	1 g		80010611	
CL5000	5000 g			80010612	
CL5000F				80010621	

**"F" model includes carrying case**

Accessories	Item No.	Price USD
PWR,ACCES,AC-PRONG	46001776	
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	
Pan Cover, SST, CL	80010623	

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## HH Series

### Convenient, Compact and Portable Weighing in a Functional Design!

- HH is available in capacities ranging from 120g to 320g and is ideal for a variety of general, on-the-go weighing applications for many industries.
- A backlit display illuminates the screen for viewing in dim lighting conditions, and a power-saving automatic shut-off feature conserves battery life.
- Among HH's protective features are durable ABS housing and a snap-on cover for protection during storage and transportation.

- Display** Liquid crystal display (LCD)
- Operation** 2 AAA batteries (included)
- Construction** ABS housing and pan, protective snap-on cover
- Design Features** Overload/underload indicators, external push-button calibration



Model	Capacity	Readability	Pan Size	Item No.	Price USD
HH120	120 g	0.1 g	3.25 in x 3 in / 83 mm x 76 mm	71142842	
HH120D	60g / 120g	0.1g / 0.2 g		71142841	
HH320	320 g	0.1 g		71142844	



## PS Series

### High Performance Portable Weighing in the Palm Of Your Hand!

- The one-piece combination pan and cover slides back when being used to weigh and forward when not in use to protect the buttons and display during storage and transportation.
- One of the smallest portable balances on the market, PS can easily fit in to a standard shirt pocket.
- The “pop-out” design of the battery compartment provides simple and fast battery replacement.

- Display** Liquid crystal display (LCD)
- Operation** 2 lithium batteries (included)
- Construction** ABS housing and protective sliding pan
- Design Features** Software overload/underload indicators, auto shut-off



Model	Capacity	Readability	Pan Size	Item No.	Price USD
PS121	120 g	0.1 g	2.5 in x 2.5 in / 64 mm x 64 mm	80104060	
PS251	250 g			80104061	

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# YA Gold Series

## Portable Precision Weighing in a Compact Case

- A hinged cover, sturdy plastic housing and stainless steel weighing pan protect the small balance from damage.
- With an extremely fast stabilization time, your results will appear quickly on the blue backlit LCD display.
- Powered by two 'AAA' batteries, a power-saving auto shut-off feature helps to conserve battery life



- Application** Weighing
- Display** Backlit liquid crystal display (LCD)
- Operation** 2 AAA batteries (included)
- Construction** ABS housing, stainless steel pan, protective cover
- Design Features** Mechanical and software overload indicator, auto shut-off

Model	Capacity	Readability	Pan Size	Item No.	Price USD
YA102	100 g	0.01 g	2.8 in x 2 in / 70 mm x 50 mm	80251910	
YA302	300 g	0.05 g		80251911	
YA501	500 g	0.1 g		80251912	

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# MB45

## The Professional's Choice for Analytical Moisture Analysis.

- The MB45 has a dot matrix display that supports quick setup and displays % moisture, % solids, % regain, time, temperature, weight, test ID, drying curve & statistics.
- MB45 includes a statistical function for simple tracking and recording of standard deviation over time and is available for each procedure in the test library.
- Four selectable automatic drying programs support easy one-step drying. A halogen heating element offers an operating temperature range from 50°C to 200°C in 1°C increments.



**Application** Percent Moisture Determination, Percent Solid Determination, Percent Moisture Regain Determination, Weighing

**Display** Backlit dot matrix display

**Operation** Power cord (included)

**Communication** RS232 with GLP/GMP data output (included)

**Construction** Halogen heat source, metal and ABS housing, metal pan support, metal pan handler, level indicator, in-use cover

**Design Features** 6 shut off criteria (manual, timed, 3 pre-defined auto settings, or user-set auto), 4 heating profiles (standard, ramp, step, fast), 50°C to 200°C heating range (1°C increments)

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	Price USD
MB45	45 g	1 mg	0.01 %	Ø 3.5 in / Ø 90 mm	30079284	

Accessories	Item No.	Price USD
Temp. Calibration Kit, MB Series	11113857	
Holder, Pan, MB35 MB45	11113873	
Printer, Impact, SF40A, AM	30064203	
Printer, Thermal, STP-103, US	80251992	
Holder, Pan, MB Series	80252476	
Pan, Reusable, Set(3), 7mm, MB Series	80252478	
Cable, ST103-AV DV EX MB PA TxxP	80252581	

