

# 9 Balances



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**219** Cubis® II Series MCE

**220** Entris® II Series Basic Essential

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### Toploader

**223** Practum/Quintix/Secura Series

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**231** Kasota Stone Balance Table

**231** Granite Clean Room Table

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# ANALYTICAL TA Plus

## Standard Features

- Internal calibration
- Anti-electrostatic 360° transparent windshield
- Eight-digit, 16.5 mm high liquid crystal display (LCD) with backlight
- Single-touch response setting for environment
- 40-step bar graph display
- RS-232 interface for connecting to printer or PC
- ISO/GLP/GMP compliant printing record
- Plastic housing
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound (See technical manual for complete listing)

### Operating Modes:

Counting, Percentage, Limit Function (Checkweighing), Specific Gravity

### Power:

120 VAC adapter

### RS-232:

Baud rate - 1200/2400/4800/9600/19200 bps, 8/7 data bits, Parity bit-None/Odd/Even

### Calibration Weight:

TA Plus-124: 120 g  
TA Plus-224: 220 g

### Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C) 80% RH or lower

### Est. Weight:

6.4 lb (2.9 kg)

### Warranty:

Five-year limited

### Return Policy:

Rice Lake Standard Policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
TA Plus-124	120 g	0.0001 g	1 division	1 division	Ø 3.15 in (80 mm)	8.9 × 8.4 × 8.4 in (225 × 213 × 213 mm)	11 × 7.9 × 12 in (290 × 200 × 306 mm)	196569	\$2,250.00
TA Plus-224	220 g	0.0001 g	1 division	1 division	Ø 3.15 in (80 mm)	8.9 × 8.4 × 8.4 in (225 × 213 × 213 mm)	11 × 7.9 × 12 in (290 × 200 × 306 mm)	196570	\$2,160.00

## Options/Accessories

Part #	Description	Price
108255	115 V AC adapter	\$58.00
108256	230 V AC adapter	\$88.00
108257	In-use cover	\$58.00
107398	Additional operating manual	\$18.00
75351	WinWedge® Tal software	\$345.00
66535	Null modem cable	\$46.00
119919	AbleCable, requires null modem cable PN 66535	\$190.00



# TE Enhanced Series

## Standard Features

- External weight calibration
- Seven-segment (main)/16-segment (sub) display
- Selectable modes: Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal and Formulation
- Mono-metal tuning fork technology (MMTF) provides quick response and stability
- 30-step bar graph display
- AA dry-cell port, (150 hours continuous use with LCD backlight and communication signal ON)
- RS-232 interface for connecting to printer or PC
- Glass breeze break (TE-223, TE-322NC and TE-623 only)

## Specifications

### Weighing Units:

Milligram, Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce (see technical manual for complete listing)

### Operating Modes:

Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal, Formulation

### Power:

100 to 240 VAC adapter, AA dry cell (batteries not included)

### Operating Temperature:

41 °F to 95 °F (5 °C to 35 °C)

### Est. Weight:

TE-223 / 322NC: 6.5 lb (3 kg)  
TE-623 / 3202 / 6202 / 15001 / 1501NC / 8200NC: 6.0 lb (2.7 kg)

### Warranty:

Five-year limited

### Return Policy:

Rice Lake standard policy

### Approvals:

NTEP Certified CC 17-104A2  
Measurement Canada AM-6169



Measurement  
Canada  
Approved

Model	Capacity	Resolution	NTEP Resolution	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
<b>NTEP Certified Only</b>								
TE-223	220 g	0.001 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	187600	\$1,197.00
TE-623	620 g	0.001 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	186030	\$1,575.00
TE-3202	3,200 g	0.01 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	186035	\$1,302.00
TE-6202	6,200 g	0.01 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	186036	\$1,302.00
TE-15001	15,000 g	0.1 g	1.0 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	186037	\$1,260.00
<b>NTEP Certified and Measurement Canada Approved</b>								
TE-322NC	320 g	0.01 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	204688	\$1,165.50
TE-1501NC	1,500 g	0.1 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	204689	\$1,270.50
TE-8200NC	8,200 g	1 g	1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	204690	\$1,270.50

## Options/Accessories

Part#	Description	Price
186074	Power supply 100-240 V AC, 50-60 Hz	\$75.00
186075	In-use dust cover 620 g models and lower	\$30.00
186076	In-use dust cover 3,200 g models and higher	\$30.00
186077	Specific Density Measurement Kit	\$690.00
186079	Ethernet TCP/IP option card	\$690.00



## TOPLOADER

## TS Series Washdown

## Standard Features

- Stainless steel, IP65 top housing
- Large, 18 mm LCD with backlight
- Selectable modes
- 13 units of measurement
- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Washdown with IP65 rating
- 115 VAC adapter included (230 VAC optional)
- Semi-automatic calibration, external weight
- RS-232 interface for connecting to printer or PC

## OPTIONS

- Battery holder
- Underweigh hook
- Waterproof RS-232 cable

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound (See technical manual for complete listing)

## Operating Modes:

Weight, Count, Percentage, Limit Function (Checkweighing)

## Power:

120 VAC (adapter included)

## Battery Option:

Nickel-cadmium battery, 12-hour run time, 24-hour charge time

## RS-232 Baud Rate:

1200/2400/2800/9600;  
Data bits - 8, Connector-DIN 5-pin

## Calibration Weight:

TP-620: 600 g  
TP-6200: 6,000 g  
TP-8200: 8,000 g

## Operating Temperature:

41 °F to 95 °F (5 °C to 35 °C)

## Est. Weight:

6.2 lb (2.8 kg)

## Warranty:

Five-year limited

## Return Policy:

Rice Lake standard policy

Model	Capacity	Resolution	Calibration	Part #	List Price
TS-620	620 g	0.01 g	600 g	108156	\$1,515.00
TS-6200	6,200 g	0.1 g	6,000 g	108157	\$1,630.00
TS-8200	8,200 g	0.1 g	8,000 g	112182	\$1,712.00

## Options/Accessories

Part#	Description	Price
108499	AC adapter, multi-range 110:230 V AC, 6 V DC	\$58.00
72440	9-pin D-sub F-25-Pin D-sub connector	\$67.00
22436	9-pin D-sub F to blunt end	\$70.00
66535	Null modem cable	\$46.00
119064	Slimline adapter, null modem gender changer	\$12.50
109236	Underweigh hook	\$30.00
109238	Waterproof RS-232 cable	\$400.00
109050	Additional operating manual	\$18.00
112611	Battery operator manual	\$7.00
112516	Battery holder option, requires Four AA batteries (not included)	\$121.00
119919	AbleCable, requires null modem cable PN 66535	\$190.00



PN 108499 Multi-range AC adapter and multi-plug



# TOPLOADER TP Series

## Standard Features

- External weight calibration
- Large, 16.5 mm-high backlit liquid crystal display (LCD)
- Mono-metal tuning fork sensor (MMTS) provides quick response and stability 20-step bar graph display
- One part in 620,000 resolution
- RS-232 interface for connecting to printer or PC
- Plastic housing on models < 1,000 g
- Plastic top and die-cast bottom on models > 1,000 g

## OPTIONS

- Rechargeable battery
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound (See technical manual for complete listing)

### Operating Modes:

Weight, Count, Percentage, Limit Function (Checkweighing)

### Power:

120 VAC (adapter included)

### Battery Option:

Nickel-cadmium battery, 12-hour run time, 24-hour charge time

### RS-232 Baud Rate:

1200/2400/2800/9600;  
Data bits - 8, connector-DIN 5-pin

### Calibration Weight:

TP-220: 200 g  
TP-820: 800 g  
TP-3200: 3,000 g  
TP-8200: 8,000 g  
TP-12K: 12,000 g

### Operating Temperature:

41 °F to 95 °F (5 °C to 35 °C)

### Est. Weight:

6.2 lb (2.8 kg)

### Warranty:

Five-year limited

### Return Policy:

Rice Lake standard policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
TP-220	220 g	0.001 g	1 division	1 division	Ø 4.6 in (117 mm)	3.7 × 5.5 × 3.7 in (95 × 140 × 95 mm)	9.2 × 7.1 × 6.6 in (including draft shield) (235 × 182 × 170 mm)	107244	\$1,166.00
TP-820	820 g	0.01 g	1 division	1 division	6.6 in × 5.5 in (168 × 140 mm)	N/A	9.2 × 7.1 × 2.9 in (235 × 182 × 75 mm)	107245	\$1,166.00
TP-3200	3,200 g	0.01 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	107246	\$1,314.00
TP-8200	8,200 g	0.1 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	107247	\$1,166.00
TP-12K	12,000 g	0.1 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	107248	\$1,345.00

## Options/Accessories

Part #	Description	Price
107249	Rechargeable battery ≤TP-820	\$121.00
107237	Rechargeable battery ≥TP-3200	\$121.00
107250	In-use dust cover ≥TP-3200	\$30.00
107240	In-use dust cover ≤TP-820	\$30.00
109236	Underweigh hook ≤TP-820	\$30.00
109292	Underweigh hook ≥TP-3200	\$30.00
42566	115 V AC adapter/12 V DC	\$76.00
42168	230 V AC adapter	\$82.00
107251	Additional operating manual	\$18.00
75351	WinWedge® Tal software	\$345.00
115303	5-pin to 9-pin DB female RS-232 cable	\$111.00



## TOPLOADER

## TC Series

## Standard Features

- Large, 16.5 mm-high, backlit liquid crystal display (LCD)
- 12 units of measurement
- Mono-metal tuning fork sensor (MMTF) provides quick response and stability
- 20-step bar graph display
- Semi-automatic calibration, external weight
- Plastic housing on models <1,000 g
- Plastic top and die-cast bottom on models >1,000 g

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound (See technical manual for complete listing)

## Operating Modes:

Weight, Count, Percentage, Limit Function (Checkweighing)

## Power:

115 VAC adapter included (230 VAC optional)

## Operating Temperature :

41 °F to 95 °F (5 °C to 35 °C)

## Calibration Weight:

TC-620: 600 g  
TC-1200: 1,200 g  
TC-4200: 4,000 g  
TC-6200: 6,200 g

## Est. Weight:

TC-620: 2.9 lb (1.3 kg)  
TC-1200: 2.9 lb (1.3 kg)  
TC-4200: 5.9 lb (2.7 kg)  
TC-6200: 5.9 lb (2.7 kg)

## Warranty:

Five-year limited

## Return Policy:

Rice Lake standard policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
TC-620	620 g	0.01 g	1 division	1 division	Ø 5.5 in (140 mm)	9.2 × 7.1 × 2.9 in (234 × 180 × 74 mm)	107232	\$815.00
TC-1200	1,200 g	0.1 g	1 division	1 division	6.7 × 5.6 in (170 × 142 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	107233	\$750.00
TC-4200	4,200 g	0.1 g	1 division	1 division	7 × 6.2 in (178 × 158 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	107234	\$815.00
TC-6200	6,200 g	0.1 g	1 division	1 division	7 × 6.2 in (178 × 158 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	107235	\$878.00

## Options/Accessories

Part #	Description	Price
107236	Rechargeable battery TC-620, TC-1200, 32 hr	\$121.00
107237	Rechargeable battery TC-4200, TC-6200, 32 hr	\$121.00
107238	RS-232 option with DIN-5-pin connector (not compatible with battery option) (TC-620, TC-1200)	\$150.00
107239	RS-232 option with DIN-5-pin connection (not compatible with battery option) (TC-4200,TC-6200)	\$150.00
107240	In-use dust cover, 620 g to 1,200 g	\$30.00
107250	In-use dust cover, 4,200 g to 6,200 g	\$30.00
109236	Underweigh hook TC-620, TC-1200	\$30.00
109292	Underweigh hook TC-4200, TC-6200	\$30.00
42566	120 V AC adapter/12 V DC	\$76.00
42168	230 V AC adapter	\$82.00
107243	Additional operating manual	\$18.00
75351	WinWedge® software	\$345.00
115303	5-pin DIN to DB9F RS-232 cable	\$111.00
115148	RS-232 manual	\$7.00



## Standard Features

- LCD display
- Quick response
- Accumulation, counting and percentage modes
- 13 different units of measure
- Detachable enclosed weighing chamber (in capacities = 1 kg)
- Battery operation for up to 40 hours of continuous use (without backlight)
- RS-232 interface for connecting to printer or PC
- Plastic enclosure

## Specifications

### Weighing Units:

Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain (see technical manual for complete listing)

### Operating Modes:

Weighing, Percent Weighing, Parts Counting, Accumulation

### Power:

AC adapter (12V/500 mA); internal rechargeable battery (6V/1.2 Ah)

### Stabilization Time:

2 seconds

### Operating Temperature:

32 °F to 104 °F (0 °C to 40 °C)

### Calibration Weight:

EQ-300: 300 g, EQ-600: 600 g, EQ-1500: 1,500 g  
EQ-3000: 3,000 g, EQ-6000: 6,000 g

### Est. Weight:

6.6 lb (3 kg)

### Battery Life:

Up to 40 hours of continuous use (without backlight)

### Return Policy:

Rice Lake standard policy

### Warranty:

One-year limited

### Approval:

CE Approved



Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Part #	List Price
EQ-300	300 g	0.01 g	0.01 g	0.02 g	6.7 × 5.7 × 3.1 in (170 × 145 × 80 mm)	Ø 4.7 in (Ø 120 mm)	165338	\$321.00
EQ-600	600 g	0.02 g	0.02 g	0.04 g	6.7 × 5.7 × 3.1 in (170 × 145 × 80 mm)	Ø 4.7 in (Ø 120 mm)	165339	\$321.00
EQ-1500	1,500 g	0.05 g	0.05 g	0.1 g	N/A	4.8 × 5.6 in (122 × 142 mm)	165340	\$321.00
EQ-3000	3,000 g	0.1 g	0.1 g	0.2 g	N/A	4.8 × 5.6 in (122 × 142 mm)	165341	\$321.00
EQ-6000	6,000 g	0.2 g	0.2 g	0.4 g	N/A	4.8 × 5.6 in (122 × 142 mm)	165342	\$321.00

## Options/Accessories

Part#	Description	Price
41279	Printer cable, DB9M to 25-pin M	\$70.00
103142	SP742 dot matrix printer, tear bar	\$520.00
119919	AbleCable RS-232/USB cable (requires 130789)	\$190.00
130789	Slim line null modem adapter	\$14.50
131135	Aluminum case	\$103.00
165183	AC adapter, 110-240 V AC, interchangeable plugs	\$46.00



PN 165183 Multi-range AC adapter and multi-plug





# MASS COMPARATOR

## MC Series

### Standard Features

- Super hybrid sensor technology
- Bright VFD display
- Manage ASTM and OIML weights
- Built-in calibration weight
- GLP/LIM/ISO compliant
- RS-232 interface for connecting to printer or PC
- Underweigh hook

### Specifications

#### Weighing Units:

Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Pound/Ounce (See technical manual for complete listing)

#### Operating Modes:

Weighing, Percentage, Comparator

#### Power:

120/240 AC adapter

#### Stabilization Time:

5 seconds

#### Sensitivity Drift (10 °C to 30 °C):

MC-1000S, MC-6100, MC-10K:  $\pm 2$  ppm/°C  
MC-30K:  $\pm 3$  ppm/0 °C

#### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

#### Calibration Weight:

MC-1000S: 1,000 g  
MC-6100: 6,000 g  
MC-10K: 10 kg  
MC-30K: 30 kg

#### Est. Weight:

MC-1000S: 4.6 kg  
MC-6100: 5.1 kg  
MC-10K and MC-30K: 9.3 kg

#### Warranty:

Five-year limited

#### Return Policy:

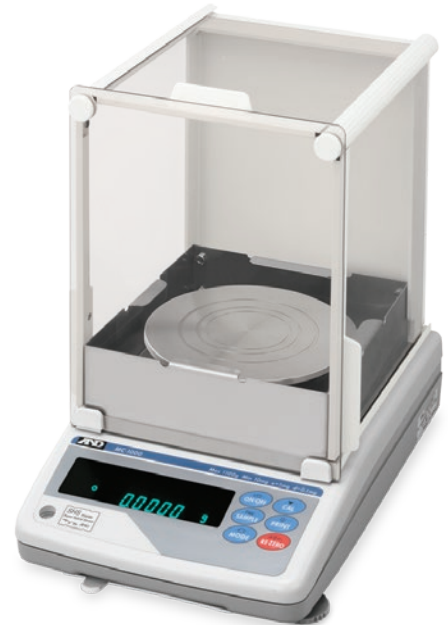
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MC-1000S	1,100 g	0.1 mg	0.0005 g / 1 kg / 0.0004 g / 500 g	$\pm 0.002$ g	5.04 × 5.04 in (128 × 128 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	151262	\$7,425.00
MC-6100	6,100 g	0.001 g	0.004 g / 5 kg / 0.0015 g / 2 kg	$\pm 0.02$ g	5.79 × 5.79 in (147 × 147 mm)	10.63 × 8.27 in (270 × 210 mm)	151263	\$7,425.00
MC-10K	10.1 kg	0.001 g	0.005 g / 10 kg / 0.004 g / 5 kg	$\pm 0.03$ g	10.63 × 8.27 in (270 × 210 mm)	11.81 × 13.80 × 4.37 in (300 × 355 × 111 mm)	151264	\$8,900.00
MC-30K	31 kg	0.01 g	0.015 g / 20 kg	$\pm 0.2$ g	10.63 × 8.27 in (270 × 210 mm)	10.63 × 10.63 in (270 × 210 mm)	151265	\$8,900.00

### Options/Accessories

Part #	Model #	Description	Price
151266	AX-MC1000PAN	Auto center pan, MC-1000S	\$1,390.00
151267	AX-MC6100PAN	Auto center pan, MC-6100	\$1,390.00
151268	AX-MC10K-30KPAN	Auto center pan, MC-10/30K	\$1,770.00
151247	AD-1688	Data logger	\$370.00
97649	TB-648	AC adapter (120 V/220 V)	\$53.00
97695*	GX-04	Comparator output, factory installed	\$960.00
97696*	GX-06	Analog output, factory installed	\$1,010.00
97699	GX-12	Animal weigh pan	\$205.00
97700	GX-13	Density determination for MC-1000S	\$695.00
97607	AD-1682	External rechargeable battery pack	\$815.00
97612	SW-128	Foot switch	\$100.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\* Only one option may be installed and requires factory installation



# MICRO / SEMI-MICRO Ion BM Series

## Standard Features

- Built-in fanless static eliminator
- Anti-static glass
- Weighing chamber
- Built-in motorized calibration weight
- One-touch environmental filters
- GLP/LIM/ISO compliant
- RS-232C and WinCT© software standard
- AD-1688 Weighing Data Logger included
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce (See technical manual for complete listing)

### Operating Modes:

Percentage, Counting

### Power:

120/240 AC adapter

### Stabilization Time:

BM-20: 10 seconds (typically)  
BM-22: 8 to 10 seconds  
BM-252: 8 seconds

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C (when automatic self-calibration is not used)

### Calibration Weight:

BM-20 and BM-22: 20 g  
BM-252: 200 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C), 85% RH or less (no condensation)

### Est. Weight:

10 kg (ships by motor freight)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BM-20	22 g	0.000001 g	0.0025 mg	±0.010 mg	Ø 0.98 in (25 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150762	\$19,525.00
BM-22	22 g / 5.1 g	0.00001 g / 0.000001 g	0.004 mg / 0.01 mg	±0.010 mg / 0.02 mg	Ø 0.98 in (25 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150763	\$18,550.00
BM-252	250 g	0.00001 g	0.03 mg	±0.010 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150765	\$9,875.00

## Options/Accessories

Part #	Model #	Description	Price
150769	BM-08	Balance OPT, Ethernet BM	\$350.00
97606	AD-1653	Density determination kit (BM-252/200/300/500 only)	\$675.00
97609	AD-8922A	Remote controller	\$765.00
97608	AD-8920A	Universal remote display	\$325.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



MICRO / SEMI-MICRO

# Phoenix GH Series

## Standard Features

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliant which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal calibration mass; full digital calibration
- System diagnostic to alert operator of abnormal weighing conditions
- Weighing chamber
- RS-232 interface for connecting to printer or PC
- Data memory function
- Time and date function
- WinCT<sup>©</sup> communication tools software
- Liquid crystal display (LCD)
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy ounce, Decimal Ounce  
(See technical manual for complete listing)

### Operating Modes:

Percentage, Counting

### Power:

120 V AC (AC adapter) 50 Hz/60 Hz, 11 VA (110, 220, 240 available by special order)

### Stabilization Time:

Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C (when automatic self-calibration is not used)

### Calibration Weight:

20 g/50 g/100 g/200 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less  
(no condensation)

### Est. Weight:

Approx. 18 lb (8.2 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GH-202	220 g / 51 g	0.0001 / 0.00001 g	±0.2 mg / ±0.03 mg	0.1 mg / 0.02 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97601	\$6,100.00
GH-252	250 g / 101 g	0.0001 / 0.00001 g	±0.2 mg / ±0.10 mg	0.1 mg / 0.03 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97602	\$6,700.00

## Options/Accessories

Part#	Model#	Description	Price
97604	GH-08	Ethernet option for GH	\$350.00
97605	AD-100-2	Anti-theft device	\$90.00
97606	AD-1653	Density determination kit	\$675.00
97607	AD-1682	Rechargeable battery pack, external	\$815.00
97608	AD-8920A	Universal remote display	\$325.00
97609	AD-8922A	Remote controller	\$765.00
97610	AD-1683	Static eliminator	\$1,440.00
151247	AD-1688	Data logger	\$370.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00



# Gemini GR Series

## Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy-access door system
- Automatic self-calibration
- Data memory function
- Weighing chamber
- Internal calibration
- Liquid crystal display (LCD)
- RS-232 interface for connecting to printer or PC
- WinCT<sup>®</sup> communication tools software
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce  
(See technical manual for complete listing)

