

# Balances

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# Equipoise Series

Compact Balance

Capacity: 300g-6,000g    Readability: 0.01g-0.2g



## Standard Features

- Capacities between 300g and 6,000g
- Internal resolution: 1/600,000
- 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)
- Standard RS-232 interface for connecting to printer or PC
- Plastic enclosure
- AC adapter

APPROVALS



## Specifications

	EQ-300 <sup>^</sup>	EQ-600 <sup>^</sup>	EQ-1500	EQ-3000	EQ-6000
Part #	165338	165339	165340	165341	132435
List Price	\$295.00	\$295.00	\$295.00	\$295.00	\$305.00
Capacity	300g	600g	1,500g	3,000g	6,000g
Resolution	0.01g	0.02g	0.05g	0.1g	0.2g
Weighing Units	Gram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Momme, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tola				
Operating Modes	Weighing, Percent Weighing, Parts Counting, Accumulation				
Repeatability (+/-)	0.01g	0.02g	0.05g	0.1g	0.2g
Linearity (+/-)	0.02g	0.04g	0.1g	0.2g	0.4g
Stabilization Time	2 seconds				
Operating Temperature	32° F to 104° F (0° C to 40° C)				
Weighing Chamber	6.7 x 5.7 x 3.1 in (170 x 145 x 80 mm)		N/A	N/A	N/A
Pan Size	Ø 4.7 in (Ø 120 mm)		4.8 in x 5.6 in (122 mm x 142 mm)		
Dimensions	7.1 x 8.7 x 3.3 in (180 x 220 x 85 mm)				
Est. Ship Weight	6.6 lb (3 kg)				
Calibration Weight	300g	600g	1,500g	3,000g	6,000g
Power	AC adapter (12V/500 mA); internal rechargeable battery (6V/1.2Ah)				
Warranty	One-year Limited Warranty				
Return Policy	Rice Lake Standard Policy				

<sup>^</sup>Weighing Chamber

### Part Number/Price

Part #	Model #	Capacity	Est. Weight	Price
165338	EQ-300	300 g x 0.01 g	6 lb	\$295.00
165339	EQ-600	600 g x 0.02 g	6 lb	\$295.00
165340	EQ-1500	1,500 g x 0.05 g	6 lb	\$295.00
165341	EQ-3000	3,000 g x 0.1 g	6 lb	\$295.00
132435	EQ-6000	6,000 g x 0.2 g	6 lb	\$305.00

### Options/Accessories

Part #	Description	Price
41279	Printer cable, DB9M to 25-Pin M	\$65.00
103141	SP712 dot matrix printer, tear bar	\$350.00
119919	AbleCable RS-232/USB cable (requires 130789)	\$185.00
130789	Slim line null modem adapter	\$12.00
131135	Aluminum case	\$100.00
165183	AC adapter, 110-240VAC, interchangeable plugs	\$45.00



PN 165183 Multi-range AC adapter and multi-plug

# TE Series

Tuning Fork Enhanced Balance

Capacity: 620g - 15kg Readability: 0.001g - 0.1g



## 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
- 100-240VAC adapter included
- AA dry-cell port, (150 hours continuous use with LCD backlight and communication signal ON)
- RS-232 and USB (Type B)
- Glass breeze break
- NTEP Certified (COC 17-104)