Accessories	Item No.	Price USD
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Cable, SF42-AV DV MB Ranger	80500571	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
In-Use-Cover, MB35 MB45	80850085	
Pan, Aluminum, Set(80), MB Series	80850086	
Filter, Glass Fiber, Set(200)	80850087	

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# Moisture Analyzers

## MB35

### High Performance Moisture Analysis at a Great Value.

- The MB35 has a dot matrix display that supports quick setup, shows percent moisture, actual weight, actual temperature and test time.
- The MB35 includes a halogen heating lamp with an operating temperature range from 50°C to 160°C in 5°C increments for the quick drying of samples.
- The MB35 offers a straightforward one-step testing procedure that produces accurate results rapidly.



**Application** Percent Moisture Determination, Weighing

**Display** Backlit dot matrix display

**Operation** Power cord (included)

**Communication** RS232 with GLP/GMP data output (included)

**Construction** Halogen heat source, metal and ABS housing, metal pan support, metal pan handler, in-use cover

**Design Features** 3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50°C to 160°C heating range (5°C increments)

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	Price USD
MB35	35 g	2 mg	0.02 %	Ø 3.5 in / Ø 90 mm	30079286	

Accessories	Item No.	Price USD
Temp. Calibration Kit, MB Series	11113857	
Holder, Pan, MB35 MB45	11113873	
Printer, Impact, SF40A, AM	30064203	
Printer, Thermal, STP-103, US	80251992	
Holder, Pan, MB Series	80252476	
Cage, Sample, MB Series	80252477	
Pan, Reusable, Set(3), 7mm, MB Series	80252478	
Cable, ST103-AV DV EX MB PA TxxP	80252581	

Accessories	Item No.	Price USD
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Cable, SF42-AV DV MB Ranger	80500571	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
In-Use-Cover, MB35 MB45	80850085	
Pan, Aluminum, Set(80), MB Series	80850086	
Filter, Glass Fiber, Set(200)	80850087	

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# MB25

## Delivering the Ideal Combination of Results and Value.

- MB25's halogen heating element quickly dries samples, and saves the operator ample time in comparison to moisture analysis procedures using a traditional oven.
- With a bright backlit LCD and easy one-button setup and menu navigation, MB25 is extremely user-friendly.
- MB25 is very easy-to-clean to ensure the integrity of your samples and its compact design allows it to fit seamlessly into most workspaces.



- Application** Percent Moisture Determination, Percent Solid Determination, Weighing
- Display** Backlit liquid crystal display (LCD)
- Operation** Power cord (included)
- Communication** RS232 (included)
- Construction** Halogen heat source, ABS housing, metal pan support, metal pan handler, in-use cover
- Design Features** 3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50°C to 160°C heating range (5°C increments)

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	Price USD
MB25	110 g	5 mg	0.05 %	Ø 3.5 in / Ø 90 mm	83999803	

Accessories	Item No.	Price USD
Temp. Calibration Kit, MB Series	11113857	
Holder, Pan, MB35 MB45	11113873	
Printer, Impact, SF40A, AM	30064203	
Printer, Thermal, STP-103, US	80251992	
In-Use-Cover, MB23 MB25	80252475	
Holder, Pan, MB Series	80252476	
Cage, Sample, MB Series	80252477	
Pan, Reusable, Set(3), 7mm, MB Series	80252478	

Accessories	Item No.	Price USD
Pan, Reusable, Set(3), 14mm, MB Series	80252479	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Cable, SF42-AV DV MB Ranger	80500571	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
Pan, Aluminum, Set(80), MB Series	80850086	
Filter, Glass Fiber, Set(200)	80850087	

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# Moisture Analyzers

## MB23

### Redefining Value in Moisture Analysis!

- The MB23 utilizes a metallic sheathed, no glass infrared heating element for drying of samples.
- With a bright backlit LCD and easy one-button setup and menu navigation, MB23 is extremely user-friendly.
- MB23 is very easy-to-clean to ensure the integrity of your samples and its compact design allows it to fit seamlessly into most workspaces.