### Operating Modes:

Percentage, Counting

### Power:

120 V AC (AC adapter) 50Hz/60 Hz, 11 VA (110, 220, 240 VAC adapter by special order)

### Stabilization Time:

Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/ °C (when automatic self-calibration is not used)

### Calibration Weight:

100 g/200 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less  
(no condensation)

### Est. Weight:

Approx. 13.2 lb (6.0 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GR-202	210 / 42 g	0.0001 / 0.00001 g	0.0001 / 0.00002 g	±0.0002 / ±0.00003 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	97628	\$5,625.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	\$90.00
97606	AD-1653	Density determination kit	\$675.00
97607	AD-1682	Rechargeable battery pack	\$815.00
97608	AD-8920A	Universal remote display	\$325.00
97609	AD-8922A	Remote controller	\$765.00
97610	AD-1683	Static eliminator	\$1,440.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



## ANALYTICAL

## Ion BM Series

## Standard Features

- Built-in fanless static eliminator
- Anti-static glass
- Weighing chamber
- Built-in motorized calibration weight
- One-touch environmental filters
- GLP/LIM/ISO compliant
- RS-232C and WinCT© software standard
- AD-1688 Weighing Data Logger included
- Underweigh hook

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce (See technical manual for complete listing)

## Operating Modes:

Percentage, Counting

## Power:

120/240 AC adapter

## Stabilization Time:

BM-200, BM-300, BM-500: approx. 3.5 seconds

## Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C (when automatic self-calibration is not used)

## Calibration Weight:

BM-200: 200 g

BM-300: 300 g

BM-500: 500 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C), 85% RH or less (no condensation)

## Est. Weight:

10 kg (ships by motor freight)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BM-200	220 g	0.0001 g	0.1 mg	±0.2 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150766	\$5,250.00
BM-300	320 g	0.0001 g	0.2 mg	±0.3 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150767	\$5,475.00
BM-500	520 g	0.0001 g	0.2 mg	±0.5 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	150768	\$7,625.00

## Options/Accessories

Part #	Model #	Description	Price
150769	BM-08	Balance OPT, Ethernet BM	\$350.00
97606	AD-1653	Density determination kit	\$675.00
97609	AD-8922A	Remote controller	\$765.00
97608	AD-8920A	Universal remote display	\$325.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



## Standard Features

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliant which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal calibration mass; full digital calibration
- System diagnostic to alert operator of abnormal weighing conditions
- Weighing chamber
- RS-232 interface for connecting to printer or PC
- Data memory function
- Time and date function
- WinCT<sup>©</sup> communication tools software
- Liquid crystal display (LCD)
- Underweigh hook

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce  
(See technical manual for complete listing)

### Operating Modes:

Percentage, Counting

### Power:

120 V AC (AC adapter) 50 Hz/60 Hz, 11 VA (110, 220, 240 available by special order)

### Stabilization Time:

Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

### Sensitivity Drift (10° C to 30° C):

±2 ppm/° C (when automatic self-calibration is not used)

### Calibration Weight:

GH-120: 50 g/100 g  
GH-200: 100 g/200 g  
GH-300: 100 g/200 g/300 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
85% RH or less (no condensation)

### Est. Weight:

Approx. 18 lb (8.2 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GH-120	120 g	0.0001 g	±0.2 mg	0.1 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97597	\$4,050.00
GH-200	220 g	0.0001 g	±0.2 mg	0.1 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97599	\$4,575.00
GH-300	320 g	0.0001 g	±0.3 mg	0.2 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97600	\$5,425.00

## Options/Accessories

Part #	Model #	Description	Price
97604	GH-08	Ethernet option	\$350.00
97605	AD-100-2	Anti-theft device	\$90.00
97606	AD-1653	Density determination kit	\$675.00
97607	AD-1682	Rechargeable battery pack, external	\$815.00
97608	AD-8920A	Universal remote display	\$325.00
97609	AD-8922A	Remote controller	\$765.00
97610	AD-1683	Static eliminator	\$1,440.00
151247	AD-1688	Data logger	\$370.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00



## ANALYTICAL

## Gemini GR Series

## Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy-access door system
- Automatic self-calibration
- Data memory function
- Weighing chamber
- Internal calibration
- Liquid crystal display (LCD)
- RS-232 interface for connecting to printer or PC
- WinCT<sup>©</sup> communication tools software
- Underweigh hook

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce  
(See technical manual for complete listing)

## Operating Modes:

Percentage, Counting

## Power:

120 V AC (AC adapter) 50Hz/60 Hz, 11 VA (110, 220, 240 VAC adapter by special order)

## Stabilization Time:

Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

## Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C (when automatic self-calibration is not used)

## Calibration Weight:

GR-120: 50 g/100 g  
GR-200: 100 g/200 g  
GR-300: 200 g/300 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less  
(no condensation)

## Est. Weight:

13.2 lb (6.0 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GR-120	120 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	97625	\$3,500.00
GR-200	210 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	97626	\$3,975.00
GR-300	310 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	97627	\$4,950.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	\$90.00
97606	AD-1653	Density determination kit	\$675.00
97607	AD-1682	Rechargeable battery pack	\$815.00
97608	AD-8920A	Universal remote display	\$325.00
97609	AD-8922A	Remote controller	\$765.00
97610	AD-1683	Static eliminator	\$1,440.00
97612	SW:128	Foot switch	\$100.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



# ANALYTICAL HR-AZ/A Series

## Standard Features

- Fast stabilization time
- One-touch calibration in HR-AZ models
- Compact size
- Weighing chamber
- Rotary sliding doors
- Removable breeze break with anti-static coating
- GLP/GMP/GCP/ISO compliant

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce  
(See technical manual for complete listing)

### Operating Modes:

Weighing, Percent Weighing, Parts Counting, Density

### Power:

120/240 AC adapter

### Stabilization Time:

3 seconds

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C), 85% RH or less  
(no condensation)

### Calibration Weight:

HR-100A and HR100AZ: 200 g  
HR-150A and HR-150AZ: 150 g  
HR-250A and HR-250AZ: 100 g

### Est. Weight:

8.6 lb (3.9 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
HR-100A	102 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150777	\$2,090.00
HR-100AZ	102 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150779	\$2,575.00
HR-150A	152 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150780	\$2,200.00
HR-150AZ	152 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150781	\$2,700.00
HR-250A	252 g	0.0001 g	<200 mg 0.1 mg / >200 mg 0.2 mg	± 0.3 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150782	\$2,400.00
HR-250AZ	252 g	0.0001 g	<200 mg 0.1 mg / >200 mg 0.2 mg	± 0.3 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	150783	\$2,875.00

## Options/Accessories

Part#	A&D Model#	Description	Price
151247	AD-1688	Data logger	\$370.00
98027*	FXi-02	Quick USB interface with cable	\$105.00
98028*	FXi-08	Ethernet interface with WINCT© Plus	\$350.00
98029*	FXi-09	Rechargeable battery	\$390.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00

\*Only one option may be installed and factory installation required





## ANALYTICAL

## Orion HR Series

## Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
  - System diagnostics to alert the operator of abnormal weighing conditions
  - RS-232C bidirectional interface (option for HR-60, HR-120 and HR-200; standard for HR-300i and HR-202i)
  - Weighing chamber
  - Liquid crystal display (LCD)
  - WinCT<sup>®</sup> communication tools software
  - Underweigh hook
- Note: Orion HR series does have internal calibration*

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce  
(See technical manual for complete listing)

## Operating Modes:

Percentage, Counting

## Power:

120 V AC (AC adapter) 50 Hz/60 Hz (110, 220, 240 V  
AC adapter available by special order)

## Stabilization Time:

Approx. 3.5 seconds

## Sensitivity Drift (10 °C to 30 °C):

±2 ppm/ °C (when automatic self-calibration  
is not used)

## Calibration Weight:

300 g/200 g/100 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
85% RH or less  
(no condensation)

## Est. Weight:

Approx. 17.6 lb (8.0 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy -  
restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
HR-300i	320 g	0.0001 g	±0.0003 mg	0.0002 mg	6.45 × 5.84 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	97642	\$4,725.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	\$90.00
97606	AD-1653	Density determination kit	\$675.00
97607	AD-1682	Rechargeable battery pack	\$815.00
97608	AD-8920A	Universal remote display	\$325.00
97610	AD-1683	Static eliminator	\$1,440.00
97609	AD-8922A	Remote controller	\$765.00
97649	TB-648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



# ANALYTICAL AD-4212A Series

## Standard Features

- Comparator output (Hi/OK/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time and date clock function
- Data memory function for weighing, calibration, counting and Hi/OK/Lo values
- Super Hybrid Sensor Technology (SHS)
- WinCT<sup>®</sup> communication tools software
- RS-232 interface for connecting to printer or PC

## Specifications

### Weighing Units:

Milligram, ounce, carat, pennyweight, troy ounce, grain (see technical manual for complete listings)

### Operating Modes:

Counting, percentage

### Power Supply:

120 VAC adapter, 11 VA

### Stabilization Time (typical):

AD-4212A-100, AD-4212B-102:  
0 to 30 g approx. 1.3 seconds  
30 to 110 g approx. 1.3 seconds

### I/O Interface Comparator Output:

3 level output with buzzer

### I/O Interface External Contact Input:

Re-zero and print

### Calibration Weight:

50 g

### Connection Cable:

Approx. 2 m (between weighing unit and display unit)

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

### Est. Weight:

8.5 lb (4 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AD-4212A-100	110 g	0.1 mg	0.15 g	±0.3 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	97654	\$6,500.00
AD-4212B-102	110 g	0.01 mg	0.15 g	±0.3 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	102925	\$10,050.00
AD-4212B-201	210 g	0.1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	102926	\$7,700.00
AD-4212B-301	310 g	0.1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	102927	\$8,550.00

## Options/Accessories

Part#	A&D Model #	Description	Price
97672	AD-4212A-01	BCD output (factory installed, four month lead time)	\$615.00
97674	AD-4212A-07	Extension cable, 3m	\$180.00
97675	AD-4212A-08	Ethernet interface with WinCT <sup>®</sup>	\$350.00
97676	AD-4212A-19	Stainless steel breeze break (200 g only)	\$130.00



## ANALYTICAL

## Apollo GF Series

## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underhook weighing

## Specifications

## Weighing Units:

Gram, Ounce, Pound, Pound/Ounce, Troy Ounce, Grain (See technical manual for complete listing)

## Operating Modes:

Weigh, Count and Percent

## Power:

110/220V VAC adapter

## Stabilization Time:

Approx. 1 second (typical in FAST mode)

## Calibration Weight:

GF-124A: 100 g  
GF-224A: 200 g  
GF-324A: 300 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)

## Est. Weight:

11 lb (5.2 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-124A	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200327	\$2,775.00
GF-224A	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200328	\$3,025.00
GF-324A	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200329	\$3,575.00

## Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output (includes 192673)	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192675	GXA-10	Large glass breeze break	\$385.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1mg models only)	\$595.00
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$1,670.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



Apollo GF-324A

# ANALYTICAL Apollo GX Series

## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal calibration weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Under weigh hook

## Specifications

### Weighing Units:

Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain (See technical manual for complete listing)

### Operating Modes:

Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation

### Power:

120 VAC adapter, Approx. 30 VA

### Stabilization Time:

GX-124A: Approx. 1.5 seconds  
GX-124AE: Approx. 2 seconds  
GX-224A, GX-224AE: Approx. 1 second  
GX-324A, GX-324AE: Approx. 2 seconds

### Display Refresh Rate:

5 times/second, 10 times/second, 20 times/second

### Calibration Weight:

GX-124A, GX-124AE: 100 g  
GX-224A, GX-224AE, GX-324A, GX-324AE: 200 g

### Ionizer (fanless):

AE versions come standard with built-in fanless ionizer with external touchless sensor

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) RH less than 85% (no condensation)

### Est. Weight:

18 lb (8 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GX-124A	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200330	\$3,300.00
GX-124AE	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200334	\$4,625.00
GX-224A	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200332	\$3,550.00
GX-224AE	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200335	\$4,825.00
GX-324A	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200333	\$3,975.00
GX-324AE	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) <i>Includes Large Glass Breeze Break</i>	200336	\$5,175.00

## Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output (includes 192673)	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192675	GXA-10	Large glass breeze break	\$385.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1 mg models only)	\$595.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



LEGAL FOR TRADE

# GF-P Series

## Standard Features

- Pill-counting feature also complies with Handbook 44 requirements
- Fast, Super Hybrid Sensor (SHS) gives you the ultimate in response speed; just one second
- GLP/GMP/ISO compliance
- WinCT<sup>©</sup> communication tools software included
- Weighing chamber
- Tough die-cast aluminum housing
- Removable stainless steel pan 5 × 5 in (127 × 127 mm)
- NTEP Certified and Pharmacopoeia approved
- IP54 splash proof operator keyboard protects against dust and spills, stainless steel weigh pan
- Data memory function
- Vacuum Fluorescent Display (VFD)
- RS-232 interface for connecting to printer or PC

## Specifications

### Weighing Units:

Gram, Ounce, Pound, Pound/Ounce, Troy Ounce, Grain (See technical manual for complete listing)

### Operating Modes:

Weigh, Count and Percent

### Power:

110/220V VAC adapter

### Stabilization Time:

Approx. 1 second (typical in FAST mode)

### Decimal Ounce:

GF-200P: 7.40755 × 0.00005 oz  
GF-300P: 10.93493 × 0.00005 oz

### Calibration Weight:

GF-200P, GF-300P: 200 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)

### Est. Weight:

11 lb (5.2 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

### Approvals:

NTEP CC 04-077 e=0.01 g



Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-200P	210 g	0.001 g	0.001 g	±0.002 g	3.6 in H (92 mm)	5 × 5 in (127 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	97799	\$1,600.00
GF-300P	310 g	0.001 g	0.001 g	±0.002 g	3.6 in H (92 mm)	5 × 5 in (127 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	97800	\$1,900.00

## Options/Accessories

Part #	A&D Model #	Description	Price
102891	GX-02	USB option	\$180.00
97697	GX-10	Glass breeze break for GF-200 and 300	\$325.00
97703	AX:073003691-S	Protective in-use cover for GF-200/300 (each)	\$26.50
97649	TB:648	AC adapter (120 V/220 V) standard with unit	\$53.00



# LEGAL FOR TRADE FX-i Series

## Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Under weigh hook

## OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT<sup>®</sup> communication tools software

## Specifications

### Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce (See technical manual for complete listings)

### Operating Modes:

Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator

### Power Consumption:

120/240 VAC adapter, approx. 11 VA

### Stabilization Time:

Approx. 1 second

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C (when automatic self-calibration is not used)

### Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
85% RH or less

### Calibration Weight:

FX-300i: 300 g  
FX-1200i: 1,000 g

### Est. Weight:

8 lb (3.5 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

### Approvals:

NTEP 08-045A4  
Measurement Canada AM-5692



Measurement  
Canada  
Approved

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>NTEP Certified</b>								
FX-1200iIN	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	<b>163641</b>	\$1,340.00
<b>Measurement Canada Approved</b>								
FX-300iNC	320 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	<b>168077</b>	\$1,420.00
FX-1200iNC	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	<b>168076</b>	\$1,340.00

## Options/Accessories

Part #	A&D Model #	Description	Price
<b>98027*</b>	FXi-02	Quick USB interface	\$105.00
<b>98028*</b>	FXi-08	Ethernet interface with WinCT <sup>®</sup> Plus software	\$350.00
<b>98029*</b>	FXi-09	Built-in rechargeable battery	\$390.00
<b>98030</b>	FXi-10	Small breeze break	\$95.00
<b>98031</b>	FXi-11	Large breeze break	\$160.00
<b>97649</b>	TB:648	AC adapter (120 V/220 V)	\$53.00
<b>151247</b>	AD-1688	Data logger	\$370.00
<b>196128</b>	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\*Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.



# LEGAL FOR TRADE

## EK-i Series

### Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCad battery option
- RS-232 interface for connecting to printer or PC

### Specifications

#### Weighing Units:

Carat, Pennyweight, Troy Ounce, Newton, Decimal Ounce, Decimal Pound

#### Operating Modes:

Counting, Percentage

#### Power:

120 VAC adapter (Optional Ni-MH battery pack)

#### Stabilization Time:

< 2 seconds

#### Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C (when automatic self-calibration is not used)

#### Display Type:

7 segment LCD with backlight  
(character height 16 mm)

#### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C) less than 85% R.H.  
(non-condensing)

#### Calibration Weight:

EK-600i: 400 g  
EK-1200i: 1,200 g  
EK-6000i: 6,000 g  
EK-12i: 12 kg

#### Est. Weight:

3.5 lb (1.5 kg)

#### Warranty:

Five-year limited

#### Return Policy:

A&D Weighing standard policy -  
restock fee may apply

#### Approvals:

NTEP CC-04-019A3



Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>NTEP Certified</b>								
<b>EK-600i</b>	600 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	<b>97752</b>	\$620.00
<b>EK-1200i</b>	1,200 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	<b>97753</b>	\$615.00
<b>EK-6000i</b>	6,000 g	1 g	1 g	±1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	<b>97758</b>	\$665.00
<b>EK-12i</b>	12,000 g	1 g	1 g	±1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	<b>97759</b>	\$840.00

### Options/Accessories

Part #	A&D Model #	Description	Price
<b>97760</b>	EKW-04i	Comparator/relay outputs/buzzer	\$200.00
<b>97761</b>	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$63.00
<b>97762</b>	EKW-09i	NiCad battery pack	\$255.00
<b>97764</b>	AX:3005824-5S	Protective dust cover (not in use)	\$15.75
<b>97605</b>	AD-100-2	Anti-theft device	\$90.00
<b>97766</b>	TB:662	AC adapter (120 V)	\$47.50
<b>97767</b>	TB:164	AC adapter (240 V)	\$69.00
<b>151247</b>	AD-1688	Data logger	\$370.00



### Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCad battery option
- RS-232 interface for connecting to printer or PC
- Triple range

### Specifications

#### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound

#### Operating Mode:

Counting, Percentage, Comparator

#### Power:

AC adapter or Ni-MH battery pack (option)

#### Stabilization Time:

< 2 seconds

#### Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C (when automatic self-calibration is not used)

#### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C) less than 85% R.H. (non-condensing)

#### Calibration Weight:

EW-1500i: 1,500 g  
EW-12Ki: 12 kg

#### Est. Weight:

3.5 lb (1.5 kg)

#### Warranty:

Five-year limited

#### Return Policy:

A&D Weighing standard policy - restock fee may apply

#### Approvals:

NTEP CC 04-019A3



Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>NTEP Certified</b>								
EW-1500i	300 g / 600 g / 1,500 g	0.1 g / 0.2 g / 0.5 g	0.1 g / 0.2 g / 0.5 g	±0.1 g / ±0.2 g / ±0.5 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97769	\$500.00
EW-12Ki	3,000 g / 6,000 g / 12,000 g	1 g / 2 g / 5 g	1 g / 2 g / 5 g	±1 g / ±2 g / ±5 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97771	\$500.00

### Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	\$200.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$63.00
97762	EKW-09i	NiCad battery pack	\$255.00
97764	AX:3005824-5S	Protective dust cover (not in use)	\$15.75
97605	AD-100-2	Anti-theft device	\$90.00
97766	TB:662	AC adapter (120 V)	\$47.50
97767	TB:164	AC adapter (240 V)	\$69.00
151247	AD-1688	Data logger	\$370.00



EW-1500i square pan



## PRECISION

## Apollo GX Series

## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal calibration weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Under weigh hook

## Specifications

## Weighing Units:

Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain (See technical manual for complete listing)

## Operating Modes:

Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation

## Power:

120 VAC adapter, Approx. 30 VA

## Stabilization Time:

Approx. 1 second

## Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

## Ionizer (fanless):

AE versions come standard with built-in fanless ionizer with external touchless sensor

## Calibration Weight:

GX-203A, GX-303A: 200 g  
GX-403A: 400 g  
GX-603A: 600 g  
GX-1003A, GX-1603A: 1000 g

## Est. Weight:

18 lb (8 kg)

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
RH less than 85% (no condensation)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GX-203A	220 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191691	\$1,950.00
GX-303A	320 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191692	\$2,160.00
GX-403A	420 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191693	\$2,290.00
GX-603A	620 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191694	\$3,000.00
GX-1003A	1,100 g	0.001 g	0.001 g	±0.003 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191695	\$3,450.00
GX-1603A	1,620 g	0.001 g	0.001 g	±0.003 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191696	\$3,925.00

## Options/Accessories

Part#	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192675	GXA-10	Large glass breeze break	\$385.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1 mg models only)	\$595.00
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$1,670.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



### Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Under weigh hook

### Specifications

#### Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Decimal Ounce, Pound/Ounce

#### Operating Modes:

Counting, Percentage

#### Power:

120/240 VAC adapter

#### Stabilization Time:

Approx. 1.5 seconds (typical in FAST mode)

#### Display Refresh Rate

5 times/second or 10 times/second

#### Calibration Weight:

GF-203A: 200 g  
GF-303A: 300 g  
GF-403A: 400 g  
GF-603A: 600 g  
GF-1003A: 1000 g  
GF-1603A: 1500 g

#### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
RH less than 85% (no condensation)

#### Est. Weight:

18.3 lb (8.3 kg)

#### Warranty:

Five-year limited

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-203A	220 g	0.001 g	0.001 g	±0.002 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191707	\$1,580.00
GF-303A	320 g	0.001 g	0.001 g	±0.002 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191708	\$1,780.00
GF-403A	420 g	0.001 g	0.001 g	±0.003 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191709	\$1,930.00
GF-603A	620 g	0.001 g	0.001 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191710	\$2,270.00
GF-1003A	1,100 g	0.001 g	0.001 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191711	\$2,725.00
GF-1603A	1,620 g	0.001 g	0.002 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191712	\$3,525.00

### Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192675	GXA-10	Large glass breeze break	\$385.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1 mg models only)	\$595.00
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$1,670.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



Apollo GF-1003A

## PRECISION

## FX-iWP Series Washdown

## Standard Features

- Washdown IP65 rating
- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Underhook weighing

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce (see technical manual for complete listings)

## Operating Modes:

Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator

## Power:

120/240 VAC adapter, approx. 11 VA

## Stabilization Time:

Approx. 1 second

## Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C

## Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

## Calibration Weight:

FX-120iWP: 100 g  
FX-200iWP: 200 g  
FX-300iWP: 300 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

## Est. Weight:

8 lb (3.5 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-120iWP	122 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102905	\$1,660.00
FX-200iWP	220 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102906	\$1,740.00
FX-300iWP	320 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102907	\$1,860.00

## Options/Accessories

Part#	A&D Model#	Description	Price
98027*	FXi-02	Quick USB interface	\$105.00
98028*	FXi-08	Ethernet interface with WinCT© Plus software	\$350.00
98029*	FXi-09	Built-in rechargeable battery	\$390.00
98030	FXi-10	Small breeze break	\$95.00
98031	FXi-11	Large breeze break	\$160.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00

\*Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.