## APPROVALS



## Specifications

	TE-223	TE-623	TE-3202	TE-6202	TE-15001
Part#	187600	186030	186035	186036	186037
List Price	\$1,050.00	\$1,380.00	\$1,145.00	\$1,405.00	\$1,100.00
Capacity	220 g	620 g	3,200 g	6,200 g	15,000 g
Resolution	0.001 g	0.001 g	0.01 g	0.01 g	0.1 g
Operating Modes	Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal, Formulation				
Repeatability	1 division				
Linearity	1 division				
Operating Temperature	41° F to 95° F (5° C to 35° C)				
Pan Size	4.6 in (118 mm)		6.3 in x 7.1 in (160 mm x 180 mm)		
Dimensions	10.6 in x 8.1 in x 11.8 in (270 mm x 208 mm x 301 mm)		10.4 in x 7.5 in x 3.4 in (265 mm x 191.5 mm x 86 mm)		
RS-232 Specifications	Baud Rate 1200, 2400, 480, 9600, 19200, 38400, 57600, 115200 bps				
Est. Ship Weight	6.5 lb (3kg)		6.0 lb (2.7 kg)		
Power	100-240VAC adapter, AA dry cell (batteries not included)				
Approvals	NTEP CC 17-104				
Warranty	Five-year Limited Warranty				
Return Policy	Rice Lake Standard Policy				
Gram	220 x 0.001 g	620 x 0.001 g	3,200 x 0.01 g	6,200 x 0.01 g	15,000 x 0.1 g
Carat	1,100 x 0.01 ct	3,100 x 0.01 ct	16,000 x 0.1 ct	31,000 x 0.1 ct	75,000 x 1 g
Pound	0.48 x 0.00001 lb	1.3 x 0.00001 lb	7 x 0.0001 lb	13 x 0.0001 lb	33 x 0.001 lb
Ounce	7.7 x 0.0001 oz	21 x 0.0001 oz	110 x 0.001 oz	210 x 0.001 oz	520 x 0.01 oz
Troy Ounce	7 x 0.0001 ozt	19 x 0.0001 ozt	100 x 0.001 ozt	190 x 0.001 ozt	480 x 0.01 ozt
Grain	3,300 x 0.1 GN	9,500 x 0.1 GN	49,000 x 1 GN	95,000 x 1 GN	230,000 x 10 GN
Pennyweight	140 x 0.001 dwt	390 x 0.001 dwt	2,000 x 0.01 dwt	3,900 x 0.01 dwt	9,600 x 0.1 dwt
Momme	58 x 0.001 mom	160 x 0.001 mom	850 x 0.01 mom	1,600 x 0.01 mom	4,000 x 0.1 mom
MSG	47 x 0.001 MSG	130 x 0.001 MSG	690 x 0.01 MSG	1,300 x 0.01 MSG	3,200 x 0.1 MSG
Tael (Hong Kong)	5.8 x 0.0001 TL	16 x 0.0001 TL	85 x 0.001 TL	160 x 0.001 TL	400 x 0.01 TL
Tael (Singapore)	5.8 x 0.0001 TL	16 x 0.0001 TL	84 x 0.001 TL	160 x 0.001 TL	390 x 0.01 TL
Tael (Taiwan)	5.8 x 0.0001 TL	16 x 0.0001 TL	85 x 0.001 TL	160 x 0.001 TL	400 x 0.01 TL
Tola	18 x 0.0001 to	53 x 0.0001 to	270 x 0.001 to	530 x 0.001 to	1,200 x 0.01 to
Bat	14 x 0.0001 Bat	40 x 0.0001 Bat	210 x 0.001 Bat	400 x 0.001 Bat	980 x 0.01 Bat
Milligrams	220,000 x 1 mg	620,000 x 1 mg	3,200,000 x 10 mg	6,200,000 x 10 mg	15,000,000 x 100 mg

### Part Number/Price

Part #	Model #	Description	Price
187600	TE-223	220 g x 0.001 g	\$1,050.00
186030	TE-623	620 g x 0.001 g	\$1,380.00
186035	TE-3202	3,200 g x 0.01 g	\$1,145.00
186036	TE-6202	6,200 g x 0.01 g	\$1,405.00
186037	TE-15001	15,000 g x 0.1 g	\$1,100.00

### Options/Accessories

Part #	Description	Price
186074	Power supply 100-240VAC, 50-60 Hz	\$66.00
186075	In-use dust cover 623 g models and lower	\$26.00
186076	In-use dust cover 3,200 g models and higher	\$26.00
186077	Specific Density Measurement Kit	\$600.00
186079	Ethernet TCP/IP option card	\$600.00



### Standard Features

- Large, 16.5mm-high, backlit liquid crystal display (LCD)
- Selectable modes: Weight, Unit Count and Percentage
- 12 units of measurement
- Mono-metal tuning fork sensor (MMTF) provides quick response and stability
- 20-step bar graph display
- 115VAC adapter included (230VAC optional)
- Semi-automatic calibration, external weight
- Plastic housing on models <1000g, plastic top and die cast bottom on models >1000g