- Application** Percent Moisture Determination, Percent Solid Determination, Weighing
- Display** Backlit liquid crystal display (LCD)
- Operation** Power cord (included)
- Communication** RS232 (included)
- Construction** Infrared heat source, ABS housing, metal pan support, metal pan handler, in-use cover
- Design Features** 3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50° to 160° C heating range (5° C increments)

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	Price USD
MB23	110 g	10 mg	0.1 %	Ø 3.5 in / Ø 90 mm	83999801	

Accessories	Item No.	Price USD
Temp. Calibration Kit, MB Series	11113857	
Holder, Pan, MB35 MB45	11113873	
Printer, Impact, SF40A, AM	30064203	
Printer, Thermal, STP-103, US	80251992	
In-Use-Cover, MB23 MB25	80252475	
Holder, Pan, MB Series	80252476	
Cage, Sample, MB Series	80252477	
Pan, Reusable, Set(3), 7mm, MB Series	80252478	

Accessories	Item No.	Price USD
Pan, Reusable, Set(3), 14mm, MB Series	80252479	
Cable, ST103-AV DV EX MB PA TxxP	80252581	
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	
Cable, SF42-AV DV MB Ranger	80500571	
Anti-Theft Device, MB AX EX	80850043	
Software, Winwedge	80850080	
Pan, Aluminum, Set(80), MB Series	80850086	
Filter, Glass Fiber, Set(200)	80850087	

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## Frontier™ 5000 Series Mini

### Powerful and Convenient Mini Centrifuge for Simple and Quick Life Science Separation Applications!

- With a low voltage power input, quiet brushless motor and a rubber base that absorbs vibrations, Frontier 5306 minimizes operational noise and reduces disruptions in the laboratory.
- Frontier 5306 is designed with operator safety in mind, and includes a rotor imbalance sensor and two safety switches which immediately stop the rotors should the lid open during use.
- Frontier 5306 takes simple one-step operation to a new level. Simply place your sample in the centrifuge, close the lid, and it will begin to rotate without the press of a button.



- Application** Sample preparation
- Operation** AC adapter (included)
- Construction** Brushless quiet motor, auto shut-off safety switches
- Design Features** One-touch operation



Two rotors and adaptors are included

Model	Maximum Speed	Max g-force	Capacity	Item No.	Price USD
FC5306	6,000 rpm	2,000 g	4 x 8 place PCR Strips; 8 x 1.5 ml / 2.0 ml	30134157	

Accessories	Item No.	Price USD
Rotor, 1.5/2ml x8, FC5306	30129559	
Rotor, 0.2ml PCR8 x4, FC5306	30129560	

Accessories	Item No.	Price USD
Adapter for 0.2 ml Tube (8PCS/Package)	30129561	
Adapter for 0.5 ml Tube (8PCS/Package)	30129562	

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Hinged  
Cover

# Starter 5000 pH Bench

## High Performance Bench Meter for Universal pH Applications

- Starter 5000's performance is propelled by a 1000 item library, 10 sensors for calibration storage, 8 predefined and 1 self-defined buffer groups, 3 endpoint modes and meets GLP/GLM requirements.
- The color touchscreen operates similar to smartphones and tablet computers which provides simple operation of the advanced features, such as one-touch toggling of measurement modes.
- With a standalone electrode holder, USB port, IP54 housing and in-use-cover, Starter 5000 provides the flexibility and protection that ensures smooth and enduring operation.



- Application** pH, oxidation-reduction potential (ORP) measurement
- Display** Backlit liquid crystal display (LCD), touchscreen
- Operation** AC adapter (included)
- Communication** RS232 and USB (included). GLP/GMP data output with real-time clock.
- Construction** ABS housing, standalone electrode holder, replaceable in-use cover
- Design Features** 3 endpoint modes, continuous measurement mode, up to 9 point calibration, 1,000 measurement memory



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST5000-B	—	-2.00 – 20.00 pH; -30 – 130°C; -2000.00 – +2000.00 mV	0.001 pH; 0.01 mV; 0.1 °C	30129895	
ST5000-F	ST350 (Included)			30129896	

Accessories	Item No.	Price USD
ORP electrode STORP2	30038553	
ORP electrode STORP1	30038555	
Holder, Stand Alone, Electrode	30058733	
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	
Printer, Impact, SF40A, AM	30064203	
Buffer pH1.68 250ml	30100424	
Buffer pH4.01 250ml	30100425	
Buffer pH6.86 250ml	30100426	
Buffer pH7.00 250ml	30100427	
Buffer pH9.18 250ml	30100428	