# PRECISION FX-i Series

## Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Under weigh hook

## OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT<sup>©</sup> communication tools software
- Note: FXi NTEP and FXi models available by special order (internal calibration)

## Specifications

### Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce (See technical manual for complete listings)

### Operating Modes:

Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator

### Power Consumption:

120/240 VAC adapter, approx. 11 VA

### Stabilization Time:

Approx. 1 second

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C

### Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

### Calibration Weight

FX-120i: 100 g  
FX-200i: 200 g  
FX-300i: 300 g

### Operating Temperature

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

### Est. Weight:

8 lb (3.5 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-120i	122 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98021	\$1,260.00
FX-200i	220 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98022	\$1,310.00
FX-300i	320 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98023	\$1,360.00

## Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	\$105.00
98028*	FXi-08	Ethernet interface with WinCT <sup>©</sup> Plus software	\$350.00
98029*	FXi-09	Built-in rechargeable battery	\$390.00
98030	FXi-10	Small breeze break	\$95.00
98031	FXi-11	Large breeze break	\$160.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\*Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.



## PRECISION

## AD-4212A Series

## Standard Features

- Comparator output (Hi/OK/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time and date clock function
- Data memory function for weighing, calibration, counting and Hi/OK/Lo values
- Super Hybrid Sensor Technology (SHS)
- WinCT<sup>©</sup> communication tools software
- RS-232 interface for connecting to printer or PC

## Specifications

## Weighing Units:

Milligram, Ounce, Carat, Pennyweight, Troy Ounce, Grain (See technical manual for complete listings)

## Operating Modes:

Counting, Percentage

## Power Supply:

120 V AC adapter, 11 VA

## Stabilization Time (typical):

AD-4212A-200, AD-4212B-201: 30 to 210 g approx. 1.0 second  
AD-4212B-301: 30 to 210 g approx. 1.0 second  
AD-4212A-600: 30 to 610 g approx. 1.1 seconds  
AD-4212A-1000: 30 to 1100 g approx. 1.1 seconds

## I/O Interface Comparator Output:

3 level output with buzzer

## I/O Interface External Contact Input:

Re-zero and print

## Calibration Weight (OIML F1) (OPT):

AD-4212A-200, AD-4212B-201, AD-4212B-301: 100 g  
AD-4212A-600, AD-4212A-1000: 200 g

## Connection Cable:

Approx. 2 m (between weighing unit and display unit)

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

## Est. Weight:

8.5 lb (4 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AD-4212A-200	210 g	1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	97655	\$5,725.00
AD-4212A-600	610 g	1 mg	1 mg	±3 mg	2.8 × 2.8 in (70 × 70 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	97656	\$6,300.00
AD-4212A-1000	1,100 g	1 mg	1 mg	±3 mg	2.8 × 2.8 in (70 × 70 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	97657	\$6,550.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97672	AD-4212A-01	BCD output (factory installed, four month lead time)	\$615.00
97674	AD-4212A-07	Extension cable, 3 m	\$180.00
97675	AD-4212A-08	Ethernet interface with WinCT <sup>©</sup>	\$350.00
97676	AD-4212A-19	Stainless steel breeze break (200 g only)	\$130.00



# TOPLOADER FX-i Series

## Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Under weigh hook

## OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT<sup>©</sup> communication tools software

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Grain, Pound, Ounce, (see technical manual for complete listings)

### Operating Modes:

Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator

### Power Consumption:

120/240 VAC adapter, approx. 11 VA

### Stabilization Time:

Approx. 1 second

### Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C

### Display Refresh Rate

5 times/second, 10 times/second or 20 times/second

### Calibration Weight:

FX-1200i: 1,000 g  
FX-2000i: 2,000 g  
FX-3000i: 3,000 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
85% RH or less (no condensation)

### Est. Weight:

8 lb (3.5 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-1200i	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98024	\$1,290.00
FX-2000i	2,200 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98025	\$1,350.00
FX-3000i	3,200 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	98026	\$1,410.00

## Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	\$105.00
98028*	FXi-08	Ethernet interface with WinCT <sup>©</sup> Plus software	\$350.00
98029*	FXi-09	Built-in rechargeable battery	\$390.00
98030	FXi-10	Small breeze break	\$95.00
98031	FXi-11	Large breeze break	\$160.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\*Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.



## TOPLOADER

## Apollo GX Series

## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal calibration weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Under weigh hook

## Specifications

## Weighing Units:

Gram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain (See technical manual for complete listing)

## Operating Modes:

Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation

## Power:

120 V AC adapter, Approx. 30 VA

## Stabilization Time:

Approx. 1 sec.

## Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

## Calibration Weight:

GX-2002A, GX-3002A: 2,000 g  
GX-4002A: 4000 g  
GX-6001A, GX-6002A: 5,000 g  
GX-10001A, GX-10002A: 10,000 g

## Est. Weight:

18 lb (8 kg)

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) RH less than 85% (no condensation)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing Standard Policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GX-2002A	2,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191697	\$2,160.00
GX-3002A	3,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191700	\$2,575.00
GX-4002A	4,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191701	\$2,700.00
GX-6001A	6,200 g	0.1 g	0.1 g	±0.01 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191705	\$2,390.00
GX-6002A	6,200 g	0.01 g	0.01 g	±0.03 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191702	\$3,150.00
GX-10001A	10,200 g	0.1 g	0.1 g	±0.01 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191706	\$2,360.00
GX-10002A	10,200 g	0.01 g	0.02 g	±0.03 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191704	\$4,225.00

## Options/Accessories

Part#	A&D Model#	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output (includes 192673)	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1 mg models only)	\$595.00
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$1,670.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



Apollo GX-3002A

## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Under weigh hook

## Specifications

### Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Decimal Ounce, Pound/Ounce

### Operating Modes:

Counting, Percentage

### Power:

120/240 VAC adapter

### Stabilization Time:

Approx. 1.5 seconds (typical in FAST mode)

### Display Refresh Rate:

5 times/second or 10 times/second

### Calibration Weight:

GF-1202A: 1 kg  
 GF-2002A: 2 kg  
 GF-3002A: 3 kg  
 GF-4002A: 4 kg  
 GF-6002A: 6 kg  
 GF-6001A: 6 kg  
 GF-10001A: 10 kg  
 GF-10002A: 10 kg

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) RH less than 85% (no condensation)

### Est. Weight:

18.3 lb (8.3 kg)

### Warranty:

Five-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GF-1202A	1,220 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191713	\$1,600.00
GF-2002A	2,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191714	\$1,640.00
GF-3002A	3,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191715	\$1,700.00
GF-4002A	4,200 g	0.01 g	0.01 g	±0.02 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191716	\$2,180.00
GF-6002A	6,200 g	0.01 g	0.01 g	±0.03 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191717	\$2,675.00
GF-6001A	6,200 g	0.1 g	0.1 g	±0.1 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	192486	\$1,810.00
GF-10001A	10,200 g	0.1 g	0.1 g	±0.1 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	192487	\$1,890.00
GF-10002A	10,200 g	0.01 g	0.1 g	±0.03 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	191718	\$3,275.00

## Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	\$275.00
192663	GXA-04	Comparator output (requires 192667)	\$260.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	\$58.00
192671	GXA-06	Analog output (includes 192673)	\$260.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$545.00
192675	GXA-10	Large glass breeze break	\$385.00
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$175.00
192677	GXA-13	Density determination kit (for 1 mg models only)	\$595.00
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$1,670.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$250.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$245.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$245.00
192682	GXA-24	USB host interface (USB A type)	\$130.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$960.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	\$205.00



Apollo GF-3002A



## TOPLOADER

## FX-iWP Series Washdown

## Standard Features

- Washdown IP65 rating
- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Under weigh hook

## Specifications

## Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce

## Operating Modes:

Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator

## Power:

120/240 VAC adapter, approx. 11 VA

## Stabilization Time:

Approx. 1 second

## Sensitivity Drift (10 °C to 30 °C):

±2 ppm/°C

## Display Refresh Rate:

5 times/second, 10 times/second or 20 times/second

## Calibration Weight:

FX-120iWP: 100 g  
FX-200iWP: 200 g  
FX-300iWP: 300 g

## Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) 85% RH or less (no condensation)

## Est. Weight:

8 lb (3.5 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-1200iWP	1,220 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102908	\$1,650.00
FX-2000iWP	2,200 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102909	\$1,740.00
FX-3000iWP	3,200 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	102910	\$1,850.00

## Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	\$105.00
98028*	FXi-08	Ethernet interface with WinCT <sup>®</sup> Plus software	\$350.00
98029*	FXi-09	Built-in rechargeable battery	\$390.00
98030	FXi-10	Small breeze break	\$95.00
98031	FXi-11	Large breeze break	\$160.00
97649	TB:648	AC adapter (120 V/220 V)	\$53.00

\*Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.



# EJ Newton Series

## Standard Features

- Easy-to-read seven segment LCD display with backlight
- 10 units of measurement
- Battery operated (Four AA not included)
- Selectable modes: weight, count, percentage and specific gravity
- 120 VAC adaptor included (230 VAC optional)



EJ-200

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound (See technical manual for complete listing)

### Operating Modes:

Specific Gravity, Counting, Percentage, Checkweighing

### Power:

120 VAC adapter  
Four AA size dry-cell batteries (not included)  
70 hours operation

### Stabilization Time:

< 2 seconds

### Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C

### Display Type:

Seven segment LCD with backlight (character height 16 mm)

### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C) less than 85% RH (no condensation)

### Calibration Weight:

EJ-123, EJ-120: 100 g  
EJ-200: 200 g  
EJ-300: 300 g  
EJ-410: 400 g  
EJ-610: 600 g  
EJ-1500: 1,500 g  
EJ-2000: 2,000 g  
EJ-3000: 3,000 g  
EJ-4100: 4,000 g  
EJ-6100: 6,000 g

### Est. Weight:

EJ-123, EJ-120, EJ-200, EJ-300, EJ-410, EJ-610: 850 g  
EJ-1500, EJ-2000, EJ-3000, EJ-4100, EJ-6100: 1,100 g

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EJ-123	120 g	0.001 g	0.003 g	0.003 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	163274	\$590.00
EJ-120	120 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112410	\$310.00
EJ-200	210 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112411	\$390.00
EJ-300	310 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112412	\$460.00
EJ-410	410 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112413	\$500.00
EJ-610	610 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112414	\$650.00
EJ-1500	1,500 g	0.1 g	0.1 g	±0.1 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112415	\$310.00
EJ-2000	2,100 g	0.1 g	0.1 g	±0.1 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112416	\$380.00
EJ-3000	3,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112417	\$465.00
EJ-4100	4,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112418	\$520.00
EJ-6100	6,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	112419	\$595.00

## Options/Accessories

Part #	A&D Model #	Description	Price
112426	EJ-02	USB interface with cable	\$105.00
112427	EJ-03	RS-232 interface with cable	\$95.00
112428	EJ-07	Underhook for EJ-3000, EJ-4100 and EJ-6100	\$84.00
112429	EJ-08	Underhook for EJ-1500 and EJ-2000	\$84.00
112430	EJ-11	Breeze break	\$84.00
112431	EJ-12	Carrying case	\$79.00
112432	EJ-13	Density determination kit	\$95.00
97766	TB:662	AC adapter, 120 V	\$47.50
97767	TB:164	AC adapter, 220 V	\$69.00
151247	AD-1688	Data logger	\$370.00



EJ-2000

# TOPLOADER EK-i Series

## Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCad battery option
- RS-232 interface for connecting to printer or PC

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Newton, Decimal Ounce, Decimal Pound

### Operating Modes:

Counting, percentage

### Power:

120 VAC adapter (optional Ni-MH battery pack)

### Stabilization Time:

< 2 seconds

### Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C (when automatic self-calibration is not used)

### Display Type:

Seven segment LCD with backlight  
(character height 16 mm)

### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C) less than 85% RH  
(non-condensing)

### Calibration Weight:

EK-120i: 120 g  
EK-200i: 200 g  
EK-300i: 300 g  
EK-410i: 400 g  
EK-610i: 400 g  
EK-2000i: 2,000 g  
EK-3000i: 3,000 g  
EK-4100i: 4,000 g  
EK-6100i: 6,000 g

### Est. Weight:

3.5 lb (1.5 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EK-120i	120 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97747	\$595.00
EK-200i	200 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97748	\$640.00
EK-300i	300 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97749	\$665.00
EK-410i	400 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97750	\$750.00
EK-610i	600 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97751	\$880.00
EK-2000i	2,000 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97754	\$645.00
EK-3000i	3,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97755	\$700.00
EK-4100i	4,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97756	\$835.00
EK-6100i	6,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97757	\$1,040.00

## Options/Accessories

Part#	A&D Model#	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	\$200.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$63.00
97762	EKW-09i	NiCad battery pack	\$255.00
97764	AX:3005824-5S	Protective dust cover (not in use)	\$15.75
97605	AD-100-2	Anti-theft device	\$90.00
97766	TB:662	AC adapter (120 V)	\$47.50
97767	TB:164	AC adapter (240 V)	\$69.00
151247	AD-1688	Data logger	\$370.00



# TOPLOADER EW-i Series

## Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAD battery option
- RS-232 interface for connecting to printer or PC
- Triple range

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Decimal Ounce, Decimal Pound

### Operating Mode:

Counting, Percentage, Comparator

### Power:

AC adapter or Ni-MH battery pack (option)

### Stabilization Time:

< 2 seconds

### Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C

### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C) less than 85% RH (no condensation)

### Calibration Weight:

150 g

### Est. Weight:

3.5 lb (1.5 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EW-150i	30 g / 60 g / 150 g	0.01 g / 0.02 g / 0.1 g	0.01 g / 0.02 g / 0.05 g	±0.01 g / ±0.02 g / ±0.05 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	97768	\$500.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	\$200.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$63.00
97762	EKW-09i	NiCAD battery pack	\$255.00
97764	AX:3005824-5S	Protective dust cover (not in use)	\$15.75
97605	AD-100-2	Anti-theft device	\$90.00
97766	TB:662	AC adapter (120 V)	\$47.50
97767	TB:164	AC adapter (240 V)	\$69.00
151247	AD-1688	Data logger	\$370.00



## HIGH CAPACITY

## GX-M Series

## Standard Features

- Internal calibration
- Auto environmental compensation
- IP65/NEMA Type 4
- RS-232 interface for connecting to printer or PC
- Data memory function
- Quick reference operation card
- Time and date
- Vacuum Fluorescent Display (VFD)
- Under weigh hook

## Specifications

## Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain,  
Decimal Ounce, Pound/Ounce

## Operating Modes:

Counting, Percentage

## Power:

120 /240 VAC adapter

## Stabilization time:

Approx. 1.5 seconds

## Sensitivity Drift (10 °C to 30 °C / 50 °F to 86 °F):

GX-8202M: ±2 ppm/°C  
GX-8202MD: ±3 ppm/°C  
GX-10202M: ±2 ppm/°C  
GX-12001M, GX-22001M, GX-32001M: ±3 ppm/°C  
GX-32001MD: ±5 ppm/°C

## Calibration Weight:

GX-8202M/MD: 2 kg to 8 kg  
GX-10202M: 2 kg to 10 kg  
GX-12001M: 5 kg, 10 kg  
GX-22001M: 5 kg, 10 kg, 20 kg  
GX-32001M/MD: 5 kg, 10 kg, 20 kg, 30 kg

## Operating Temperature:

41 °F to 104 °F (-5 °C to 40 °C)

## Est. Weight:

18.3 lb (8.3 kg)

## Warranty:

Five-year limited

## Return Policy:

A&D Weighing standard policy -  
restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GX-8202M	8.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207408	\$4,150.00
GX-8202MD	2.2 kg / 8.2 kg	0.01 g / 0.1 g	0.01 g / 0.05 g	±0.02 g / ±0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207409	\$3,625.00
GX-10202M	10.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207410	\$4,450.00
GX-12001M	12.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207411	\$3,775.00
GX-22001M	22.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207412	\$4,075.00
GX-32001M	32.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207413	\$4,700.00
GX-32001MD	6.2 kg / 32.2 kg	0.1 g/1 g	0.1 g / 0.5 g	±0.2 g / ±1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207414	\$3,650.00

## Options/Accessories

Part#	A&D Model#	Description	Price
207431	GX-04K*	Comparator/output and RS-232C/20 mA interface	\$515.00
207432	GX-06K*	Analog output/20 mA interface	\$605.00
97784	GX-07K**	Waterproof cable for standard RS-232C	\$370.00
102899	GXK-12	Animal weighing pan	\$995.00
102898	GXK-31	Draft shield	\$140.00
97605	AD-100-2	Anti-theft device	\$90.00
97785	AX:073007197A	Protective in-use cover	\$26.50
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\*GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time.

IP65 rating does not apply when the GX-04K or the GX-06K is installed.

\*\*Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).



# HIGH CAPACITY GF-M Series

## Standard Features

- IP65/NEMA Type 4
- RS-232 interface for connecting to printer or PC
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Interval time setting
- Under weigh hook

## Specifications

### Weighing Units:

Pound, Carat, Pennyweight, Troy Ounce, Grain, Decimal Ounce, Pound/Ounce Operating Modes Counting, Percentage

### Power:

120/240 VAC adapter

### Stabilization Time:

Approx. 1.5 seconds (typical in FAST mode)

### Sensitivity Drift(10 °C to 30 °C / 50 °F to 86 °F):

GF-8202M: ±2 ppm/°C  
GF-8202MD: ±3 ppm/°C  
GF-10202M: ±2 ppm/°C  
GF-12001M, GX-22001M, GX-32001M: ±3 ppm/°C  
GF-32001MD: ±5 ppm/°C

### Calibration Weight:

GF-8202M/MD: 2 to 8 kg  
GF-10202M: 2 to 10 kg  
GF-12001M: 5 kg, 10 kg  
GF-22001M: 5 kg, 10 kg, 20 kg  
GF-32001M/MD: 5 kg, 10 kg, 20 kg, 30 kg

### Display Refresh Rate:

5 times/second or 10 times/second

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C) RH less than 85% (no condensation)

### Est. Weight:

18.3 lb (8.3 kg)

### Warranty:

Five-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GF-8202M	8.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207415	\$3,950.00
GF-8202MD	2.2 kg/8.2 kg	0.01 g/0.1 g	0.01 g/0.05 g	±0.02 g/±0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207416	\$3,350.00
GF-10202M	10.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207417	\$4,250.00
GF-12001M	12.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207418	\$3,575.00
GF-22001M	22.2 kg	0.1 g	±0.2 g	0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207419	\$3,800.00
GF-32001M	32.2 kg	0.1 g	±0.2 g	0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207420	\$4,450.00
GF-32001MD	6.2/32.2 kg	0.1/1 g	±0.5 g/0.1 g	0.2 g/1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	207422	\$3,350.00

## Options/Accessories

Part#	A&D Model#	Description	Price
207431	GX-04K*	Comparator/output and RS-232C/20 mA interface	\$515.00
207432	GX-06K*	Analog output/20 mA interface	\$605.00
97784	GX-07K**	Waterproof cable for standard RS-232C	\$370.00
102899	GXK-12	Animal weighing pan	\$995.00
102898	GXK-31	Draft shield	\$140.00
97605	AD-100-2	Anti-theft device	\$90.00
97785	AX:073007197A	Protective in-use cover	\$26.50
97649	TB:648	AC adapter (120 V/220 V)	\$53.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00

\*GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time.

IP65 rating does not apply when the GX-04K or the GX-06K is installed.

\*\*Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).