### Optional Features

- RS-232
- Rechargeable battery

### Specifications

	TC-620	TC-1200	TC-4200	TC-6200	
Part#	107232	107233	107234	107235	
List Price	\$715.00	\$655.00	\$715.00	\$770.00	
Capacity	620g	1,200g	4,200g	6,200g	
Resolution	0.01g	0.1g	0.1g	0.1g	
Operating Modes	Count, Percentage, Limit Function (checkweighing)				
Repeatability	1 division				
Linearity	1 division				
Operating Temperature	41° F to 95° F (5° C to 35° C)				
Pan Size	Ø 5.5 in (139.7 mm)	6.7 in x 5.6 in (170.2 x 142.2 mm)	7 in x 6.2 in (177.8 x 157.5 mm)		
Dimensions	9.2 x 7.1 x 2.9 in (234 x 180 x 74 mm)		10.4 x 7.5 x 3.4 in (264 x 191 x 86 mm)		
Weight (Approx.)	2.9 lb (1.3 kg)		5.9 lb (2.7 kg)		
Calibration Weight	600g	1,200g	4,000g	6,200g	
Power	120 VAC adapter				
Warranty	Five-year Limited Warranty				
Return Policy	Rice Lake Standard Policy				
UNIT OF MEASURE	Decimal Ounce	21 x 0.0005 oz	42 x 0.005 oz	140 x 0.005 oz	210 x 0.005 oz
	Decimal Pound	1.3 x 0.0005 lb	2.6 x 0.0005 lb	9.2 x 0.0005 lb	13 x 0.0005 lb
	Troy Ounce	19 x 0.0005 ozt	38 x 0.005 ozt	130 x 0.005 ozt	190 x 0.005 ozt
	Pennyweight	390 x 0.01 dwt	770 x 0.1 dwt	2,700 x 0.1 dwt	3,900 x 0.1 dwt
	Carat	3,100 x 0.05 ct	6,000 x 0.5 ct	21,000 x 0.5 ct	31,000 x 0.5 ct
	Momme	160 x 0.005 mom	320 x 0.05 mom	1,100 x 0.05 mom	1,600 x 0.05 mom
	Grain Unit	9,500 x 0.2 GN	18,000 x 2 GN	64,000 x 2 GN	95,000 x 2 GN
	Tael (Hong Kong)	16 x 0.0005 TL	32 x 0.005 TL	110 x 0.005 TL	160 x 0.005 TL
	Tael (Singapore, Malaysia, Taiwan)	16 x 0.0005 TL	31 x 0.005 TL	110 x 0.005 TL	160 x 0.005 TL
	Tola	53 x 0.001 to	100 x 0.01 to	360 x 0.01 to	530 x 0.01 to

### Part Number/Price

Part #	Model #	Description	Price
107232	TC-620	620 g x 0.01 g	\$715.00
107233	TC-1200	1,200 g x 0.1 g	\$655.00
107234	TC-4200	4,200 g x 0.1 g	\$715.00
107235	TC-6200	6,200 g x 0.1 g	\$770.00

### Options/Accessories

Part #	Description	Price
107236	Rechargeable battery TC-620, TC-1200, 32 hr	\$102.00
107237	Rechargeable battery TC-4200, TC-6200, 32 hr	\$102.00
107238	RS-232 option with DIN-5-Pin connector (not compatible with battery option) (TC-620, TC-1200)	\$127.00
107239	RS-232 option with DIN-5-Pin connection (not compatible with battery option) (TC-4200, TC-6200)	\$127.00
107240	In-use dust cover, 620 g to 1,200 g	\$26.00
107250	In-use dust cover, 4,200 g to 6,200 g	\$26.00
109236	Underweigh hook TC-620, TC-1200	\$26.00
109292	Underweigh hook TC-4200, TC-6200	\$26.00
42566	120 VAC adapter	\$66.00
42168	230 VAC adapter	\$72.00
107243	Additional operating manual	\$15.00
75351	WinWedge software	\$325.00
115303	Five-pin to nine-pin RS-232 cable	\$95.00
115148	RS-232 manual	\$5.00



### Standard Features

- External weight calibration
- Large, 16.5mm-high backlit liquid crystal display (LCD)
- Selectable modes: Weight, Unit, Count and Percentage
- 12 units of measurement
- Mono-metal tuning fork sensor (MMTF) provides quick response and stability
- 20-step bar graph display
- 115VAC adapter included (230VAC optional)
- One part in 620,000 resolution
- RS-232 bidirectional
- Plastic housing on models <1,000g, plastic top and die cast bottom on models >1,000g