Accessories	Item No.	Price USD
Buffer pH10.01 250ml	30100429	
Buffer pH12.45 250ml	30100440	
pH Electrode ST310	83033965	
pH Electrode ST210	83033966	
pH Electrode ST320	83033967	
pH Electrode ST230	83033968	
pH Electrode STPURE	83033969	
Temperature Electrode STTEMP30	83033970	
Buffer Powder pH4.01;7.00;10.01	83033971	

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# Starter 3100 pH Bench

## Smart pH Bench Meter for Standard Laboratory Applications

- Starter 3100's intuitive software includes three point calibration, three buffer groups, automatic and manual endpoint functions, as well as a 99 item library.
- Among Starter 3100's user-friendly features that support ease-of-use are an adjustable standalone electrode holder and large backlit LCD display.
- Documenting measurement data is made simple through the RS232 which can be used to connect peripheral devices such as printers or computers to the meter.



- Application** pH, oxidation-reduction potential (ORP) measurement
- Display** Backlit liquid crystal display (LCD)
- Operation** AC adapter (included)
- Communication** RS232 (included)
- Construction** ABS housing, standalone electrode holder, replaceable in-use cover
- Design Features** 99 measurement memory, automatic and manual endpoint functions, automatic and manual temperature compensation, quick reference guide

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST3100-B	—	-1999 – 1999 mV; -5 °C – 110 °C; -2.00 – 16.00 pH	0.01 pH; 0.1 °C; 1 mV	30057497	
ST3100-F	ST310 (Included)			30058489	

Accessories	Item No.	Price USD
ORP electrode STORP2	30038553	
ORP electrode STORP1	30038555	
Holder, Stand Alone, Electrode	30058733	
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	
Printer, Impact, SF40A, AM	30064203	
Buffer pH1.68 250ml	30100424	
Buffer pH4.01 250ml	30100425	
Buffer pH6.86 250ml	30100426	
Buffer pH7.00 250ml	30100427	
Buffer pH9.18 250ml	30100428	

Accessories	Item No.	Price USD
Buffer pH10.01 250ml	30100429	
Buffer pH12.45 250ml	30100440	
pH Electrode ST310	83033965	
pH Electrode ST210	83033966	
pH Electrode ST320	83033967	
pH Electrode ST230	83033968	
pH Electrode STPURE	83033969	
Temperature Electrode STTEMP30	83033970	
Buffer Powder pH4.01;7.00;10.01	83033971	

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# Starter 2100 pH Bench

## Economical pH Bench Meter for Basic Laboratory Applications

- With the attached quick guide, five clearly marked keys and user friendly software, novices can operate the meter with minimal training.
- The built-in electrode holder provides uncomplicated and convenient all-in-one operation while the large LCD display screen clearly displays results.
- Auto buffer recognition, electrode condition icon, automatic temperature compensation and reference input all work to ensure accurate results.



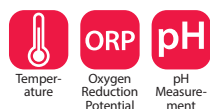
- Application** pH, oxidation-reduction potential (ORP) measurement
- Display** Liquid crystal display (LCD)
- Operation** AC adapter (included)
- Construction** ABS housing, built-in electrode holder
- Design Features** Auto buffer recognition, two point calibration, quick reference guide

Model	Electrode	Measurement Resolution	Measurement Range	Item No.	Price USD
ST2100-B	—	0.01 pH; 0.1 °C; 1 mV	1 – 100 °C; 0.00 – 14.00 pH; -1999 – 1999 mV	30057494	
ST2100-E	ST210 (Included)			30057495	
ST2100-F	ST210 (Included); STTEMP30 (Included)			30057496	

Accessories	Item No.	Price USD
Holder, Stand Alone, Electrode	30058733	
Buffer pH1.68 250ml	30100424	
Buffer pH4.01 250ml	30100425	
Buffer pH6.86 250ml	30100426	
Buffer pH7.00 250ml	30100427	
Buffer pH9.18 250ml	30100428	
Buffer pH10.01 250ml	30100429	
Buffer pH12.45 250ml	30100440	
Buffer Powder pH4.01;7.00;10.01	83033971	

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# Starter 3100C Conductivity Bench

## Smart Conductivity Bench Meter for Standard Laboratory Applications

- Starter 3100C's intuitive software includes four calibration points, automatic and manual endpoint functions, and one touch conversion between measurement modes.
- Among Starter 3100C's user-friendly features that support ease-of-use are an adjustable standalone electrode holder and large backlit LCD display.
- Documenting measurement data is made simple through the RS232 which can be used to connect peripheral devices such as printers or computers to the meter.