# HIGH CAPACITY GP Series

## Standard Features

- IP65/NEMA Type 4
- Internal calibration weight with manual, interval or auto-environmental compensation
- RS-232 interface for connecting to printer or PC
- Data-collection software
- Auto re-zero function
- Time and date
- Bright blue fluorescent display
- Adjustable swing arm display
- Die -cast aluminum body with stainless weighing pan
- Detached digital weight indicator (KS models only)

## Specifications

### Weighing Units:

Carat, Pennyweight, Troy Ounce, Grain, Decimal Ounce, Decimal Pound, Pound/Ounce

### Operating Modes:

Counting, Percentage

### Power:

Approx. 30 VA (supplied to the AC adapter)

### Stabilization Time:

Approx. 1.5 seconds (typical in FAST mode)

### Sensitivity Drift (-10 °C to 30 °C):

GP-12K, GP-20K, GP-30K, GP-30KS: ±3 ppm/°C  
GP-32K, GP-32KS, GP-40K: ±5 ppm/°C  
GP-60K, GP-60KS, GP-61K, GP-61KS, GP-100K, GP-100KS: ±6 ppm/°C  
GP102K: ±10 ppm/°C

### Height with Column:

652 mm

### Calibration Weight:

GP-12K: 5 kg/10 kg  
GP-20K: 10 kg/20 kg  
GP-30K, GP-30KS, GP-32KS: 20 kg/30 kg  
GP-40K: 20/30/40 kg  
GP-60K, GP-60KS: 30/40/50/60 kg  
GP-61K, GP-61KS: 20/30/40/50/60 kg  
GP-100K, GP-100KS, GP-102K: 60/80/100 kg

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)  
RH less than 85%  
(no condensation)

### Est. Weight:

Approx. 39.7 lb (18 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GP-12K	12 kg	0.1 g	0.1 g	±0.2 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97802	\$4,025.00
GP-20K	21 kg	0.1 g	0.1 g	±0.2 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97803	\$4,425.00
GP-30K	31 kg	0.1 g	0.1 g	±0.2 g	15 × 13 in (384 × 344 mm)	13.5 × 17.4 × 5.5 in (344 × 442 × 139 mm)	97805	\$5,250.00
GP-30KS	31 kg	0.1 g	-	-	15 × 13 in (384 × 344 mm)	13.5 × 17.4 × 5.5 in (344 × 442 × 139 mm)	97810	\$5,625.00
GP-32K	31 kg / 6 kg	1 / 0.1 g	0.5 g / 0.1 g	±1 / ±2 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97804	\$3,675.00
GP-32KS	31 kg / 6 kg	1 / 0.1 g	-	-	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	102901	\$4,075.00
GP-40K	41 kg	0.5 g	0.5 g	±1 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97806	\$4,875.00
GP-60K	61 kg	1 g	0.7 g	±1 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97807	\$6,000.00
GP-60KS	61 kg	1 g	-	-	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	102902	\$6,275.00
GP-61K	61 kg	0.1 g	0.2 g	±0.5 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	102900	\$6,875.00
GP-61KS	61 kg	0.1 g	-	-	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	102903	\$6,700.00
GP-100K	100 kg	1 g	1 g	±2 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97808	\$6,325.00
GP-100KS	101 kg	1 g	-	-	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97811	\$6,800.00
GP-102K	101 kg / 61 kg	10 / 1 g	5 / 1 g	±10 / ±2 g	15 × 13 in (384 × 344 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	97809	\$5,750.00

HIGH CAPACITY  
**GP Series**

**Options/Accessories**

Part#	A&D Model#	Description	Price
97607	AD-1682	Rechargeable battery pack	\$815.00
97608	AD-8920	Universal remote display	\$325.00
97813	GP-04	Comparator output with buzzer	\$335.00
97814	GP-06	Analog output (replaces standard RS-232C)	\$995.00
97815	GP-07	GP extension cable (factory installed 120 day lead time)	\$370.00
97816	GP-20	Underhook GP-12 kg thru 40 kg	\$225.00
97817	GP-21	Underhook GP-60 kg thru 102 kg	\$225.00
97605	AD-100-2	Anti-theft device	\$90.00
97820	07:3004753	Protective in-use cover	\$31.50
97613	TB:136	AC adapter (120 V) standard with unit	\$47.50
97614	TB:137	AC adapter (220 V)	\$69.00
97609	AD-8922	Remote controller	\$765.00
102904	GP-12	Animal weighing pan	\$1,970.00
151247	AD-1688	Data logger	\$370.00
97612	SW:128	Foot switch	\$100.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00





INTRINSICALLY SAFE

## EK-AEP Series

## Standard Features

- LCD display
- ATEX and FM approved (Class I, Division 1, groups C and D)
- Optical data output
- 200 hours of battery operation\*
- Auto power off
- Counting/Percentage/Specific Gravity modes
- Optical data output

## Specifications

## Weighing Units:

Carat, Pennyweight, Troy Ounce, Newton, Decimal Ounce, Decimal Pound

## Operating Modes:

Counting, Percentage, Specific Gravity

## Power:

Four AA batteries  
(Battery life determined with backlight off with four AA batteries. The EK-EAP must be used with any of the following to maintain FM integrity: Duracell AA alkaline MN 1500 LR6, Energizer AA E91 alkaline LR6 AM3, Panasonic AA alkaline LR6 (XJ). Do not mix type or new/used batteries.)

## Stabilization Time:

< 2 seconds

## Sensitivity Drift (10 °C to 30 °C):

±20 ppm/°C

## Calibration Weight:

EK-300AEP: 300 g  
EK-3000AEP: 3,000 g  
EK-12KAEP: 10 kg

## Est. Weight:

3.5 lb (1.5 kg)

## Operating Temperature:

32 °F to 104 °F (0 °C to 40 °C)

## Warranty:

Two-year limited

## Return Policy:

A&D Weighing standard policy - restock fee may apply

## Approvals:

cFMus  
ATEX



Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EK-300AEP	300 g	0.01 g	0.01 g	±0.02 g	Ø4.33 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	199565	\$1,880.00
EK-3000AEP	3,000 g	0.1 g	0.1 g	±0.2 g	5.24 in × 6.69 in (133 mm × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	199566	\$1,990.00
EK-12KAEP	12,000 g	1 g	1 g	±1 g	5.24 in × 6.69 in (133 mm × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	199567	\$2,220.00

## Options/Accessories

Part #	A&D Model #	Description	Price
177696	EJ-12	Carrying case	\$79.00
202077	AD-1611	Safe area serial output module (requires a fiber-optic cable)	\$525.00
202074	AX-KS5456-010	Fiber-optic cable (10 m)	\$360.00
202075	AX-KS5456-030	Fiber-optic cable (30 m)	\$640.00
202076	AX-KS5456-060	Fiber-optic cable (60 m)	\$940.00

\*Battery life determined with backlight off with four AA batteries. The EK-EAP must be used with any of the following to maintain FM integrity: Duracell AA alkaline MN 1500 LR6, Energizer AA E91 alkaline LR6 AM3, Panasonic AA alkaline LR6 (XJ). Do not mix type or new/used batteries.



EK-300AEP



EK-3000AEP

# MS-70/MX-50/MF-50/ML-50

## Standard Features

- Fast and uniform heating with halogen lamp and uniquely designed (secondary radiation assist) SRA filter
- WinCT<sup>©</sup> communication tools software
- Sodium tartrate dihydrate is provided as a stable moisture content for accuracy checks of the analyzer
- Vacuum fluorescent display (VFD)
- Glass window for heating check and easy cleaning
- Self-check function
- Quick reference card
- RS-232 interface for connecting to printer or PC
- GLP/GMP/GCP/ISO compliant with time and date, ID, calibration data and check record outputs

## Specifications

### Operating Modes:

Wet Base, Dry Base, Solid Content, Ratio

### Measurement Programs:

Standard, Automatic, Timer, Manual

### Power:

120 VAC

### Drying Temperature:

MS-70: 30 °C to 200 °C  
 MX-50, MF-50, ML-50: 50 °C to 200 °C (1 ° increment)

### Measurement Program Memories:

MS-70, MX50: 20 sets  
 MF-50: 10 sets  
 ML-50: 5 sets

### Data Memory:

MS-70, MX-50: 100  
 MF-50: 50  
 ML-50: 30

### Moisture Content Display:

MS-70: 0.001% / 0.01% / 0.1%  
 MX-50: 0.01% / 0.1%  
 MF-50: 0.05% / 0.1% / 1%  
 ML-50: 0.1% / 1%

### Moisture Content Accuracy Over 1 g:

MS-70: 0.05%  
 MX-50: 0.10%  
 MF-50: 0.20%  
 ML-50: 0.50%

### Over 5 g:

MS-70: 0.01%  
 MX-50: 0.02%  
 MF-50: 0.05%  
 ML-50: 0.10%

### Operating Temperature:

40 °F to 104 °F (5 °C to 40 °C)

### Heating Technology:

Halogen lamp (straight type, 400 watt max, 5,000 hours)

### Est. Weight:

13 lb (5.9 kg)

### Warranty:

Five-year limited

### Return Policy:

A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
MS-70	71 g	0.0001 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	97821	\$6,675.00
MX-50	51 g	0.001 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	97822	\$4,150.00
MF-50	51 g	0.002 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	97823	\$3,350.00
ML-50	51 g	0.005 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	112408	\$2,825.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97824	AX-31	Sample pans (washable, 100 each)	\$120.00
97825	AX-32-2	Glass fiber sheets (100 each)	\$63.00
97826	AX-33	Sodium tartrate dehydrate test samples (30 × 12 g)	\$100.00
97827	AX-34	Halogen lamp (replacement)	\$79.00
97828	AX-35	Pan handles (2 each)	\$31.50
97829	AX-36	Tweezers (2 each)	\$21.00
97830	AX-37	Spoons (2 each)	\$26.50
97831	AX-38	Protective in-use covers (5 each)	\$53.00
97832	AX-39	Dust cover	\$21.00
97833	AX-42	WinCT <sup>©</sup> Moisture (standard for MS-70 and MX-50, option for MF-50)	\$285.00
97834	AD-1700-20G	Calibration mass (20 g)	\$130.00
97837	AX-43	Temperature calibrator (MS-70 and MX-50 only)	\$540.00
151247	AD-1688	Data logger	\$370.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	\$1,030.00



# STATIC ELIMINATOR AD-1683

## Standard Features

- Can be easily and safely installed; requires no high-voltage wiring
- Eliminates static charges from quickly running or highly electrified work pieces
- Little or no reverse charge is induced by irradiated ions because of its excellent ion polarity or the potential of the charged object
- Achieves static elimination with a huge degree of efficiency regardless of the polarity or the potential of the charged object
- Suited for static elimination in narrow and remote places because of its lengthy ion irradiation distance
- Produces only a little amount of ozone thanks to its high ion generation efficiency
- A current limiting circuit is incorporated in the ion generating electrode to reduce the possibility of electric shock
- No swing in surface potential of the charged object

## Specifications

### Power:

100 to 240 VAC, 50/60 Hz, 1.5 VAC

### Elimination Range:

Distance: 10 to 30 cm from the electrode area:  
30 × 30 cm

### Static Elimination Method:

DC corona discharge DUAL-DC

### Static Eliminating Electrode:

Tungsten emitter

### Est. Weight:

300 g

### Power:

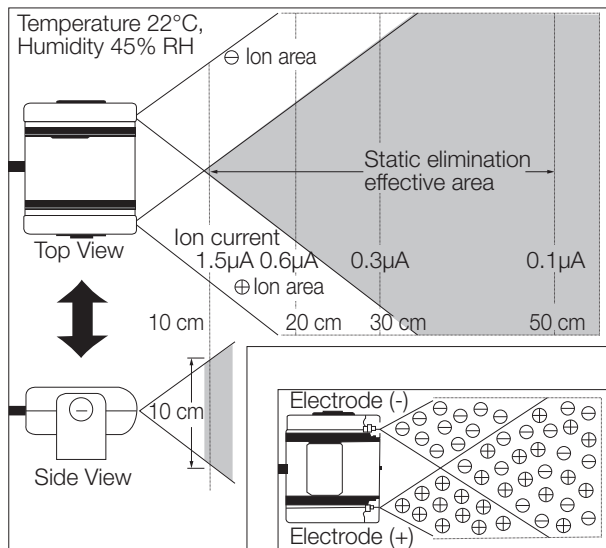
100 to 240 VAC, 50/60 Hz, 1.5 VAC

### Warranty:

One-year limited

Model	Elimination Range	Static Elimination Method	Static Eliminating Electrode	Environmental Conditions	Weight	Part #	List Price
AD-1683	Distance: 10 cm to 30 cm from the electrode area: 30 cm × 30 cm	DC corona discharge DUAL-DC	Tungsten emitter	-5 °C to 40 °C, 35% to 85% RH (no condensation)	300 g	97610	\$1,440.00

(Below) Example of AD-1683 installation showing static elimination area and an example of ion generation.



**Standard Features**

- Intuitive SmarText™ software
- 4 programmable touchless sensors
- Weighing chamber
- Color touchscreen display
- Memory for up to 99 items
- Real-time clock for GLP/GMP data collection
- Audible stability alert
- Autocal automatic calibration
- EX225D/AD and EX225/AD
- Includes ionizer and auto doors

**Specifications****Weighing Units:**

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Grain, Newton (see technical manual for complete listing)

**Operating Modes:**

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

**Power Requirements:**

AC adapter input: 100 to 240 VAC 0.6A 50/60 Hz

**Stabilization Time:**

0.1 mg = 0.3 seconds; 0.01 mg = 8 second

**Min-Weight:**

20.0 mg fine range (USP, u=0.10%, k=2)

**Calibration:**

AutoCal™ at 1.5 °C temperature change, 11 hours and external calibration

**Operating Temperature Range:**

14 °F to 86 °F (-10 °C to 30 °C)

**Est. Weight:**

25 lb (12.5 kg)

**Warranty:**

Two-year limited

**Return Policy:**

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability (20 g) std	Repeatability (100 g) std	Linearity	Pan Size	Dimensions	Part #	List Price
EX125D	52 g/120 g	0.01 mg / 0.1 mg	±0.015 mg	0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	171347	\$7,300.00
EX125	120 g	0.01 mg	±0.015 mg	0.02 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	171348	\$9,100.00
EX225D	120 g/220 g	0.01 mg / 0.1 mg	±0.015 mg	0.02 mg / 0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	171349	\$9,325.00
EX225D/AD	120 g/220 g	0.01 mg / 0.1 mg	±0.015 mg	0.02 mg / 0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	171350	\$9,625.00
EX225/AD	220 g	0.01 mg	±0.015 mg	0.03 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	171351	\$11,825.00

**Options/Accessories**

Part #	Model #	Description	Price
70406	80500525	RS-232 Cable, PC 9-pin to EX	\$260.00
156234	46001724	Multi-range AC adapter	\$67.00
156235	46001780	International plug set	\$29.00



## ANALYTICAL

## Pioneer® PX Series

## Standard Features

- Easy-to-clean analytical draft shield
- Up-front level indicator
- Selectable environment settings
- Flexibility of available options
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Underweigh hook

## Specifications

## Weighing Units:

Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Taels, Tical, Tola, Baht, Mesghal, Newton, Custom Unit

## Operating Modes:

Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing

## Power:

120 VAC adapter (220 to 240 VAC adapter by special order), 50/60 Hz

## Stabilization Time Approx:

4 seconds

## Calibration Weight:

PX84/E: 50/80  
PX124/E: 50/100  
PX224/E: 100/200

## Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C)

## Est. Weight:

10 lb (4.5 kg)

## Warranty:

Two-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
PX84/E	82 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191850	\$2,200.00
PX124/E	120 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191851	\$2,550.00
PX224/E	220 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191852	\$2,825.00

## Options/Accessories

Part #	A&D Model #	Description	Price
67413	80850080	TAL software WinWedge®	\$575.00
191875	80850043	Security device	\$310.00
102799	80780009	Forceps, 2.75 in (70 mm)	\$36.00
102800	80780010	Forceps, 3.5 in (89 mm)	\$36.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 in (10.2 cm × 8.9 cm), weight 24 g	\$51.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	\$98.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	\$105.00
156234	46001724	AC adapter (requires 156235 plug set)	\$67.00
156235	46001780	Universal plug set	\$29.00
191876	30472064	Auxiliary display AD7-RS	\$96.00
191877	80253384	Density kit	\$1,030.00
191878	83034024	Sinker glass for density determination	\$865.00
191879	83021085	USB interface cable	\$260.00
191880	30093334	Dust cover	\$61.00
191881	30372546	In-use cover	\$62.00



# ANALYTICAL Explorer® Series

## Standard Features

- Automatic calibration via AutoCal™
- Communication RS-232C
- On-screen prompts
- Spill channel
- Applications library to store and quickly recall past procedures
- Brilliant backlit, high-resolution dot matrix display with simple navigation windows and menus to guide you through balance functions
- User-selectable GLP outputs via RS-232 to meet traceability requirements
- User-selectable filter, stability indicator and auto-zero tracking for use in difficult environments
- Five-language operation display text
- Protective in-use cover and security bracket
- Underweigh hook

## OPTIONS

- NTEP Certified, Legal for Trade models by special order

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

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

### Power:

AC adapter input: 100 to 240 VAC 0.6A 50/60 Hz

### Stabilization Time Approx:

EX124: 2 seconds  
EX224: 2 seconds  
EX324: 3 seconds

### Calibration:

AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

### Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C)

### Est. Weight:

21.1 lb (9.6 kg)

### Warranty:

Two-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
EX124	120 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121192	\$5,425.00
EX224	220 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121193	\$6,025.00
EX324	320 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121194	\$7,075.00

## Options/Accessories

Part #	Model #	Description	Price
35263	80850043	Security device for EX	\$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$260.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	\$260.00
156234	46001724	Multi-range AC adapter	\$67.00
156235	46001780	International plug set	\$29.00



## ANALYTICAL

## Adventurer® Series

## Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™ automatic calibration

## Specifications

## Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

## Operating Modes:

Counting, Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation

## Power:

100 to 240 VAC, 0.3A, 50 to 60 HZ AC adapter

## Calibration Weight:

AX124: 100 g  
AX224: 224 g  
AX324: 300 g

## Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C)

## Est. Weight:

17.2 lb (7.8 kg)

## Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
AX124	120 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164622	\$3,975.00
AX224	220 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164623	\$4,375.00
AX324	320 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164625	\$4,775.00

## Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	\$260.00
191875	80850043	Security device (laptop lock)	\$310.00
77712	80500524	25-pin RS-232 cable (PC)	\$260.00
70406	80500525	9-pin RS-232 cable (PC)	\$260.00



# Scout® SJX Series

## Standard Features

- Automatic Zero Tracking (AZT)
- Integral LCD display
- Auto-off feature
- Programmable tare
- Transportation lock
- Menu/calibration lockout switch

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce

### Operating Modes:

Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Density Determination, Display Hold

### Power:

AC adapter (included) or four AA batteries (not included)

### Typical Battery Life:

80 hours

### Verification Interval:

SJX323N/E: 0.01 g  
 SJX622N/E and SJX1502N/E: 0.1 g  
 SJX6201N/E: 1 g

### Draft shield:

SJX323N/E: Yes  
 SJX622N/E, SJX1502N/E, SJX6201N/E: No

### Class:

SJX323N/E and SJX1502N/E: II  
 SJX622N/E and SJX6201N/E: III

### Calibration Weight:

SJX323N/E: 50 g  
 SJX622N/E: 300 g  
 SJX1502N/E: 1.5 kg  
 SJX6201N/E: 5 kg

### Operating Temperature:

Class II: 10 °C to 30 °C (0 °F to 86 °F) at 10% to 80% RH (no condensation)  
 Class III: 10 °C to 40 °C (50 °F to 104 °F) at 10% to 80% RH (no condensation)

### Est. Weight:

3.3 lb (1.5 kg)

### Warranty:

Two-year limited

### Approvals:

NTEP 16-015A1  
 Measurement Canada: AM-6008



Measurement  
 Canada  
 Approved

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
SJX323N/E	64 g	0.001 g	0.002 g	Ø 3.7 in (Ø 93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	196652	\$895.00
SJX622N/E	620 g	0.1 g	0.01 g	Ø 4.7 in (Ø 120 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	196653	\$1,120.00
SJX1502N/E	1,500 g	0.01 g	0.02 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	196654	\$1,300.00
SJX6201N/E	6,200 g	1 g	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	196655	\$1,150.00



SJX323N/E



SJX622N/E



SJX1502N/E and SJX6201N/E



LEGAL FOR TRADE

# Valor® 7000 Series

## Standard Features

- Touchless sensors
- Backlit dual LCD display
- Illuminated up-front level indicator
- Internal rechargeable battery
- ABS plastic housing
- Skid-resistant leveling feet
- Menu lock switch
- Multiple application modes
- RS-232 interface for connecting to printer or PC
- Fast stabilizing time

## Specifications

### Weighing Units:

Pound, Ounce, Kilogram, Gram

### Operating Modes:

Weighing, Percent, Checkweighing, Accumulation

### Power:

100 to 240V, internal rechargeable battery  
210-hour operation with 12 hour full charge

### Stabilization Time:

= 1 second

### NTEP Resolution:

V71P1502T: 3 × 0.001 lb

V71P3T: 6 × 0.002 lb

V71P6T: 15 × 0.005 lb

V71P15T: 30 × 0.01 lb

V71P30T: 60 × 0.02 lb

### Operating Temperature:

14 °F to 104 °F (-10 °C to 40 °C)

### Calibration Weight:

1502T: 1.5 kg / 3 lb

3T: 3 kg / 6 lb

6T: 6 kg / 15 lb

15T: 15 kg / 30 lb

30T: 30 kg / 60 lb

### Est. Weight:

9.2 lb (4.2 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

### Approvals:

NTEP: CC 13-022

Measurement Canada: AM-5907C

OIML: R76/2006-NL1-12-46

NSF



Measurement  
Canada  
Approved



Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V71P1502T	1.5 kg	0.00005 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	157316	\$910.00
V71P3T	3 kg	0.0001 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	157317	\$910.00
V71P6T	6 kg	0.0002 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	157318	\$910.00
V71P15T	15 kg	0.0005 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	157319	\$910.00
V71P30T	30 kg	0.001 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	157320	\$910.00

## Options/Accessories

Part #	Model #	Description	Price
154638	30037447	Ethernet kit	\$168.00



# Adventurer® Series

## Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical, Baht, Mesghal, Tola, Custom