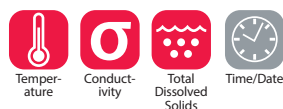
- Application** Conductivity, total dissolved solids (TDS), salinity measurement
- Display** Backlit liquid crystal display (LCD)
- Operation** AC adapter (included)
- Communication** RS232 (included)
- Construction** ABS housing, standalone electrode holder, replaceable in-use cover
- Design Features** 99 measurement memory, automatic and manual endpoint functions, automatic and manual temperature compensation

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST3100C-B	—	1 – 100 °C; 0.0 – 19.9 mg/L; 0.00 – 19.99 psu	0.01 psu; 0.01 µS/cm; 0.1 °C; 0.1 mg/L	30058730	
ST3100C-F	STCON3 (Included)	(Salinity); 00.0 µS/cm – 199.9 mS/cm		30058731	

Accessories	Item No.	Price USD
Holder, Stand Alone, Electrode	30058733	
In-Use-Cover, STARTER	30058734	
Printer, Impact, SF40A, AM	30064203	
Standard Conduct 10µs/cm 250ml	30100441	
Standard Conduct 84µs/cm 250ml	30100442	
Standard Conduct 1413µs/cm 250ml	30100443	
Standard Conduct 12.88mS/cm 250ml	30100444	

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# Starter 300 pH Portable

## Convenient Portable pH Meter for Wherever Your Work Takes You

- Automatic and manual temperature compensation ensures accurate readings while a 30 measurement library stores data for future reference.
- The auto buffer recognition stores calibration data and helps to avoid errors during the calibration process.
- With a meter stand, wrist strap for secure field use and IP54 housing, Starter 300 is durable and prepared for versatile use.

**Application** pH, oxidation-reduction potential (ORP) measurement

**Display** Liquid crystal display (LCD)

**Operation** 4 AAA batteries (included)

**Construction** ABS housing, wrist strap

**Design Features** Automatic and manual temperature compensation, auto buffer recognition, calibration icon



ST300-G

Model	Electrode	Measurement Resolution	Measurement Range	Item No.	Price USD
ST300-G	ST320 (Included)	0.01 pH; 0.1 °C; 1 mV	1 – 100 °C; 0.00 – 14.00 pH; -1999 – 1999 mV	30219114	
ST300				83033961	
ST300-B	—			83033962	

Accessories	Item No.	Price USD
Buffer pH1.68 250ml	30100424	
Buffer pH4.01 250ml	30100425	
Buffer pH6.86 250ml	30100426	
Buffer pH7.00 250ml	30100427	
Buffer pH9.18 250ml	30100428	
Buffer pH10.01 250ml	30100429	
Buffer pH12.45 250ml	30100440	
Seal kit, STARTER portables	83032962	
Buffer Powder pH4.01;7.00;10.01	83033971	

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# Starter 300C Conductivity Portable

Convenient Portable Conductivity Meter for Wherever Your Work Takes You

- Starter 300C has a built-in temperature sensor and a 4-pole linear electrode that safeguards itself from polarization and pollution effects.
- With a simple calibration process and quick delivery of measurement results, Starter 300C is efficient and easy-to-use.
- The 30 item library allows the user to easily recall calibration data and stored information with one quick touch.



- Application** Conductivity, total dissolved solids (TDS) measurement
- Display** Liquid crystal display (LCD)
- Operation** 4 AAA batteries (included)
- Construction** ABS housing, wrist strap
- Design Features** Automatic temperature compensation, adjustable temperature coefficient



ST300C-G

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST300C-B	—	1 – 100 °C; 0.1 mg/L – 199.9 g/L (TDS); 00.0 µS/cm – 199.9 mS/cm	0.01 µS/cm; 0.1 °C; 0.1 mg/L	30092000	
ST300C-G	STCON3 (Included)			30219115	
ST300C				83033964	

Accessories	Item No.	Price USD
Standard Conduct 10µs/cm 250ml	30100441	
Standard Conduct 84µs/cm 250ml	30100442	
Standard Conduct 1413µs/cm 250ml	30100443	
Standard Conduct 12.88mS/cm 250ml	30100444	
Seal kit, STARTER portables	83032962	

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# Starter 300D DO Portable

Convenient Portable Dissolved Oxygen Meter for Wherever Your Work Takes You

- The galvanic electrode can be used immediately after being powered on without the wait time typically associated with dissolved oxygen meters
- With a simple calibration process, quick delivery of measurements and automatic temperature compensation, Starter 300D is both easy-to-use and accurate.
- The automatic or manual endpoints allow the user to easily recall the last calibration data and stored information with one quick touch.



**Application** Dissolved oxygen (DO) measurement

**Display** Liquid crystal display (LCD)

**Operation** 4 AAA batteries (included)

**Construction** ABS housing, wrist strap

**Design Features** 30 measurement memory



ST300D-G

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST300D	STDO11 (Included); STTEMP30 (Included)	200 – 400%; 0.00 – 19.99; 0 – 50 °C; 20.0 – 45.0 mg/L	0.1 °C; 0.1 mg/L; 0.1 ppm; 0.1%; 1 mg/L; 1 ppm; 1%	30031655	
ST300D-B	—			30031656	
ST300D-G	STDO11 (Included); STTEMP30 (Included)			30219116	

Accessories	Item No.	Price USD
DO electrode STDO11	30031639	
Zero Oxygen Chemicals, STARTER	30059257	
Seal kit, STARTER portables	83032962	

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# Starter 400D DO Portable

## Dissolved Oxygen (DO) Meter with Optical Technology

- Optical DO Probe allows for minimal maintenance and permits for immediate measurement reading without the need for warm up time or any sample preparation
- Large bright backlit LCD screen provides easy to read results even in low light areas with 5 dedicated manual keys delivers simple straightforward operation for all operators via a simple calibration process and accurate measurements
- With a meter stand, wrist strap for secure field use and IP54 housing, Starter 400D is durable and prepared for versatile use.



**Application** Dissolved Oxygen measurement

**Display** Backlit Color Liquid Crystal Display (LCD)

**Operation** 4 AAA batteries (included)

**Construction** ABS housing, wrist strap

**Design Features** 99 measurement memory, last calibration data recall, auto barometric pressure measurement, auto temperature compensation with manual salinity compensation



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST400D-G	STDO21 (Included)	0 – 50 °C; 0.00 – 20.0 mg/L(ppm)	0.01 mg/L; 0.1 °C; 0.1%	30208726	
ST400D-F				30208727	
ST400D-B	—			30271216	

Accessories	Item No.	Price USD
Seal kit, STARTER portables	83032962	
Zero Oxygen Chemicals, STARTER	30059257	
DO electrode STDO21	30219117	

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# Starter Pen Meters

## Accurate Electrochemistry Measurement At Your Fingertips

- Starter pen meters provide what should be expected of a small, economical pen meter: simple, fast, straightforward, no-frills operation time and time again.
- With durable ABS housing, a protective sensor cap, and automatic shutdown feature that preserves battery life, Starter pen meters can endure consistent use in rugged environments.
- Equipped with a wrist strap that prevents unintentional dropping, Starter pen meters are feature an IP67 waterproof design that can prevent water damage when dropped in to liquid.



ST20D

**Application** pH, oxidation-reduction potential (ORP), conductivity, dissolved oxygen (DO), salinity, total dissolved solids (TDS), temperature measurement