### Operating Modes:

Counting, Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation

### Power:

100 to 240 VAC, 0.3A, 50/60 Hz AC adapter

### Class:

AX224N: I (0.001 g)  
 AX223N/E: II (0.01 g)  
 AX423N/E and AX523N/E: II (0.01 g)  
 AX622N/E, AX1502N/E, AX2202N/E,  
 AX4202N/E: II (0.1 g)  
 AX8201N/E: II (1 g)

### Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

### Calibration Weight:

224N, AX223 and AX223N/E: 200 g  
 AX423: 400 g  
 AX523: 500 g  
 AX622: 600 g  
 1502N/E: 1500 g  
 2202N/E: 2000 g  
 4202N/E: 4000 g  
 8201N/E: 8000 g

### Est. Weight:

AX224N: 17.2 lb (7.8 kg)  
 AX223N/E: 12.8 lb (5.8 kg)  
 AX423N/E and AX523N/E: 12.8 lb (5.8 kg)  
 AX622N/E, AX1502N/E, AX2202N/E,  
 AX4202N/E: 14.4 lb (6.5 kg)  
 AX8201N/E: 12.6 lb (5.7 kg)

### Warranty:

Two-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

### Approvals:

NTEP 14-082A4  
 Measurement Canada: AM-5957



Measurement  
 Canada  
 Approved

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>NTEP Certified and Measurement Canada Approved</b>								
AX224N	220 g	0.0001 g	2 mg	0.2 mg	3.5 in (90 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	<b>164624</b>	\$4,650.00
AX223N/E	220 g	0.001 g	0.001 g	0.2 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	<b>164627</b>	\$2,110.00
AX423N/E	420 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	<b>164629</b>	\$2,525.00
AX523N/E	520 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	<b>164632</b>	\$2,800.00
AX622N/E	620 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	<b>164634</b>	\$1,630.00
AX1502N/E	1,520 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	<b>164636</b>	\$1,840.00
AX2202N/E	2,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	<b>164638</b>	\$2,050.00
AX4202N/E	4,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	<b>164640</b>	\$2,600.00
AX8201N/E	8,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	<b>164644</b>	\$2,050.00

## Options/Accessories

Part #	Model #	Description	Price
<b>191879</b>	83021085	USB cable, Type A to B	\$260.00
<b>191875</b>	80850043	Security device (laptop lock)	\$310.00
<b>77712</b>	80500524	25-pin RS-232 cable (PC)	\$260.00
<b>70406</b>	80500525	9-pin RS-232 cable (PC)	\$260.00



## PRECISION

## Adventurer® Series

## Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™ automatic internal calibration for optimized weighing performance

## Specifications

## Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical, Baht, Mesghal, Tola, Custom

## Operating Modes:

Counting, Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation

## Power:

100 to 240 VAC, 0.3A, 50/60 Hz AC adapter

## Stabilization Time:

1 second

## Calibration Weight:

AX223: 200 g

AX423: 400 g

AX523: 500 g

AX622: 600 g

## Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

## Est. Weight:

AX223, AX423, AX523: 12.8 lb (5.8 kg)

## Warranty:

Two-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AX223	220 g	0.001 g	0.001 g	0.2 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164626	\$2,400.00
AX423	420 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164628	\$2,900.00
AX523	520 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	164630	\$3,175.00
AX622	620 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164633	\$1,820.00

## Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	\$260.00
191875	80850043	Security device (laptop lock)	\$310.00
77712	80500524	25-pin RS-232 cable (PC)	\$260.00
70406	80500525	9-pin RS-232 cable (PC)	\$260.00



## Standard Features

- Easy-to-clean analytical draft shield (select models)
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Flexibility of available options
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Tael, Tola, Baht, Mesghal, Newton, Custom Unit

### Operating Modes:

Weighing, Parts Counting, Percent, Density, Determination, Dynamic Weighing

### Power:

120 VAC adapter (220 to 240 VAC adapter by special order), 50/60 Hz

### Stabilization Time:

Approx. 4 seconds

### Calibration Weight:

PX163/E: 100/150 g  
PX323/E: 200/300 g  
PX523/E: 200/500 g

### Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

### Est. Weight:

10 lb (4.5 kg)

### Warranty:

Two-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
PX163/E	160 g	0.001 g	1 mg	2 mg	4.72 in (120 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191853	\$1,280.00
PX323/E	320 g	0.001 g	1 mg	2 mg	4.72 in (120 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191854	\$1,490.00
PX523/E	520 g	0.001 g	1 mg	2 mg	4.72 in (120 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	191855	\$1,824.00

## Options/Accessories

Part #	A&D Model #	Description	Price
67413	80850080	TAL software WinWedge®	\$575.00
191875	80850043	Security device	\$310.00
102799	80780009	Forceps, 2.75 in (70 mm)	\$36.00
102800	80780010	Forceps, 3.5 in (89 mm)	\$36.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 ft (10.2 cm × 8.9 cm), weight 24 g	\$51.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	\$98.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	\$105.00
156234	46001724	AC adapter (requires 156235 plug set)	\$67.00
156235	46001780	Universal plug set	\$29.00
191876	30472064	Auxiliary display AD7-RS	\$96.00
191877	80253384	Density kit	\$1,030.00
191878	83034024	Sinker glass for density determination	\$865.00
191879	83021085	USB interface cable	\$260.00
191880	30093334	Dust cover	\$61.00
191881	30372546	In-use cover	\$62.00



## PRECISION

## Explorer® Series

## Standard Features

- Capacities from 220 g to 10.2 kg with readability to 0.001 g
- Large, 5.7 full-color touchscreen display with intuitive setup and application software
- AutoCal™ automatic internal calibration for optimized weighing performance
- 14 application modes, 11 weighing units and 5 display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation
- 0.001 g models feature frameless draftshield with anti-static glass, flip-top and large side entry doors on top-mounted bearings

## OPTIONS

- External calibration models available upon request

## Specifications

## Weighing Units:

Milligram, Gram, Kilogram, Ounce, Carat, Pennyweight, Troy Ounce, Grain, Newton  
(See technical manual for complete listing)

## Operating Modes:

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

## Power Requirements:

AC adapter input: 100 to 240 VAC 0.6A 50/60 Hz

## Stabilization Time:

= 1.5 second

## Calibration:

AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

## Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

## Est. Weight:

21.1 lb (9.6 kg)

## Warranty:

Two-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
EX223	220 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121195	\$3,575.00
EX423	420 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121196	\$4,175.00
EX623	620 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121197	\$5,100.00
EX1103	1,100 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	121198	\$5,975.00

## Options/Accessories

Part #	Model #	Description	Price
35263	80850043	Security device	\$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$260.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	\$260.00
156234	46001724	Multi-range AC adapter	\$67.00
156235	46001780	International plug set	\$29.00



## Standard Features

- ABS housing and stainless steel pan
- Display type (SPX): backlit LCD, six-digit, seven-segment with white LED backlight
- Display type (STX): full-color touchscreen WQVGA graphic LCD

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Pound/Ounce (See technical manual for complete listing)

### Operating Modes:

Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination, Mole Weighing

### Power:

Multi-range, multi-plug AC power or battery (uses 4 AA batteries not included)

### Stabilization Time:

1 second

### Typical Battery Life:

SPX123, SPX223, SPX422, SPX622, SPX1202, SPX2202, SPX6201: 80 hours  
 SPX222, SPX421, SPX621, SPX2201, SPX8200: 120 hours

### Calibration Weight:

SPX123 and STX123: 100 g  
 SPX223, STX223: 200 g

### Operating Temperature:

10 °C to 40 °C (50 °F to 104 °F);  
 10% to 85% at 31 °C, decreasing linearly to 50% at 40 °C (no condensation)

### Est. Weight:

2.8 lb (1.24 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>LCD Model</b>								
SPX123	120 g	0.001 g	2 d	0.003 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	171984	\$895.00
SPX223	220 g	0.001 g	2 d	0.001 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	171985	\$1,000.00
<b>Touchscreen Model</b>								
STX123	120 g	0.001 g	2 d	0.003 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	171996	\$1,020.00
STX223	220 g	0.001 g	2 d	0.001 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	171998	\$1,140.00

## Options/Accessories

Part #	Model #	Description	Price
67413	80850080	WinWedge® TAL Software	\$575.00
181878	30330714	Power supply, US plug, 110/220 VAC	\$36.00



SPX Round Pan



STX Rectangular Pan

## TOPLOADER

## Pioneer® PX Series

## Standard Features

- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Flexibility of available options
- Underweigh hook

## Specifications

## Weighing Units:

Milligram, Gram, Carat, Ounce, Troy Ounce, Grain,  
Pennyweight, Momme, Taels, Tical, Tola, Baht,  
Mesghal, Newton, Custom Unit

## Operating Modes:

Weighing, Parts Counting, Percent, Density  
Determination, Dynamic Weighing

## Power:

120 VAC adapter (220 to 240 VAC adapter by  
special order), 50/60 Hz

## Stabilization Time:

160 to 520 g: 2 seconds  
1,600 to 4,200 g: 1 second

## Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C)

## Calibration Weight:

PX1602/E: 1,000/1,500 g  
PX2202/E: 1,000/2,000 g  
PX3202/E: 2,000/3,000 g  
PX4202/E: 2,000/4,000 g  
PX2201/E: 1,000/2,000 g  
PX4201/E: 2,000/4,000 g

## Est. Weight:

160 to 520 g: 10 lb (4.5 kg)  
1,600 to 4,200 g: 7.7 lb (3.5 kg)

## Warranty:

Two-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
PX1602/E	1,600 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191856	\$1,230.00
PX2202/E	2,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191857	\$1,350.00
PX3202/E	3,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191858	\$1,620.00
PX4202/E	4,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191859	\$1,840.00
PX2201/E	2,200 g	0.1 g	100 mg	200 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191860	\$1,150.00
PX4201/E	4,200 g	0.1 g	100 mg	200 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	191861	\$1,320.00

## Options/Accessories

Part #	Model #	Description	Price
67413	80850080	TAL software WinWedge®	\$575.00
191875	80850043	Security device	\$310.00
102799	80780009	Forceps, 2.75 in (70 mm)	\$36.00
102800	80780010	Forceps, 3.5 in (89 mm)	\$36.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 in (10.2 cm × 8.9 cm), weight 24 g	\$51.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	\$98.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	\$105.00
156234	46001724	AC adapter (requires 156235 plug set)	\$67.00
156235	46001780	Universal plug set	\$29.00
191876	30472064	Auxiliary display AD7-RS	\$96.00
191877	80253384	Density kit	\$1,030.00
191878	83034024	Sinker glass for density determination	\$865.00
191879	83021085	USB interface cable	\$260.00
191880	30093334	Dust cover	\$61.00
191881	30372546	In-use cover	\$62.00



## Standard Features

- Large, 5.7 full-color touchscreen display with intuitive set up and application software
- AutoCal™ automatic internal calibration for optimized weighing performance
- 14 application modes, 11 weighing units and 5 display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation

## OPTIONS

- External calibration models available upon request

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

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

### Power Requirements:

AC adapter input: 100 to 240 VAC 0.6A 50/60 Hz

### Stabilization Time:

1 second

### Calibration:

AutoCal™ at 1.5 °C temperature change, 11 hours and external calibration

### Operating Temperature Range:

10 °C to 30 °C (50 °F to 86 °F)

### Est. Weight:

EX2202, EX4202: 15 lb (6.8 kg)  
EX6202, EX10202, EX6201, EX10201: 16.3 lb (7.4 kg)

### Warranty:

Two-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EX2202	2,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121199	\$3,850.00
EX4202	4,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121200	\$4,425.00
EX6202	6,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121201	\$5,025.00
EX10202	10,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121202	\$5,950.00
EX6201	6,200 g	0.1 g	±0.1 g	±0.1 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121203	\$4,175.00
EX10201	10,200 g	0.1 g	±0.1 g	±0.1 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	121204	\$4,575.00

## Options/Accessories

Part #	Model #	Description	Price
35263	80850043	Security device	\$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$260.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	\$260.00
156234	46001724	Multi-range AC adapter	\$67.00
156235	46001780	International plug set	\$29.00





TOPLOADER

# Adventurer® Series

## Standard Features

- AutoCal™ automatic internal calibration for optimized weighing performance
- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

Counting, Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation

### Power:

100 to 240 VAC, 0.3A, 50/60 Hz AC adapter

### Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

### Est. Weight:

AX1502, AX2202, AX4202: 14.4 lb (6.5 kg)  
AX8201, AX5202: 12.6 lb (5.7 kg)

### Warranty:

Two-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AX1502	1,520 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164635	\$2,220.00
AX2202	2,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164637	\$2,360.00
AX4202	4,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164639	\$2,975.00
AX5202	5,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164641	\$3,375.00
AX4201	4,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164642	\$1,960.00
AX8201	8,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	164643	\$2,290.00

## Options/Accessories

Part#	Model#	Description	Price
191879	83021085	USB cable, Type A to B	\$260.00
191875	80850043	Security device (laptop lock)	\$310.00
77712	80500524	25-pin RS-232 cable (PC)	\$260.00
70406	80500525	9-pin RS-232 cable (PC)	\$260.00



# Navigator™ XT Series

## Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control zero, print tare, backlight and power functions
- Backlit 0.8 in LCD display for high visibility
- Illuminated level indicator at start-up
- Integrated transportation and calibration lock switch
- Hygienic design for easy cleanup in food, laboratory and industrial applications
- Impact-resistant ABS plastic housing with polished stainless steel spill-resistant pan
- Non-skid leveling feet

## Specifications

### Weighing Units:

Gram, Carat, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Pound/Ounce, (See technical manual for complete listing)

### Operating Modes:

Weighing, Percent, Parts Counting, Checkweighing, Display Hold, Accumulation/Totalization

### Power:

12 VDC 0.42A AC adapter, 100 to 240 V, four C-batteries (not included)

### Stabilization Time:

1 second (NVT4201 = 1.5 seconds)

### Ext. Cal. Mass (optional):

NVT2201: 2 lb (1 kg)  
 NVT4201: 5 lb (2 kg)  
 NVT6200: 10 lb (5 kg)  
 NVT12000: 10 lb (5 kg)  
 NVT2200: 20 lb (10 kg)

### Operating Temperature:

10 °C to 40 °C (50 °F to 104 °F) at 20% to 85% RH

### Est. Weight:

5.1 lb (2.3 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Linearity	Pan Size	Dimensions	Part #	List Price
NVT2201	2,200 g	0.1 g	0.1 g/±0.2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	194607	\$510.00
NVT4201	4,200 g	0.1 g	0.1 g/±0.2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	194608	\$635.00
NVT6200	6,200 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	194609	\$635.00
NVT12000	12,000 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	194610	\$685.00
NVT22000	22,000 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	194611	\$820.00

## Options/Accessories

Part #	Model #	Description	Price
118779	83032107	RS-232 interface kit, Navigator series	\$225.00
118780	83032108	USB interface kit	\$225.00
118781	83032109	Ethernet interface kit	\$225.00
194616	30467963	Carrying case	\$150.00
194615	30467987	Universal AC adapter	\$53.00



TOPLOADER

# Scout® Series

## Standard Features

- ABS housing and stainless steel pan
- Display type (SPX): backlit LCD, six-digit, seven-segment with white LED backlight
- Display type (STX): full-color touchscreen WQVGA graphic LCD

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Pound/Ounce (See technical manual for complete listing)

### Operating Modes:

Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination, Mole Weighing

### Power:

Multi-range, multi-plug AC power or battery (uses four-AA batteries not included)

### Stabilization Time:

1 second

### Typical Battery Life:

SPX422, SPX622, SPX1202, SPX2202, SPX6201: 80 hours  
 SPX222, SPX421, SPX621, SPX2201, SPX8200: 120 hours

### Calibration Weight:

SPX222, STX222: 200 g  
 SPX422, SPX421, STX422, SPT421: 400 g  
 SPX622, SPX621, STX622, STX621: 600 g  
 SPX1202 and STX1202: 1,000 g  
 SPX2202, SPX2201, STX2202, STX2201: 2,000 g  
 SPX6201: 6,000 g  
 SPX8200: 8,000 g

### Operating Temperature:

10 °C to 40 °C (50 °F to 104 °F);  
 10% to 85% at 31 °C, decreasing linearly to 50% at 40 °C (no condensation)

### Est. Weight:

2.8 lb (1.24 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>LCD Model</b>								
SPX222	220 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171986	\$650.00
SPX422	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171987	\$915.00
SPX622	620 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171988	\$1,070.00
SPX1202	1,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171989	\$1,220.00
SPX2202	2,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171990	\$1,370.00
SPX421	420 g	0.1 g	1d	0.1 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171991	\$360.00
SPX621	620 g	0.1 g	1d	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171992	\$535.00
SPX2201	2,200 g	0.1 g	1d	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171993	\$680.00
SPX6201	6,200 g	0.1 g	1d	0.2 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171994	\$1,110.00
SPX8200	8,200 g	1 g	1d	1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171995	\$555.00



SPX Round Pan

# TOPLOADER Scout® Series

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>Touchscreen Model</b>								
STX222	220 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	171999	\$750.00
STX422	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172000	\$1,050.00
STX622	620 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172001	\$1,230.00
STX1202	1,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172002	\$1,400.00
STX2202	2,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172003	\$1,570.00
STX421	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172004	\$425.00
STX621	620 g	0.1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172005	\$635.00
STX2201	2,200 g	0.1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172006	\$805.00
STX6201	6,200 g	0.1 g	1d	0.02 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172007	\$1,270.00
STX8200	8,200 g	1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	172008	\$660.00

## Options/Accessories

Part #	Model #	Description	Price
67413	80850080	WinWedge® TAL Software	\$575.00
181878	30330714	Power supply, US plug, 110/220 VAC	\$36.00



STX Rectangular Pan

## TOPLOADER

## Valor® 3000 Xtreme Series

## Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- Resolutions up to 20,000d
- SmarText™ user interface
- Bright backlit LCD display
- Convenient up-front level device
- NSF listed
- NTEP 08-008A1 models available by special order

## Specifications

## Weighing Units:

Gram, Kilogram, Ounce, Pound, Decimal, Pound/Ounce, Fractional Ounces (See technical manual for complete listing)

## Operating Modes:

Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity

## Power:

20 V AC adapter (9 V DC, 0.5A),  
four 1.5 Volt C batteries (not included)

## Stabilization Time:

<3 seconds

## Battery life:

V31XH202, V31XH402, V31X501:  
50 hours with alkaline cells  
V31XH2, V31X3, V31XH4, V31X6:  
120 hours with alkaline cells

## Protection Rating:

IP44 (non-washdown)

## Calibration:

Digital external calibration

## Operating Temperature

0 °C to 40 °C (32 °F to 104 °F)

## Est. Weight:

10 lb (4.8 kg)

## Warranty:

One-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

## Approvals:

NSF



Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V31XH202	200 g	0.01 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100283	\$1,020.00
V31XH402	400 g	0.01 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	117790	\$1,390.00
V31X501	500 g	0.1 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	117789	\$750.00
V31XH2	2 kg	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100284	\$1,020.00
V31X3	3 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100285	\$675.00
V31XH4	4 kg	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	117792	\$1,390.00
V31X6	6 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100286	\$675.00

## Options/Accessories

Part #	Model #	Description	Price
103119	80251216	Hardshell carrying case for FD and Valor	\$180.00
102756	80251147	Sandwich pan, 11 in × 5.9 in (280 × 150 mm)	\$115.00
102757	80251148	French fries holder pan	\$115.00
102758	80251149	Ice cream cone holder	\$115.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	\$105.00
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	\$98.00



# Valor® 3000 Xtreme Series Washdown

## Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- NTEP 08-008 models available (model specific)

## Specifications

### Weighing Units:

Gram, Kilogram, Decimal Ounce, Fractional Ounces, Pound/Ounces (See technical manual for complete listing)

### Operating Modes:

Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity

### Power:

120 V AC adapter (9 V DC, 0.5 A), four 1.5 Volt C batteries (not included)

### Stabilization Time:

< 3 seconds

### Battery Life:

V31XW301 and V31XW3: 50 hours with alkaline cells  
V31XW6: 120 hours with alkaline cells

### Protection Rating:

IP65

### Calibration:

Digital external calibration

### Operating Temperature:

0 °C to 40 °C (32 °F to 104 °F)

### Est. Weight:

10 lb (4.8 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

### Approvals:

NTEP: CC 08-008A1



Model	Capacity	Resolution	Pan Size	Dimensions	Part #	List Price
V31XW301	300 g	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100287	\$790.00
<b>NTEP Certified</b>						
V31XW3	3 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100288	\$775.00
V31XW6	6 kg	2 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	100289	\$775.00

## Options/Accessories

Part #	Model #	Description	Price
103119	80251216	Hardshell carrying case	\$180.00
102756	80251147	Sandwich pan, 11 in × 5.9 in (280 × 150 mm)	\$115.00
102757	80251148	French fries holder pan	\$115.00
102758	80251149	Ice cream cone holder	\$115.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	\$105.00
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	\$98.00



## TOPLOADER

## Valor® 2000 Series Washdown

## Standard Features

- Front and rear dual display, 0.8 in (20.5 mm)
- Removable stainless steel platform cover
- Fast 0.5 second stabilization time
- SmartText™ interface
- Knife-proof keypad

## Specifications

## Weighing Units:

Grams, Kilograms, Pounds, Ounces, Pound/Ounce

## Operating Modes:

Weigh, Checkweigh

## Power:

Universal AC adapter, 12 VDC 0.7A internal rechargeable lead acid battery

## Stabilization Time:

&lt; 1 second

## Battery Life:

50 hours with 1 hour recharge time

## Protection Rating:

IPX8

## Safe Overload:

150% of capacity

## Calibration:

Digital external calibration

## Operating Temperature:

-10 °C to 40 °C (14 °F to 104 °F)

## Est. Weight:

8.6 lb (3.9 kg)