**Display** Liquid crystal display (LCD) display with secondary information line (on select models)

**Operation** 4 1.5V batteries (included)

**Construction** ABS Housing

**Design Features** Easily replaceable electrodes, automatic shut off feature

Model	Meter Type	Measurement Range	Measurement Resolution	Temperature Display	Item No.	Price USD
ST10	pH	0.00 – 14 pH	0.01 pH	Not Available	30073970	
ST20		0.0 – 99.0 °C; 0.00 – 14 pH	0.1 pH	Yes	30073971	
ST10C-A	Conductivity	0.00 – 199.9 µs/cm	0.1 µs/cm	Not Available	30073972	
ST10C-B		0 – 1999 µs/cm	1µs/cm		30073973	
ST10C-C		0.00 – 19.99 ms/cm	10 µs/cm		30073974	
ST20C-A		0.0 – 99.0 °C; 0.00 – 199.9 µs/cm	0.1 µs/cm	Yes	30073975	
ST20C-B		0 – 1999 µs/cm; 0.0 – 99.0 °C	1µs/cm		30073976	
ST20C-C		0.0 – 99.0 °C; 0.00 – 19.99 ms/cm	10 µs/cm		30073977	
ST10T-A	TDS	0.0 – 100.0 mg/L	0.1 mg/L	Not Available	30073978	
ST10T-B		0.0 – 1000 mg/L	1 mg/L		30073979	
ST20T-A		0.0 – 100.0 mg/L; 0.0 – 99.0 °C	0.1 mg/L	Yes	30073980	
ST20T-B		0.0 – 1000 mg/L; 0.0 – 99.0 °C	1 mg/L		30073981	
ST10S	Salinity	0.0 – 10.0 ppt	0.1 ppt	Not Available	30073982	
ST20S		0.0 – 80.0 ppt; 0.0 – 99.0 °C		Yes	30073983	
ST10R	ORP	-1000 – 1000 mV	1 mV	Not Available	30073984	
ST20R		-1000 – 1000 mV; 0.0 – 99.0 °C		Yes	30073985	
ST20D	Dissolved Oxygen	0.0 to 19.9 mg/L	0.1 mg/L	Yes	30073986	

Accessories	Item No.	Price USD
Electrode CS20C ST	30087999	
Electrode R10 ST	30088020	
Electrode R20 ST	30088021	
Buffer pH4.01 250ml	30100425	
Buffer pH7.00 250ml	30100427	

Accessories	Item No.	Price USD
Buffer pH10.01	30100429	
Standard Conduct 84µs/cm 250ml	30100442	
Standard Conduct 1413µs/cm 250ml	30100443	
Standard Conduct 12.88mS/cm 250ml	30100444	

**Need help with selection for your application? Want your NET Pricing? Calibration?**  
**Call COOPER INSTRUMENTS 1-800-344-3921 or email: [sales@cooperinstruments.com](mailto:sales@cooperinstruments.com)**



# Starter Electrodes

## OHAUS Precision Powers the Starter Electrodes

- All sturdy and durable electrodes are constructed of either plastic or glass shafts and built to withstand daily use.
- All electrodes include a temperature sensor, which powers automatic temperature compensation and ensures accurate measurements.
- All electrodes fit perfectly in the electrode holders on OHAUS bench meters and electrode clips on all OHAUS portable meters.



**Application** pH, reference, oxidation-reduction potential (ORP), conductivity, dissolved oxygen (DO), temperature measurement

**Construction** Metal, glass, or plastic shaft

**Design Features** Can be used in conjunction with all Starter bench and portable meters

Model	Electrode Type	Shaft Material	Measurement Range	Temperature	Item No.	Price USD	
ST230	pH	Glass	0.00 – 14 pH		83033968		
ST260			0.00 – 14 pH		30129357		
ST270			0.00 – 14 pH		30240974		
ST350			0.00 – 14 pH	•	30129354		
STMICRO5			0.00 – 14 pH		30087566		
STMICRO8			0.00 – 14 pH		30087569		
STPURE			0.00 – 14 pH		83033969		
ST210			Plastic	0.00 – 14 pH		83033966	
ST310				0.00 – 14 pH	•	83033965	
ST320				0.00 – 14 pH	•	83033967	
STSURF				2.00 - 12.00 pH		30129470	
STCON3			Conductivity	Plastic	3 μS/cm – 200 mS/cm	•	83033972
STCON7	0.02 μS/cm-200 μS/cm	•			30080693		
STDO11	DO	Plastic	1 – 200%		30031639		
STDO21			1 - 200%	•	30219117		
STREF1	Reference	Glass	-		30059253		
STREF2			-		30059254		
STORP1	ORP	Plastic	-1000 – 1000 mV		30038555		
STORP2		Glass	-1000 – 1000 mV		30038553		
STTEMP30	Temperature	Stainless Steel	1 – 100 °C	•	83033970		

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