## Warranty:

One-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V22XWE3T	3 kg	0.5 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	102771	\$710.00
V22XWE6T	6 kg	1 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	102772	\$710.00
V22XWE15T	15 kg	2 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	102773	\$710.00

## Options/Accessories

Part #	Model #	Description	Price
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	\$98.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	\$105.00



# Compass CX Series

## Standard Features

- Superior RF protection
- Reliable, stable results
- CE listed and FCC Class B Part 15 operation
- Large, removable stainless steel weighing platform
- Low-profile design
- Easy operation
- Low-battery indicator
- Automatic shutoff
- Overload protection
- Push-button calibration

## Specifications

### Weighing Units:

Grams, Pound/Ounce and Newton

### Operating Modes:

Weighing

### Power:

3 AA alkaline batteries (included) or AC adapter (not included)

### Battery Life:

1,000 hours

### Stabilization Time:

CX221, CX621: 1.5 seconds  
 CX1201: 2 seconds  
 CX2200, CX5200, CX221P, CX2200P, CX5200P: 1.5 seconds

### Operating Temperature:

18 °C to 25 °C (64 °F to 77 °F)

### Calibration Weight:

CX221: 200 g  
 CX621: 500 g  
 CX1201, CX2200: 1 kg  
 CX5200: 2 kg

### Est. Weight:

0.91 lb (0.47 kg)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

### Approvals:

CE Approved



Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
CX221	220 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195245	\$215.00
CX621	620 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195246	\$220.00
CX1201	1,200 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195247	\$235.00
CX2200	2,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195248	\$215.00
CX5200	5,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195249	\$250.00
CX221P	220 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195250	\$230.00
CX2200P	2,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195251	\$230.00
CX5200P	5,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	195252	\$250.00

## Options/Accessories

Part #	Model #	Description	Price
195254	30467763	Carrying case	\$88.00
181878	30330714	US power adapter	\$36.00
195256	30333865	AU power adapter	\$37.00
195257	30333866	EU power adapter	\$37.00
195258	30333867	UK power adapter	\$37.00
70434	80850075	Bowl, 1,050 mL	\$74.00





## TOPLOADER

## Compass CR Series

## Standard Features

- Basic weighing with simple 2-button keypad
- Superior RF protection
- Large weighing platform
- Stackable design with integrated shipping lock
- Low battery indicator
- Auto shut-off feature
- Mechanical and software overload protection
- External push-button calibration

## Specifications

## Weighing Units:

Grams, Pound/Ounces, Pennyweight, Troy Ounces

## Operating Modes:

Weighing

## Power:

Three AA batteries (included)  
(AC adapter is optional)

## Stabilization Time:

3 seconds

## Battery Life:

300 hours

## Operating Temperature:

18 °C to 25 °C (65 °F to 77 °F)

## Calibration Weight:

CR221: 200 g

CR621: 500 g

CR2200: 1 kg

CR5200: 2 kg

## Est. Weight:

0.875 lb (0.4 kg)

## Warranty:

One-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
CR221	220 g	0.1 g	0.1 g	± 0.1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	195265	\$155.00
CR621	620 g	0.1 g	0.1 g	± 0.1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	195266	\$160.00
CR2200	2,200 g	1 g	1 g	± 1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	195267	\$155.00
CR5200	5,200 g	1 g	1 g	± 1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	195268	\$210.00

## Options/Accessories

Part #	Model #	Description	Price
194615	30467987	Power adapter	\$53.00
195254	30467763	Carrying case	\$88.00
70434	80850075	Bowl, 1,050 mL	\$74.00



# TOPLOADER HH Series

## Standard Features

- Large, 0.4 in (10.16 mm), high-contrast backlit liquid crystal display (LCD)
- Low-battery indicator
- Overload and underload indicators
- Automatic shutoff
- Protective snap-on cover
- Rugged plastic construction

## Specifications

**Weighing Units:**  
Grams, Ounces, Pennyweight, Troy Ounces

**Operating Modes:**  
Weighing

**Stabilization Time:**  
3 seconds

**Power:**  
Battery operated

**Maximum Overload:**  
150% of capacity

**Calibration:**  
HH1200: Factory set  
HH120, HH320: Calibration with keypad

**Est. Weight:**  
0.34 lb (0.16 kg)

**Warranty:**  
One-year limited

**Return Policy:**  
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Linearity	Pan Size	Dimensions	Part #	List Price
HH120D	60 g/120 g	0.1 g/0.2 g	±0.1 g/±0.2 g	3.25 × 3.2 in (83 × 81 mm)	5.35 × 3.25 × 0.8 in (136 × 83 × 20 mm)	52541	\$250.00
HH120	120 g	0.1 g	±0.1 g	3.25 × 3.2 in (83 × 81 mm)	5.35 × 3.25 × 0.8 in (136 × 83 × 20 mm)	64055	\$266.00
HH320	320 g	0.1 g	±0.2 g	3.25 × 3.2 in (83 × 81 mm)	5.35 × 3.25 × 0.8 in (136 × 83 × 20 mm)	52540	\$330.00



# TOPLOADER YA Series

## Standard Features

- Smaller size than most pocket scales allows for a comfortable fit in your pocket
- Clamshell case designs and protects scale during transport
- Bright blue backlit LCD display
- Automatic shutoff

## Specifications

**Weighing Units:**  
Grams, Ounces, Carats, Grains

**Operating Modes:**  
Weighing

**Power:**  
Two AAA batteries

**Est. Weight:**  
0.3 lb

**Calibration:**  
External

**Warranty:**  
One-year limited

**Return Policy:**  
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Part #	List Price
YA102	100 g	0.01 g	0.01 g	103106	\$150.00
YA302	300 g	0.05 g	0.05 g	103107	\$130.00

## Options/Accessories

Part#	Model #	Description	Price
33454	4590-30	Black scoop, aluminum 4 x 3.5 in (10.2 x 8.9 cm), weight 24 g	\$51.00



# Valor® 1000 Series

## Standard Features

- Removable stainless steel platform cover
- Mid-profile ABS plastic housing
- Front-mounted leveling device
- Compact footprint
- Fast response time
- Easy to clean

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Pound/Ounce

### Operating Modes:

Weigh, Accumulate, Checkweigh

### Power:

Universal AC adapter included (9 VDC 500 mA)  
Four D Cell alkaline batteries (not included)

### Stabilization Time:

= 1.5 seconds

### Scale Overload:

120% of capacity

### Decimal Ounce:

V12P3: 105 oz × 0.02 oz  
V12P6: 210 oz × 0.05 oz  
V12P15: 520 oz × 0.1 oz  
V12P30: 1,058 oz × 0.5 oz

### Decimal Pound:

V12P3: 6.6 lb × 0.001 lb  
V12P6: 13 lb × 0.002 lb  
V12P15: 33 lb × 0.01 lb  
V12P30: 66 lb × 0.02 lb

### Grams:

V12P3: 3,000 g × 0.5 g  
V12P6: 6,000 g × 1 g  
V12P15: 15,000 g × 2 g  
V12P30: 30,000 g × 5 g

### Operating Temperature:

32 °F to 104 °F (0 °C to 40 °C) at 10% to 95% relative humidity non-condensing, up to 2.5 miles/4,000 m above sea level

### Est. Weight:

8.8 lb (4.0 kg)

### Battery life:

1,500 hours (with/without backlight on)

### Warranty:

One-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

### Approvals:

NSF



Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V12P3	3 kg	0.5 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	205019	\$270.00
V12P6	6 kg	1 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	205020	\$270.00
V12P15	15 kg	2 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	205021	\$270.00
V12P30	30 kg	5 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	205023	\$270.00

## Options/Accessories

Part #	Model #	Description	Price
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	\$98.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	\$105.00



## HIGH CAPACITY

## Explorer® Series

## Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control operations including print, tare and other selectable functions
- Color VGA, 5.7 in display with icons for simple menu navigation
- Multiple application modes designed for versatility
- AutoCal™ calibration
- Robust IP54 die-cast metal bottom housing with stainless steel pan
- ENERGY STAR qualified adapter
- Underweigh hook

## Specifications

## Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Grain (See technical manual for complete listing)

## Operating Modes:

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

## Power:

AC adapter input: 100 to 240 VAC 0.6A 50/60 Hz

## Stabilization Time:

1 second

## Calibration:

AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

## Operating Temperature:

14 °F to 140 °F (-10 °C to 60 °C)

## Est. Weight:

25 lb (12.5 kg)

## Warranty:

Two-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
Ex12001	12,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	157235	\$5,075.00
Ex24001	24,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	157236	\$6,175.00
Ex35001	35,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	157237	\$7,225.00

## Options/Accessories

Part#	Model #	Description	Price
157238	30078082	Tower mount display	\$205.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$260.00
70406	80500525	RS-232 cable, PC 9-pin to EX	\$260.00
156234	46001724	Multi-range AC adapter	\$67.00
156235	46001780	International plug set	\$29.00



# MECHANICAL Triple Beam

## Standard Features

- Notched and tiered beams for easy reading
- Positive poise positioning for repeatability
- Magnetically damped
- Zero adjust compensator
- Optional tare beam vernier dial

## Specifications

### Tare Range:

710-T0: 225 g  
760-00: 225 g

### Pan Design:

710-00: Stainless steel pan  
710-T0: Stainless steel pan with tare  
720-00: Polypropylene scoop  
750-S0: Stainless steel plate  
760-00: Stainless steel plate with tare  
720-S0: Stainless steel scoop

### Calibration:

Front beam: 10 × 0.1 g  
Middle beam: 500 × 100 g  
Rear beam: 100 × 10 g

### Est. Weight:

8 lb

### Warranty:

Five-year limited

### Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
710-00	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	33350	\$375.00
710-T0	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	33351	\$455.00
720-00	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	33352	\$440.00
750-S0	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	33355	\$210.00
760-00	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	33357	\$385.00
720-S0	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	33353	\$510.00
730-00	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	33354	\$550.00
TP2611	2,610 g	0.1 g	5.8 × 5.8 in (147 × 147 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	103109	\$295.00

## Options/Accessories

Part #	Model #	Description	Price
33417	80780011	Rod and clamp assembly	\$98.00
33447	80780015	Stainless steel scoop, 12 × 6 × 2.75 in (304 × 152 × 70 mm) footed and counterweighted for balance without tare	\$175.00
33463	80780017	Vinyl dust cover	\$48.00
33414	80780108	Attachment weight set, metric	\$96.00



## MECHANICAL

## Harvard Trip Balance

## Standard Features

- Highly versatile, rugged and accurate
- Two-pan design ideal for comparative weighing
- Built-in sliding masses
- Roberval principle
- Magnetic damping
- Comparative weighing

## Specifications

## Pan Design:

Two pan design; stainless steel plate

## Calibration:

Top beam: 10 × 0.1 lb

Bottom beam: 200 × 10 g

## Warranty:

Five-year limited

## Return Policy:

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
1450-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	33364	\$500.00
1550-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	33367	\$535.00
1560-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	33368	\$560.00

## Options/Accessories

Part #	Model #	Description	Price
33461	80850262	Vinyl dust cover	\$48.00
33417	80780011	Rod and clamp assembly	\$98.00



**Standard Features**

- 0.01 g or 0.1 g sensitivity
- Equipped for specific gravity weighing
- Four-tiered notched beams
- Easy-to-read vernier dial on model 310
- See-through poise on model 311
- High precision and remarkable value
- Three-point beam eliminates need for level adjustment
- Quick zeroing with zero adjust knob

**Specifications****Operating Mode:**

310-00: Dial  
311-00: Poise

**Platform:**

Stainless steel (removable)  
3.5 × 0.5 in (89 × 13 mm)

**Est. Weight:**

5 lb (2.3 kg)

**Calibration:**

Front beam: 225 g tare  
Middle beam: 500 × 100 g  
Rear beam: 100 × 10 g  
Dial: 10 × 0.1 g

**Warranty:**

Five-year limited

**Return Policy:**

OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Part #	List Price
310-00	310 g	0.01 g	6 in (152 mm)	33371	\$540.00
311-00	311 g	0.01 g	6 in (152 mm)	33370	\$450.00
1650-00*	610 g	0.1 g	6 in (152 mm)	33361	\$480.00
1650-WO*	2,610 g	0.1 g	6 in (152 mm)	33362	\$555.00
1610-00*	610 g	0.1 g	6 in (152 mm)	33360	\$555.00

**Options/Accessories**

Part #	Model #	Description	Price
33420	80780018	Test tube kit	\$54.00
33462	80780005	Vinyl dust cover	\$48.00
Additional OHAUS Mechanical Balance Accessories			
33414	80780108	Metric attachment mass set	\$96.00
33454	80250048	Black scoop, aluminum, 4 in × 3.5 in (102 × 89 mm)	\$51.00





MECHANICAL

# Field Test Scale

### Standard Features

- Affordable compact industrial scale
- Large, stabilized pan can hold oversized samples without tipping
- Readings up to 500 g are taken from a single sliding-weight beam, while a set of slotted weights, stored in the base, can extend the capacity up to 36 lb

### Specifications

**Operating Modes:**  
Poise

**Platform:**  
11 in (279 mm)

**Calibration:**  
Bottom beam: 500 × 5 g  
Top beam: 1 × 0.01 lb

**Est. Weight:**  
12 lb (5.4 kg)

**Warranty:**  
Five-year limited

**Return Policy:**  
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Part #	List Price
2400-11	16 kg	5 g	11 in (279 mm)	33379	\$1,990.00
2400-12	36 lb	0.01 lb	11 in (279 mm)	33380	\$2,060.00



MECHANICAL

# Heavy Duty Solution

### Standard Features

- Sets an industry standard for precision in high-capacity weighing
- Durable enough to resist corrosion
- Sensitive enough to weigh with a feather's touch
- Large stainless steel platform
- Lockable tare for containers up to 2,270 g
- Self-aligning bearings assure a long, maintenance-free life

### Specifications

**Operating Mode:**  
Poise

**Platform:**  
11 in (279 mm)

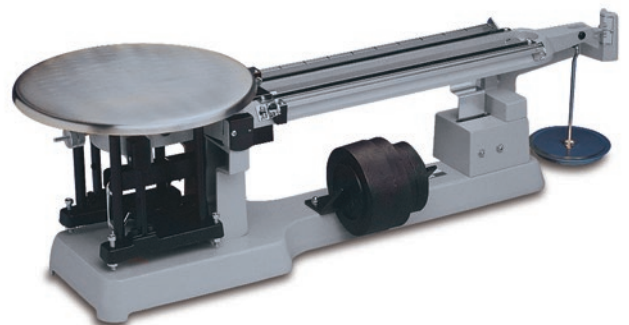
**Calibrations:**  
Front beam: 100 × 1 g  
Rear beam: 1,000 × 100 g

**Est. Weight:**  
42 lb

**Warranty:**  
Five-year limited

**Return Policy:**  
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Part #	List Price
1119-DO	20 kg	1 g	11 in (279 mm)	33378	\$2,912.00



# MOISTURE ANALYZER MB Series

## Standard Features

- Fast halogen heating element provides uniform infrared heating and durability for extended use
- Superior weighing performance with readability up to 0.001 g, 0.01% moisture
- Powerful software for simple operation
- Large, backlit liquid crystal display (LCD) for easy viewing (MB23, MB27)
- Bright, easy-to-read touchscreen display (MB90, MB120)
- GLP/GMP compliant format when printed results are required
- RS-232 interface for connecting to printer or PC
- Multi-language display text (English, Spanish, French)

## Specifications

### Moisture Range:

- 110 g: 0.1% to 100%
- 90 g: 0.05% to 100%
- 90 g: 0.01% to 100%
- 120 g: 0.01% to 100% (0.01% to 100% for regain mode)

### Power:

- 120 VAC Adapter

### Heater Type:

- 110 g: Infrared (no glass)
- 90 to 120 g: Halogen

### Timer:

- 110 to 90 g: 1 to 99 minutes in 30 seconds to 60 minute increments
- 90 g: 1 to 120 minutes in 30 seconds to 60 minute increments, 1 minute increments from 60 to 120 minutes
- 120 g: 1 to 120 minutes in 10 second increments

### Operating Temperature:

- 110 to 90 g: 41 °F to 104 °F (5 °C to 40 °C)
- 90 to 120 g: 50 °F to 104 °F (10 °C to 40 °C)

### Temperature Settings:

- 110 to 90 g: 50 °C to 160 °C × 5 °C (increments)
- 90 g: 40 °C to 200 °C × 1 °C
- 120 g: 40 °C to 230 °C × 1 °C

### Est. Weight:

- 14 lb (6.3 kg)

### Warranty:

- Two-year limited

### Return Policy:

- OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
83999801	110 g	0.01 g	3 g sample-0.3% 10 g sample-0.1%	3.5 in (Ø 90 mm)	7.5 × 6.0 × 14 in (191 × 152 × 356 mm)	109522	\$3,825.00
30251683	90 g	0.001 g	3 g sample-0.2% 10 g sample-0.05%	3.5 in (Ø 90 mm)	6.5 × 5 × 11 in (165 × 127 × 279 mm)	178254	\$3,825.00
30241164	90 g	0.001 g	3 g sample-0.18% 10 g sample-0.02%	3.5 in (Ø 90 mm)	8.3 × 7.7 × 14 in (211 × 196 × 356 mm)	178255	\$5,125.00
30241165	120 g	0.001 g	3 g sample-0.05% 10 g sample-0.015%	3.5 in (Ø 90 mm)	8.3 × 7.7 × 14 in (211 × 196 × 356 mm)	178256	\$6,500.00

## Options/Accessories

Part #	Model #	Description	Price
70401	11113857	Temperature calibration kit	\$785.00
70402	80850087	Pads, glass fiber, 200/box	\$140.00
70403	80850086	Sample pans, 80/box, 90 mm diameter	\$88.00
70404	80850088	Reusable sample pans, 3/box	\$270.00
70406	80500525	Cable, 9-pin serial extension	\$260.00
191875	80850043	Security device	\$310.00
67413	80850080	WinWedge® TAL Software	\$575.00



ULTRA-MICRO / MICRO

# Cubis® II Series MCA

## Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 interface for connecting to printer or PC
- M/DH: Automatic glass draft shield
- F: Manual stainless steel draft shield

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

### Power:

120 V AC adapter auto ranging

### Stabilization Time:

2.7S-2S00-M/F: 7 seconds  
6.6S-2S00-M/F, 3.6P-2S00-M: 5 seconds  
66S-000-DH, 66P-000-DH, 36S-000-DH, 36P-000-DH: 3.5 seconds

### Calibration Weight:

2.7S-2S00-M/F: 2 g  
6.6S-2S00-M/F: 5 g  
3.6P-2S00-M: 3 g  
66S-000-DH, 66P-000-DH: 50 g (E2)  
36S-000-DH, 36P-000-DH: 20 g (E2)

### Weighing Chamber:

(W × D × H)  
8 × 8 × 10.2 in  
(205 × 205 × 261 mm)

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

30 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>Cubis II</b>								
<b>MCA2.7S- 2S00-M</b>	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 0.8 in (20 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	<b>195682</b>	\$47,565.00
<b>MCA2.7S- 2S00-F</b>	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm) H	<b>195685</b>	\$48,840.00
<b>MCA6.6S- 2S00-M</b>	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	<b>195687</b>	\$37,400.00
<b>MCA6.6S- 2S00-F</b>	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm)	<b>195690</b>	\$38,675.00
<b>MCA3.6P- 2S00-M</b>	1.1 g 2.1 g 3.1 g	0.001 mg 0.002 mg 0.005 mg	0.003 0.004 0.005 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	<b>195692</b>	\$28,840.00
<b>Cubis I</b>								
<b>MSA66S-000-DH</b>	61 g	0.001 mg	0.0015 mg 0.004 mg	0.020 mg	1.18 in / 1.97 in (30 mm/50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	<b>186390</b>	\$37,360.00
<b>MSA66P-000-DH</b>	12 g 61 g	0.001 mg 0.01 mg	0.002 mg 0.010 mg	0.020 mg	1.18 in / 1.97 in (30 mm/50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	<b>186391</b>	\$43,420.00
<b>MSA36S-000-DH</b>	31 g	0.001 mg	0.0015 mg 0.002 mg	0.015 mg	1.18 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	<b>186392</b>	\$41,040.00
<b>MSA36P-000-DH</b>	6 g 31 g	0.001 0.01 mg	0.0015 mg 0.008 mg	0.015 mg	1.18 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	<b>186394</b>	\$35,480.00

## Options/Accessories

Part #	Model #	Description	Price
<b>Consult</b>	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
<b>156906</b>	6971987	Power supply, 100 to 240 V	\$260.00
<b>156908</b>	6900900	Cord, power 220 V EU	\$50.00



# Cubis® II Series MCE

## Standard Features

- State-of-the-art, TFT touchscreen operation
- Fast stabilization time
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

### Power:

120 V AC adapter auto ranging

### Stabilization Time:

2.7S-2S00-M/F: 7 seconds  
6.6S-2S00-M/F, 3.6P-2S00-M: 5 seconds

### Calibration Weight:

2.7S-2S00-M/F: 2 g  
6.6S-2S00-M/F: 5 g  
3.6P-2S00-M: 3 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

30 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE2.7S- 2S00-M	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 0.8 in (20 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	195680	\$46,570.00
MCE2.7S- 2S00-F	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm)	195683	\$47,850.00
MCE6.6S- 2S00-M	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	195686	\$36,410.00
MCE6.6S- 2S00-F	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm)	195689	\$37,685.00
MCE3.6P- 2S00-M	1.1 g 2.1 g 3.1 g	0.001 mg 0.002 mg 0.005 mg	0.003 mg 0.004 mg 0.005 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	195693	\$27,845.00

## Options/Accessories

Part #	Model #	Description	Price
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	\$260.00
156908	6900900	Cord, power 220 V EU	\$50.00



SEMI-MICRO

# Cubis® II MCA Series

## Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

### Power:

120 V AC adapter auto ranging

### Stabilization Time:

2 seconds

### Calibration Weight:

225S, 225P: 200 g  
125P: 100 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

30 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
MCA225S	220 g	0.01 mg	0.025 mg	0.1 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	195698	\$16,300.00
MCA225P	60 g 120 g 220 g	0.01 mg 0.02 mg 0.05 mg	0.015 mg 0.04 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	195802	\$14,190.00
MCA125P	60 g 120 g	0.01 mg 0.1 mg	0.015 mg 0.06 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	195803	\$10,240.00

## Options/Accessories

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	\$260.00
156908	6900900	Cord, power 220V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



**Standard Features**

- State-of-the-art, TFT touchscreen operation
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

**Specifications****Weighing Units:**

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

**Operating Modes:**

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

**Power:**

120 V AC adapter auto ranging

**Calibration Weight:**

225S, 225P: 200 g  
125P: 100 g

**Stabilization Time:**

225S, 225P, 125P: 2 seconds

**Operating Temperature:**

5 °C to 40 °C (41 °F to 104 °F)

**Est. Weight:**

30 lb

**Warranty:**

Ten-year limited

**Return Policy:**

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
MCE225S	220 g	0.01 mg	0.025 mg	0.1 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	<b>195694</b>	\$16,625.00
MCE225P	60 g 120 g 220 g	0.01 mg 0.02 mg 0.05 mg	0.015 mg 0.04 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	<b>195797</b>	\$14,350.00
MCE125P	60 g 120 g	0.01 mg 0.1 mg	0.015 mg 0.06 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	<b>195798</b>	\$10,075.00

**Options/Accessories**

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
<b>156906</b>	6971987	Power supply, 100-240 V	\$260.00
<b>156908</b>	6900900	Cord, power 220 V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS2 port	Consult



## SEMI-MICRO

## Quintix/Secura Series

## Standard Features

- Color capacitive touch with swipe technology
- Simple touch technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Integrated level-control
- Mini-USB
- Weigh below hook
- GLP conformance with built-in time and date
- Time and date

## SECURA OPTIONS

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring

## Specifications

## Operating Modes:

Mass Unit Conversion, Counting,  
Percent Weighing, Averaging

## Units of Measure:

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce,  
Hong Kong Tael, Singapore Tael, Taiwan Tael,  
Grain, Pennyweights, Milligram, Parts per Pound,  
China Teal, Mommies, Austrian Carat, Tola, Baht,  
Mesghal and Newton

## Display Type:

LCD

## Power:

12 to 15 VDC, 4.5 W  
AC adapter, 115 to 240V

## Frequency:

50/60 Hz

## Minimum Weight per USP:

Secura 125-1S, Secura 225D-1: 25 mg  
Secura 324-1S: 160 mg

## External Calibration Weight:

Quintix 65-1S: 50 g  
Quintix 125D-1S: 100 g  
Secura 125-1S: 100 g  
Secura 225D-1S: 200 g

## Stabilization Time (typical):

Quintix 65-1S: 6 seconds  
Quintix 125D-1S: 6/2 seconds  
Secura 125-1S: 6 seconds  
Secura 225D-1S: 6/2 seconds  
Secura 324-1S: 2 seconds

## Operating Humidity:

Less than 95% RH

## Operating Temperature:

5 °C to 45 °C (41 °F to 113 °F)

## Est. Weight:

18 lb (7.8 kg)

## Warranty:

Two-year manufacturer

## Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
<b>Quintix</b>									
QUINTIX165-1S	60 g	0.01 mg	0.04 mg	0.1 mg	8.5 in (218 mm)	3.5 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	170634	\$7,325.00
QUINTIX125D-1S	60 g 120 g	0.01 mg 0.1 mg	0.04 mg 0.07 mg	0.1 mg 0.2 mg	8.5 in (218 mm)	3.5 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	170635	\$7,650.00
<b>Secura</b>									
SECURA125-1S	60 g 120 g	0.01 mg 0.1 mg	0.001 g	0.1 mg	8.5 in (218 mm)	3.15 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	170636	\$8,425.00
SECURA225D-1S	120 g 220 g	0.01 mg 0.1 mg	0.001 g	0.1/0.2 mg	8.5 in (218 mm)	3.15 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	170380	\$8,825.00

## Options/Accessories

Part #	Model #	Description	Price
155847	YCC03-D09	Adapter cable, USB to RS-232	\$76.00



**Standard Features**

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook

**QUINTIX AND SECURA OPTIONS**

- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date

**SECURA OPTIONS**

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring
- Legal For Trade models available

**Specifications****Operating Modes:**

Mass unit conversion, Counting,  
Percent Weighing, Averaging

**Units:**

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce,  
Hong Kong Tael, Singapore Tael, Taiwan Tael,  
Grain, Pennyweights, Milligram, Parts per Pound,  
China Teal, Mommies, Austrian Carat, Tola, Baht,  
Mesghal and Newton

**Display Type:**

LCD

**Power Requirements:**

10 to 20 V, AC adapter, 115 V to 240 V

**Frequency:**

50 to 60 Hz

**Calibration Weight:**

124-1S: 100 g  
224-1S, 213-1S, 313-1S: 200 g  
513-1S: 500 g  
324-1S: 300 g

**Stabilization Time (typical):**

3 seconds

**Operating Humidity:**

Less than 95% RH

**Operating Temperature:**

10 °C to 30 °C (50 °F to 86 °F)

**Est. Weight:**

11 lb (4.5 kg)

**Warranty:**

Two-year manufacturer

**Return Policy:**

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
<b>Practum</b>									
PRACTUM124-1S	120 g	0.1 mg	±0.1 mg	±0.3 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153983	\$3,630.00
PRACTUM224-1S	220 g	0.1 mg	±0.1 mg	±0.3 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153984	\$3,980.00
<b>Quintix</b>									
QUINTIX124-1S	120 g	0.1 mg	±0.1 mg	0.2 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153992	\$4,525.00
QUINTIX224-1S	220 g	0.1 mg	±0.1 mg	0.2 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153993	\$5,100.00
<b>Secura</b>									
SECURA124-1S	120 g	0.1 mg	±0.1 mg	0.2 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154005	\$4,825.00
SECURA224-1S	220 g	0.1 mg	±0.1 mg	0.2 mg	7.9 in (209 mm)	3.5 in (90 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154006	\$5,325.00
SECURA324-1S	320 g	0.1 mg	0.001 g	0.3 mg	8.5 in (218 mm)	3.5 in (90 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	170637	\$6,275.00

**Options/Accessories**

Part #	Model #	Description	Price
191429	6971790	AC adapter, 110-240 V, six power plugs	\$67.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$76.00





## ANALYTICAL

## Cubis® II MCA Series

## Standard Features

- 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

## Specifications

## Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms.  
(See technical manual for complete listing)

## Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

## Power:

120 V AC adapter auto ranging

## Stabilization Time:

1 second

## Calibration Weight:

124S: 100 g  
224S: 200 g  
324S / P: 300 g  
524S / P: 500 g

## Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

## Est. Weight:

30 lb

## Warranty:

Ten-year limited

## Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
<b>MCA with TFT Color Touchscreen</b>									
<b>MCA324P</b>	80 g	0.1 mg	0.1 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195805</b>	\$10,425.00
	160 g	0.2 mg	0.2 mg						
	320 g	0.5 mg	0.4 mg						
<b>MCA524P</b>	120 g	0.1 mg	0.1 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195804</b>	\$10,725.00
	240 g	0.2 mg	0.2 mg						
	520 g	0.5 mg	0.5 mg						
<b>MCA124S</b>	120 g	0.1 mg	0.1 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195702</b>	\$8,825.00
<b>MCA224S</b>	220 g	0.1 mg	0.07 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195701</b>	\$10,175.00
<b>MCA324S</b>	320 g	0.1 mg	0.1 mg	0.3 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195700</b>	\$11,600.00
<b>MCA524S</b>	520 g	0.1 mg	0.1 mg	0.4 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195699</b>	\$13,275.00

## Options/Accessories

Part#	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
<b>156906</b>	6971987	Power supply, 100 to 240 V	<b>\$260.00</b>
<b>156908</b>	6900900	Cord, power 220 V EU	<b>\$50.00</b>
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



### Standard Features

- State-of-the-art TFT touchscreen operation
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

### Specifications

#### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/ Ounce, Micrograms.  
(See technical manual for complete listing)

#### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

#### Power:

120 V AC adapter auto ranging

#### Stabilization Time:

1 second

#### Calibration Weight:

124S: 100 g  
224S: 200 g  
324S/P: 300 g  
524S/P: 500 g

#### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

#### Est. Weight:

30 lb

#### Warranty:

Ten-year Limited

#### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
<b>MCE with TFT Touchscreen</b>									
<b>MCE324P</b>	80 g 160 g 320 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.4 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195801</b>	\$9,425.00
<b>MCE524P</b>	120 g 240 g 520 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.5 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195800</b>	\$9,725.00
<b>MCE124S</b>	120 g	0.1 mg	0.1 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195697</b>	\$7,825.00
<b>MCE224S</b>	220 g	0.1 mg	0.07 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195696</b>	\$9,175.00
<b>MCE324S</b>	320 g	0.1 mg	0.1 mg	0.3 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195695</b>	\$10,600.00
<b>MCE524S</b>	520 g	0.1 mg	0.1 mg	0.4 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	<b>195799</b>	\$12,275.00

### Options/Accessories

Part#	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
<b>156906</b>	6971987	Power supply, 100 to 240 V	<b>\$260.00</b>
<b>156908</b>	6900900	Cord, power 220 V EU	<b>\$50.00</b>
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



## ANALYTICAL

# Entris® II Series Basic Essential

## Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton  
(See technical manual for complete listing)

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time:

2.5 seconds

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Calibration Weight:

BCE64I-1S: 50 g  
BCE124I-1S: 100 g  
BCE224I-1S: 200 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

13.7 lb

### Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE64I-1S	60 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	197392	\$2,800.00
BCE124I-1S	120 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	197393	\$3,175.00
BCE224I-1S	220 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	197394	\$3,575.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data Cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



# Entris® II Series Basic Advanced

## Standard Features

- Graphic touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

## Specifications

### Weighing Modes:

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts Per Pound, China Teal, Mommies, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds/Ounces, Newton

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time:

BCA64I-1S, BCA124I-1S: 2.5 seconds  
BCA224I-1S: 1.3 seconds  
BCA324I-1S: 1.0 seconds

### Calibration Weight:

BCA64I-1S: 50 g  
BCA124I-1S: 100 g  
BCA224I-1S, BCA324I-1S: 200 g

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Est. Weight:

13.7 lb (6.2 kg)

### Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA64I-1S	60 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202468	\$3,900.00
BCA124I-1S	120 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202469	\$4,250.00
BCA224I-1S	220 g	0.1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202471	\$4,700.00
BCA324I-1S	320 g	0.1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202473	\$5,175.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



LEGAL FOR TRADE

# Entris® II Series Basic Essential

## Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 connectivity
- Weigh below hook
- NTEP Certified

## Specifications

### Weighing Units:

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Tael, Mommies, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds, Ounces, Newton

### Applications:

Weighing, Density, Percentage, Counting, Mass Unit Conversion

### Display Type:

Backlit LCD, 15 mm digits

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Operating Temperature:

41 °F to 104 °F (5 °C to 40 °C)

### External Calibration Weight:

BCE124-1NUS: 100 g  
BCE224-1NUS, BCE324-1NUS: 200 g  
BCE623-1NUS, BCE653-1NUS, BCE622-1NUS, BCE1202-1NUS: 500 g  
BCE3202-1NUS, BCE4202-1NUS, BCE5201-1NUS, BCE6202-1NUS: 5,000 g

### Stabilization Time (Typical):

2.5 seconds

### Est. Weight:

13.7 lb (6.2 kg)

### Pan Type:

Stainless steel

### AC Power Requirements:

AC adapter, 115 to 240 V, US plug

### Warranty:

Two-year limited

### Approval:

NTEP 22-017



Model	Capacity	Readability	NTEP Repeatability	Pan Size	Dimensions	Part #	List Price
BCE124-1NUS	120 g	0.1 mg	1 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208212	\$2,950.00
BCE224-1NUS	220 g	0.1 mg	1 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208213	\$3,325.00
BCE323-1NUS	320 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208214	\$1,730.00
BCE623-1NUS	620 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208215	\$2,550.00
BCE653-1NUS	650 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208216	\$2,800.00
BCE622-1NUS	620 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208217	\$1,330.00
BCE1202-1NUS	1,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208218	\$1,600.00
BCE3202-1NUS	3,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208219	\$1,860.00
BCE4202-1NUS	4,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208220	\$2,130.00
BCE5201-1NUS	5,200 g	0.1 g	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208222	\$1,600.00
BCE6202-1NUS	6,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	208221	\$2,800.00
BCE8201-1NUS	8,200 g	0.1 g	1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	213481	\$1,860.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



## Standard Features

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook

## OPTIONS

- isoCAL/fully automatic, external calibration
- Internal calibration
- Opto-electronic leveling system
- GLP conformance with built-in time and date
- Sqmin safety program
- Analytical draft support ring

## Specifications

### Weighing Units:

Mass Unit Conversion, Counting, Percent Weighing, Averaging

### Operating Modes:

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommies, Austrian Carat, Tola, Baht, Mesghal and Newton

### Display Type:

LCD

### AC Power Requirements:

AC adapter, 115 to 240V

### Frequency:

50/60 Hz

### Stabilization Time (typical):

3 seconds

### Operating Humidity:

Less than 95% RH

### External Calibration Weight:

224-1NUS, 313-1NUS: 200 g  
613-1NUS: 500 g  
1102-1NUS, 1103-1NUS: 1,000 g  
3102-1NUS: 3000 g  
6101-1NUS, 6102-1NUS: 6000 g

### Operating Temperature:

50 °F to 86 °F (10 °C to 30 °C)

### Est Weight:

9 lb (4.5 kg)

### Warranty:

Two-year limited

### Approvals:

NTEP 21-013



Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
SECURA224-1NUS	220 g	0.1 g	0.5 mg	1 mg	4.73 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207602	\$5,325.00
SECURA313-1NUS	310 g	0.001 g	0.5 mg	2 mg	4.73 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207603	\$3,200.00
SECURA613-1NUS	610 g	0.001 g	0.5 mg	2 mg	4.73 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207604	\$4,275.00
SECURA1102-1NUS	1,100 g	0.01 g	5 mg	0.02 g	7.01 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207605	\$2,800.00
SECURA1103-1NUS	1,100 g	0.001 g	0.5 mg	2 mg	4.73 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207606	\$6,225.00
SECURA3102-1NUS	3,100 g	0.01 g	5 mg	0.02 g	7.01 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207607	\$3,625.00
SECURA6101-1NUS	6,100 g	0.1 g	50 mg	0.1 g	7.01 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207608	\$3,100.00
SECURA6102-1NUS	6,100 g	0.01 g	5 mg	0.02 g	7.01 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	207609	\$4,400.00

## Options/Accessories

Part#	Model#	Description	Price
191429	6971790	AC adapter, 110 to 240 V, six power plugs	\$67.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$76.00



PRECISION

# Cubis® II Series MCA

## Standard Features

- Large, high-end, 7-inch color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms  
(See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

### Power:

120 V AC adapter auto ranging

### Stabilization Time:

3203S, 2203S, 2203P, 1203S, 5203S, 5203P:  
1 second  
623S, 623P, 323S: 0.8 seconds

### Calibration Weight:

3203S, 2203S: 2,000 g  
2203P, 1203S: 1,000 g  
5203S, 5203P: 500 g  
623S, 623P: 500 g  
323S: 200 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

17 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCA623P	150 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195811	\$7,725.00
	300 g	2 mg	2 mg					
	620 g	5 mg	4 mg					
MCA323S	320 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195716	\$7,575.00
MCA623S	620 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195715	\$8,650.00
MCA1203S	1,200 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195713	\$10,725.00
MCA2203P	1,010 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195809	\$11,725.00
	2,200 g	10 mg	6 mg					
MCA2203S	2,200 g	1 mg	1 mg	3 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195712	\$12,075.00
MCA3203S	3,200 g	1 mg	1/6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195711	\$11,200.00
MCA5203S	5,200 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195714	\$14,200.00
MCA5203P	5,200 g	5 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195810	\$13,600.00
	2,400 g	2 mg						
	1,200 g	1 mg						

## Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	\$260.00
156908	6900900	Cord, power 220 V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
Consult	DA, DR, DI or DU	Other draft shields available	Consult



## Standard Features

- State-of-the-art, TFT touchscreen operation
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing

### Power:

120 V AC adapter (auto ranging)

### Stabilization Time:

3203S, 2203S, 2203P, 1203S, 5203S, 5203P: 1 second  
623S, 623P, 323S: 0.8 seconds

### Calibration Weight:

3203S, 2203S: 2,000 g  
2203P, 1203S: 1,000 g  
5203S, 5203P: 500 g  
623S, 623P: 500 g  
323S: 200 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

17 lb

### Warranty:

Ten-year limited

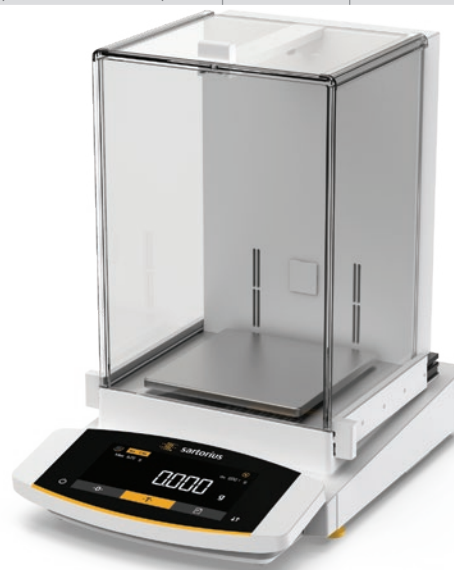
### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE323S	320 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195709	\$6,600.00
MCE623P	150 g 300 g 620 g	1 mg 2 mg 5 mg	1/2/4 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195808	\$6,750.00
MCE623S	620 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195707	\$7,650.00
MCE5203P	5,200 g 2,400 g 1,200 g	5 mg 2 mg 1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195807	\$12,600.00
MCE5203S	5,200 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195706	\$13,200.00
MCE1203S	1,200 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195705	\$9,750.00
MCE2203P	1,010 g 2,200 g	1 mg 10 mg	1 mg 6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195806	\$10,725.00
MCE2203S	2,200 g	1 mg	1 mg	3 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195704	\$11,100.00
MCE3203S	3,200 g	1 mg	1 mg 6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	195703	\$11,200.00

## Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100-240 V	\$260.00
156908	6900900	Cord, power 220 V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
Consult	DA, DR, DI or DU	Other draft shields available	Consult





## PRECISION

# Entris® II Series Basic Essential

## Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Weigh below hook

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time:

BCE223I-1S: 1.3 seconds  
 BCE323I-1S: 1.1 seconds  
 BCE423I-1S, BCE623I-1S, BCE622I-1S: 1.0 seconds  
 BCE653I-1S: 1.5 seconds

### Operating Humidity:

15% to 80% for temperatures up to 31° C

### Calibration Weight:

BCE223I-1S, BCE323I-1S, BCE423I-1S: 200 g  
 BCE623I-1S, BCE653I-1S: 500 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

13.7 lb (6.2 kg)

### Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE223I-1S	220 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197395	\$1,780.00
BCE323I-1S	320 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197396	\$2,040.00
BCE423I-1S	420 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197397	\$2,550.00
BCE623I-1S	620 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197398	\$2,800.00
BCE653I-1S	650 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 3.4 in (230 × 303 × 87 mm)	197400	\$3,050.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



# Entris® II Series Basic Advanced

## Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time:

BCA223I-1S: 2.5 seconds  
 BCA323I-1S: 1.1 seconds  
 BCA423I-1S, BCA623I-1S: 1.0 seconds  
 BCA1203I-1S: 1.5 seconds

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Calibration Weight:

BCA223I-1S, BCA323I-1S: 200 g  
 BCA423I-1S, BCA623I-1S, BCA1203I-1S: 500 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

BCA223I-1S, BCA323I-1S, BCA423I-1S: 13.7 lb (6.2 kg)  
 BCA623I-1S: 13.9 lb (6.3 kg)  
 BCA1203I-1S: 12 lb (5.4 kg)

### Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA223I-1S	220 g	1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202470	\$2,480.00
BCA323I-1S	320 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202472	\$2,700.00
BCA423I-1S	420 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202474	\$2,950.00
BCA623I-1S	620 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202475	\$3,525.00
BCA1203I-1S	1,200 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	202478	\$4,700.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data Cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



## PRECISION

## Practum/Quintix/Secura Series

**Standard Features**

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook

**QUINTIX AND SECURA OPTIONS**

- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date

**SECURA OPTIONS**

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- RS-232 interface cable

**Specifications****Operating Modes:**

Mass Unit Conversion, Counting, Percent Weighing, Averaging

**Weighing Units:**

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommies, Austrian Carat, Tola, Baht, Mesghal and Newton

**Power Requirements:**

AC adapter, 115 to 240VAC

**Frequency:**

50 to 60 Hz

**Display Type:**

LCD

**External Calibration Weight:**

PRACTUM/QUINTIX/SECURA213-1S: 200 g  
PRACTUM/QUINTIX/SECURA313-1S: 200 g  
QUINTIX/SECURA513-1S: 500 g

**Operating Temperature:**

10 °C to 30 °C (50 °F to 86 °F)

**Stabilization Time (typical):**

3 seconds

**Operating Humidity:**

Less than 95% RH

**Est. Weight:**

4.5 kg (11 lb)

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
<b>Practum</b>									
PRACTUM213-1S	210 g	0.001 g	0.001 g	3 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153985	\$2,070.00
PRACTUM313-1S	310 g	0.001 g	0.001 g	3 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153986	\$2,220.00
<b>Quintix</b>									
QUINTIX213-1S	210 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153994	\$2,675.00
QUINTIX313-1S	310 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153995	\$2,875.00
QUINTIX513-1S	510 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153996	\$3,875.00
<b>Secura</b>									
SECURA213-1S	210 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154007	\$2,950.00
SECURA313-1S	310 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154008	\$3,200.00
SECURA513-1S	510 g	0.001 g	0.001 g	2 mg	7.9 in (209 mm)	4.75 in (120 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154009	\$4,025.00

**Options/Accessories**

Part #	Model #	Description	Price
191429	6971790	AC adapter, 110-240 V, six power plugs	\$67.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$76.00



# Practum/Quintix/Secura Series

## Standard Features

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook

## QUINTIX AND SECURA OPTIONS

- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date

## SECURA OPTIONS

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- RS-232 interface cable

## Specifications

### Operating Modes:

Mass Unit Conversion, Counting, Percent Weighing, Averaging

### Weighing Units:

Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommies, Austrian Carat, Tola, Baht, Mesghal and Newton

### Display Type:

LCD

### AC Power Requirements:

AC adapter, 115 to 240V

### Frequency:

50 to 60 Hz

### External Calibration Weight:

612-1S: 500 g  
1102-1S: 1,000 g  
2102-1S: 2,000 g  
5101-1S, 5100-1S: 5,000 g

### Stabilization Time (typical):

3 seconds

### Operating Humidity:

Less than 95% RH

### Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

### Est Weight:

9 lb (4.5 kg)

### Warranty:

Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
<b>Practum</b>								
PRACTUM612-1S	610 g	0.01 g	±10 mg	±30 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153987	\$1,630.00
PRACTUM1102-1S	1,100 g	0.01 g	±10 mg	±30 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153988	\$1,790.00
PRACTUM2102-1S	2,100 g	0.01 g	±10 mg	±30 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153989	\$1,870.00
PRACTUM5101-1S	5,100 g	0.1 g	0.1 g	±0.3 g	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153991	\$1,910.00
PRACTUM5100-1S	5,100 g	1.0 g	1.0 g	±3.0 g	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153990	\$1,480.00
<b>Quintix</b>								
QUINTIX612-1S	610 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153998	\$2,250.00
QUINTIX1102-1S	1,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	153999	\$2,550.00
QUINTIX2102-1S	2,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154000	\$2,875.00
QUINTIX3102-1S	3,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154001	\$3,175.00
QUINTIX5102-1S	5,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154003	\$3,925.00
QUINTIX5101-1S	5,100 g	0.1 g	0.1 g	±0.2 g	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154004	\$2,250.00
QUINTIX5100-1S	5,100 g	1.0 g	1.0 g	±0.2 g	7 in (180 mm)	14.1 × 8.5 × 12.6 in (360 × 216 × 320 mm)	154002	\$1,810.00
<b>Secura</b>								
SECURA1102-1S	1,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	8.58 × 14.17 × 3.70 in (218 × 360 × 94 mm)	154010	\$2,800.00
SECURA2102-1S	2,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	8.58 × 14.17 × 3.70 in (218 × 360 × 94 mm)	154011	\$3,700.00
SECURA3102-1S	3,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	8.58 × 14.17 × 3.70 in (218 × 360 × 94 mm)	154012	\$3,625.00
SECURA5102-1S	5,100 g	0.01 g	±10 mg	±20 mg	7 in (180 mm)	8.58 × 14.17 × 3.70 in (218 × 360 × 94 mm)	154013	\$4,150.00

## Options/Accessories

Part #	Model #	Description	Price
191429	6971790	AC adapter, 110 to 240 V, six power plugs	\$67.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$76.00



TOPLOADER

# Cubis® II Series MCA

## Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Fast stabilization time
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Choice of display
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms  
(See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory

### Power:

120 V AC adapter (auto ranging)

### Stabilization Time:

1202S, 2202S, 4202S, 5201S, 8201S, 12201S:  
0.8 seconds  
6202P, 6202S, 8202S, 10202S, 5202S, 14202S, 14202P:  
1 second

### Calibration Weight:

1202S: 1 kg  
2202S, 4202S: 2 kg  
6202S, 8202S, 5201S, 8201S: 5 kg  
5202S: 5,000 g  
10202S, 12201S, 14202S, 14202P: 10 kg

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

21 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCA1202S	1,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195733	\$6,025.00
MCA2202S	2,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195732	\$6,575.00
MCA4202S	4,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195731	\$7,100.00
MCA5201S	5,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195736	\$5,175.00
MCA5202s	5,200 g	0.01 g	0.006 g	0.01 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195820	\$8,725.00
MCA6202P	1,500 g 3,000 g 6,200 g	10 mg 20 mg 50 mg	7 mg 20 mg 40 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195818	\$7,325.00
MCA6202S	6,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195730	\$8,025.00
MCA8201S	8,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195735	\$6,650.00
MCA8202S	8,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195729	\$8,950.00
MCA10202S	10,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195728	\$10,200.00
MCA12201S	12,200 g	100 mg	50 mg	200 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195734	\$7,250.00
MCA14202S	14,200 g	0.01 g	0.01 g	0.03 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195727	\$12,300.00
MCA14202P	3,500 g 7,000 g 14,200 g	0.01 g 0.02 g 0.05 g	0.05 g	0.05 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195817	\$10,750.00

## Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	\$260.00
156908	6900900	Cord, power 220V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult



# Cubis® II Series MCE

## Standard Features

- State-of-the-art, TFT touchscreen operation
- Fast stabilization time
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Underweigh hook

## Specifications

### Weighing Units:

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton Pound/Ounce, Micrograms (See technical manual for complete listing)

### Operating Modes:

Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory

### Power:

120 V AC adapter (auto ranging)  
 Stabilization Time:  
 1202S, 2202S, 4202S, 5201S, 8201S, 12201S: 0.8 seconds  
 6202P, 6202S, 8202S, 10202S, 5202S, 14202S, 14202P: 1 second

### Calibration Weight:

1202S: 1 kg  
 2202S, 4202S: 2 kg  
 5201S, 6202S, 8201S, 8202S: 5 kg  
 5202S: 5,000 g  
 10202S, 12201S, 14202S, 14202P: 10 kg

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

21 lb

### Warranty:

Ten-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE1202S	1,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195723	\$5,025.00
MCE2202S	2,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195722	\$5,575.00
MCE4202S	4,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195721	\$6,125.00
MCE5201S	5,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195726	\$4,175.00
MCE5202S	5,200 g	0.01 g	0.006 g	0.01 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195816	\$7,725.00
MCE6202P	1,500 g 3,000 g 6,200 g	10 mg 20 mg 50 mg	7 mg 20 mg 40 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195815	\$6,325.00
MCE6202S	6,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195720	\$7,050.00
MCE8201S	8,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195725	\$5,650.00
MCE8202S	8,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195719	\$7,950.00
MCE10202S	10,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195718	\$9,225.00
MCE12201S	12,200 g	100 mg	50 mg	200 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195724	\$6,250.00
MCE14202s	14,200 g	0.01 g	0.01 g	0.03 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195717	\$11,300.00
MCE14202P	3,500 g 7,000 g 14,200 g	0.01 g 0.02 g 0.05 g	0.01 g 0.02 g 0.01 g	0.05 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	195812	\$9,750.00

## Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	\$260.00
156908	6900900	Cord, power 220V EU	\$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult



## TOPLOADER

# Entris® II Series Basic Essential

## Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Weigh below hook

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time:

1.5 seconds

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Calibration Weight:

BCE622I-1S, BCE822II-1S, BCE1202I-1S, BCE2202I-1S: 500 g  
 BCE2201I-1S: 2,000 g  
 BCE3202I-1S, BCE4202I-1S, BCE5201I-1S, BCE6202I-1S, BCE6200I-1S, BCE8201I-1S, BCE8200I-1S: 5,000 g

### Est Weight:

BCE822II-1: 10.6 lb (4.8 kg)  
 BCE1202I-1S: 12 lb (5.4 kg)  
 BCE622I-1S, BCE2202I-1S: 13.9 lb (6.3 kg)  
 BCE2201I-1S, BCE3202I-1S, BCE4202I-1S, BCE5201I-1S, BCE6202I-1S, BCE6200I-1S, BCE8201I-1S, BCE8200I-1S: 12 lb (5.4 kg)

### Warranty:

Two-year limited

### Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE622I-1S	620 g	0.01 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	197399	\$1,650.00
BCE822II-1S	820 g	0.01 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197401	\$1,780.00
BCE1202I-1S	1,200 g	0.01 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197402	\$1,910.00
BCE2202I-1S	2,200 g	0.01 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197403	\$2,040.00
BCE2201I-1S	2,200 g	0.1 g	±0.1 g	±0.3 g	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197404	\$1,780.00
BCE3202I-1S	3,200 g	0.01 g	±0.1 g	±0.3 g	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197405	\$2,160.00
BCE4202I-1S	4,200 g	0.01 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197406	\$2,410.00
BCE5201I-1S	5,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197407	\$1,910.00
BCE6202I-1S	6,200 g	0.01 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197408	\$3,050.00
BCE6200I-1S	6,200 g	1.0 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197409	\$1,780.00
BCE8201I-1S	8,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197410	\$2,160.00
BCE8200I-1S	8,200 g	1.0 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	197411	\$1,910.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00



# Entris® II Series Basic Advanced

## Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

## Specifications

### Weighing Units:

Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton (See technical manual for complete listing)

### Operating Modes:

Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test

### Power:

AC adapter, 115 to 240V, US plug

### Stabilization Time (typical):

1.5 seconds

### Operating Humidity:

15% to 80% for temperatures up to 31 °C

### Calibration Weight:

BCA8221-1S, BCA12021-1S, BCA22011-1S: 500 g  
 BCA22021-1S: 2,000 g  
 BCA32021-1S, BCA42021-1S, BCA52011-1S, BCA62021-1S, BCA82011-1S, BCA102011-1S, BCA122011-1S: 5,000 g

### Operating Temperature:

5 °C to 40 °C (41 °F to 104 °F)

### Est. Weight:

BCA8221-1S, BCA22011-1S, BCA22021-1S, BCA32021-1S, BCA42021-1S, BCA52011-1S, BCA62021-1S, BCA82011-1S, BCA102011-1S, BCA122011-1S: 13.9 lb (6.3 kg)  
 BCA12021-1S: 10.6 lb (4.8 kg)

### Warranty:

Two-year limited

### Return Policy:

Sartorius Standard Policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA8221-1S	820 g	10 mg	±1 mg	±2 mg	4.7 in (120 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202476	\$2,240.00
BCA12021-1S	1,200 g	10 mg	±1 mg	±2 mg	4.7 in (120 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202477	\$2,480.00
BCA22011-1S	2,200 g	0.1 g	±1 mg	±2 mg	4.7 in (120 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202479	\$2,120.00
BCA22021-1S	2,200 g	10 mg	±0.1 g	±0.3 g	4.7 in (120 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202480	\$2,700.00
BCA32021-1S	3,200 g	10 mg	±0.1 g	±0.3 g	4.7 in (120 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202481	\$2,950.00
BCA42021-1S	4,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202482	\$2,830.00
BCA52011-1S	5,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202483	\$2,360.00
BCA62021-1S	6,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202484	\$4,250.00
BCA82011-1S	8,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202485	\$2,825.00
BCA102011-1S	10,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202486	\$4,250.00
BCA122011-1S	12,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	202487	\$4,475.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	\$1,580.00
31103	6906937	Paper rolls, one roll	\$76.00
31106	6906918	Ink ribbon cassette	\$100.00
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	\$85.00
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	\$61.00
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-OCE printer)	\$67.00





## MOISTURE ANALYZER

## MA35, MA37 and MA160 Series

## Standard Features

- High-speed measurements
- Effortless cleaning
- User-friendly operation
- Display of process status

## Specifications

## Heating Element:

MA35, MA37: Infrared metal heating element  
MA160: Infrared radiation by an AURI heater, 600 W

## Heating Mode:

MA35, MA37: Standard drying  
MA160: Standard drying, gentle drying

## Power:

120/230 VAC multi-range adapter

## Display Modes for Results:

Moisture content in % M and g; dry matter in % S and g; ATRO in % M/S

## Data Interface:

MA35: RS-232  
MA37: Mini USB  
MA160: M-Mini USB

## Calibration Weight:

MA35: 30 g  
MA37: 50 g  
MA160: 200 g

## Operating Temperature:

10 °C to 30 °C (50 °F to 86 °F)

## Temperature Range and Settings:

40 °C to 160 °C (104 °F to 320 °F)

## Est. Weight:

MA35: 12.8 lb (5.8 kg)  
MA37, MA160: 13.7 lb (6.2 kg)

## Warranty:

Two-year limited

## Return Policy:

Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
MA35	35 g	0.001 g	For initial sample weight approx $>1 \pm 0.2\%$ ; for initial sample weight $>5 \pm 0.05\%$	3.5 in (90 mm)	8.8 × 14.4 × 7.5 in (224 × 366 × 191 mm)	191983	\$3,325.00
MA37	70 g	0.001 g	For initial sample weight approx $>1 \pm 0.2\%$ ; for initial sample weight $>5 \pm 0.05\%$	3.5 in (90 mm)	8.5 × 15.7 × 8.3 in (215 × 400 × 210 mm)	165963	\$4,650.00
MA160	200 g	0.01 g	For initial sample weight approx $>1 \pm 0.2\%$ ; for initial sample weight $>5 \pm 0.05\%$	3.5 in (90 mm)	8.5 × 15.7 × 8.3 in (215 × 400 × 210 mm)	165964	\$5,850.00



## Standard Features

- Converts serial data such as bar code reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adapter scale cable or connector
- Bluetooth® version allows connection to devices like iPad®, Android® tablets and smart cell phones

## Specifications

**Power:**  
USB power, no external power supply

**Baud Rate:**  
9600

**Color:**  
Black

**Cable Length:**  
74 in (1,880 mm)

**Bluetooth Cable Length:**  
16 in (406 mm)

**Host:**  
PC and MAC compliant

**Connection:**  
DB9 male connector, Pin 2 RX, Pin 3 TX and Pin 5 Ground USBA connector

## Part Number/Price

Part #	Description	Weight	Price
119919	RS-232/USB serial cable	1lb	\$190.00
132452	RS-232/USB serial cable plus Bluetooth®	1lb	\$275.00

## Options/Accessories

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	\$12.50
22436	Blunt-end to DB9 female, straight cable	\$70.00
50749	DB9 female to DB9 female	\$60.00
130789	Null model DB9 adapter female to male	\$14.50



# DATA CAPTURE AND STORAGE Go-Between™

## Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive
- Text file examples (actual text will be dependent on transmitted file)
  - 02:50PM  
11/13/2012  
GROSS 58 lb
  - 02:50PM  
11/13/2012  
GROSS 68 lb

## Specifications

- Power:**  
Requires 5 VDC
- Baud Rate:**  
9600
- Data Bits:**  
8
- Parity:**  
None
- Customer Supplied:**  
Power and USB flash drive

## Industrial Enclosure Option:

7.5 × 7.5 × 4.5 in  
(19 × 19 × 12 cm)  
Latch for lock

## Warranty:

One-year limited

## Part Number/Price

Part #	Description	Price
153265	go-between board, requires 5 volts	\$435.00
153266	go-between industrial enclosure, requires 5 volts	\$630.00
153267	go-between desk enclosure, power supply included	\$525.00

## Options/Accessories

Part #	Description	Price
154797	Adapter, power 5 VDC 2A 90 to 264 VAC, U.S. plug, cULus	\$37.00
195607	USB flash drive, 8 GB	\$9.00
130789	Null model DB9 adapter female to male	\$14.50
119064	Null modem adapter, DB9 F/F	\$12.50
50764	Straight cable, DB9 F/F	\$69.00
66535	Null modem DB9 F/F	\$46.00
22436	DB9 cable to blunt end	\$70.00
15493	Cable four-conductor	\$1.55/ft



# Kasota Stone Balance Slab

## Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



*Reduces vibration and shock, ideal where tables will not fit.*

## Part Number/Price

Part #	Description	Price
<b>Standard Balance Slab, Kasota Stone</b>		
83779	15 × 20 × 3 in, 100 lb	\$475.00

# Kasota Stone Balance Table

## Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



*Provides the most stable surface possible for precision instruments. Legs are reinforced with support pipe.*

## Part Number/Price

Part #	Description	Price
<b>Standard Balance Table, Kasota Stone</b>		
83778	24 × 35 × 32 in, 700 lb	\$1,260.00

# Granite Clean Room Table

## Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



*Mass, density and vibration damping properties for most applications (four damping pads included).*

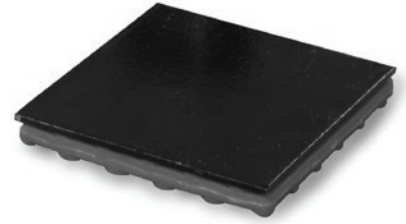
## Part Number/Price

Part #	Description	Price
<b>Clean Room Table, Granite</b>		
83780	24 × 35 × 32 in, 600 lb	\$2,850.00

# Anti-Vibration Pad

## Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



## Part Number/Price

Part #	Description	Price
<b>Anti-Vibration Pad</b>		
<b>75263</b>	Anti-vibration pad 4 × 4 1/2 in-thick	<b>\$17.75</b>

# Scoops

## Standard Features

- Aluminum
- Polypropylene
- Stainless steel



PN 33447

## Part Number/Price

Part #	Description	Price
<b>33447</b>	Stainless steel, 12 × 6 × 2.75 in (304 × 152 × 70 mm)	<b>\$175.00</b>
<b>33454</b>	Black, aluminum 4.0 × 3.5 in (102 × 89 mm)	<b>\$51.00</b>
<b>97250</b>	Stainless steel scoop 11.9 × 7.4 × 1.7 in	<b>\$98.00</b>



PN 33454

# Static Control

NRD is the industry leader for providing advanced ionization products to eliminate electrostatic discharge and static attraction. The success of NRD devices is based on unique and extremely effective ionization sources that use alpha-energy to neutralize static electricity. Unlike electrical ionization systems, NRD ion sources don't just control static, they eliminate it by providing a constant balance of  $\pm$ zero volts.

The ion sources are entirely self-powered and never require any calibration or adjustment; therefore, there are no operating costs associated with them throughout their lifetime. Because NRD ion sources do not require electricity and are completely safe, they are ideal for

use in any application, including highly-volatile environments.

Static charge buildup is the cause of many production problems including downtime, reduced product quality, and ultimately increased costs and reduced profits. Although the static charges cannot be seen, they are quite noticeable.

Thousands of volts of electricity can easily accumulate on the surfaces of in-process materials. This buildup can ignite combustibles, shock personnel, destroy sensitive electronic components and cause many types of production problems. In addition, static attraction of dirt, dust and other foreign matter contaminates products

and process equipment, which intensifies processing problems.

NRD alpha-energy devices rapidly neutralize charged materials. This is accomplished by emitting a flood of both positively and negatively charged ions in the vicinity of the affected material. The charged material then attracts a sufficient quantity of oppositely charged ions to completely eliminate its static charge.

NRD alpha-energy ion sources totally eliminate static buildup, not just reduce it, as with other methods of static control. As with all types of ion sources, ionized air has absolutely no adverse effects on personnel.

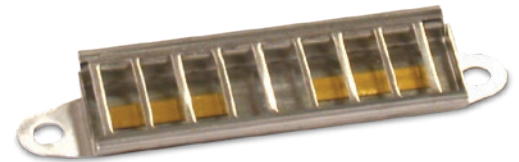


## Return For Disposal

The ionizers can be sent to:

NRD Static Control  
2937 Alt Boulevard  
Grand Island, NY 14072

The box must be clearly marked with "UN2911" on the outside, so NRD knows what to do with them. An RMA is not required, and there is no charge for a recycling fee.



1 × 3 in Ionizing Strip



1 × 1 in Ionizing Strip



1 in Static Brush

3 in Static Brush



Stand Ionizer

## STATIC BRUSHES, IONIZING STRIPS AND ACCESSORIES

## Static Control

## Ionizers

Part #	Staticmaster Part #	Description	Price
164648	4068	Mini-fan ionizer	\$140.00
164649	6105	I-beam stand ionizer	\$1,070.00

## Static Brushes - 1 inch

Part #	Staticmaster Part #	Description	Price
76669	1C200	Static brush, 1 in	\$140.00
76670	1C200R	Replacement cartridge	\$90.00

## Static Brushes - 3 inch

Part #	Staticmaster Part #	Description	Price
76671	3C500	Static brush, 3 in	\$210.00
76672	3C500R	Replacement cartridge	\$145.00

## Ionizing Strips - 1 inch

Part #	Staticmaster Part #	Description	Price
76677	1U400	Ionizing unit 1 in	\$250.00
76678	1U200	Ionizing unit 1 in	\$150.00

## Ionizing Strips - 3 inch

Part #	Staticmaster Part #	Description	Price
76676	2U500	Ionizing unit 1 × 3 in	\$250.00

## Ionizing Strip Accessories

Part #	Staticmaster Part #	Description	Price
76679	BF1	Ionizer positioner	\$73.00
76680	BF2	Ionizer positioner only - C bracket	\$105.00
163601	BF3	EZ-Mount, 2U500 BF3 option mounts 2U500 to balance chamber	\$15.75
163602	5060	Grounding kit, 2U500 5060 enhances static eliminating power Staticmaster 2U500	\$31.50



Mini-fan Ionizer