### APPROVALS



### Optional Features

- Rechargeable battery
- NTEP Certified models

### Specifications

	TP-220 <sup>^</sup>	TP-420NT <sup>^</sup>	TP-820	TP-1200NT	TP-3200	TP-4200NT	TP-6200NT	TP-8200	TP-12K
Part#	107244	-	107245		107246	-		107247	107248
List Price	\$1,020.00	-	\$1,020.00		\$1,155.00	-		\$1,020.00	\$1,175.00
<b>NTEP</b> Part#	-	108155	-	163604	-	108154	163606	-	-
<b>NTEP</b> List Price	-	\$1,125.00	-	\$970.00	-	\$1,125.00	\$1,455.00	-	-
Capacity	220g	420g	820g	1,200g	3,200g	4,200g	6,200g	8,200g	12,000g
Resolution	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g
Operating Modes	Counting, Percentage, Limit Function (checkweighing)								
Repeatability	1 division								
Linearity	1 division								
Operating Temperature	41° F to 95° F (5° C to 35° C)								
Pan Size	Ø 4.6 in (116.8 mm)		6.6 in x 5.5 in (167.6 x 139.7 mm)			7 in x 6.2 in (177.8 x 157.5 mm)			
Dimensions	9.2 x 7.1 x 6.6 in (including windshield) (235 x 182 x 170 mm)		9.2 x 7.1 x 2.9 in (235 x 182 x 75 mm)			10.1 x 7.5 x 3.4 in (265 x 192 x 87 mm)			
RS-232 Specifications	Baud rate - 1200/2400/2800/9600; Data bits - 8, Connector - DIN 5-Pin								
Est. Ship Weight	2.9 lb (1.3 kg)				6.2 lb (2.8 kg)				
Calibration Weight	200g	400g	800g	1,000g	3,000g	4,000g	6,000g	8,000g	12,000g
Power	120VAC adapter								
Battery Option	Nickel Cadmium battery, 12-hour run time, 24-hour charge time								
Approvals	-	NTEP CC 09-002 Class II e=0.01	-	NTEP CC 09-002 Class II e=0.1	-	NTEP CC 09-002 Class II e=0.1	-	-	-
Warranty	Five-year Limited Warranty								
Return Policy	Rice Lake Standard Policy								

<sup>^</sup>Weighing Chamber



## Specifications

	TP-220 <sup>^</sup>	TP-420NT <sup>^</sup>	TP-820	TP-1200NT	TP-3200	TP-4200NT	TP-6200NT	TP-8200	TP-12K	
<b>Part#</b>	107244	-	107245		107246	-		107247	107248	
<b>UNIT OF MEASURE</b>	Decimal Ounce	7.7 x 0.00005 oz	14 x 0.001 oz	28 x 0.0005 oz	42 x 0.0005 oz	110 x 0.0005 oz	140 x 0.01 oz	210 x 0.001 oz	280 x 0.005 oz	420 x 0.005 oz
	Decimal Pound	0.48 x 0.00001 lb	0.92 x 0.00001 lb	1.8 x 0.00005 lb	2.6 x 0.00005 lb	7.0 x 0.00005 lb	9.2 x 0.0001 lb	13 x 0.0001 lb	18 x 0.0005 lb	26 x 0.0005 lb
	Troy Ounce	7 x 0.00005 ozt	16 x 0.0001 ozt	26 x 0.0005 ozt	38 x 0.0005 ozt	100 x 0.0005 ozt	130 x 0.001 ozt	190 x 0.001 ozt	260 x 0.005 ozt	380 x 0.005 ozt
	*Pennyweight	140 x 0.001 dwt	-	520 x 0.01 dwt	770 x 0.01 dwt	2,000 x 0.01 dwt	2,700 x 0.01 dwt	3,900 x 0.01 dwt	5,200 x 0.1 dwt	7,700 x 0.1 dwt
	Carat	1,100 x 0.01 ct	2,100 x 0.01 ct	4,100 x 0.05 ct	6,000 x 0.05 ct	160,000 x 0.05 ct	21,000 x 0.1 ct	31,000 x 0.1 ct	41,000 x 0.5 ct	60,000 x 0.5 ct
	Momme	58 x 0.0005 mom		210 x 0.005 mom	320 x 0.005 mom	850 x 0.01 mom	1,100 x 0.01 mom	1,600 x 0.01 mom	2,100 x 0.05 mom	3,200 x 0.05 mom
	Grain Unit	3,300 x 0.02 GN	6,400 x 0.02 GN	12,000 x 0.2 GN	1,200 x 0.01 GN	48,000 x 0.2 GN	64,000 x 0.2 GN	95,000 x 0.2 GN	120,000 x 2 GN	180,000 x 2 GN
	Tael	5.8 x 0.00005 TL	-	21 x 0.0005 TL		85 x 0.001 TL	-	-	210 x 0.005 TL	320 x 0.005 TL
	Tola	18 x 0.0001 to	-	70 x 0.001 to	100 x 0.001 to	270 x 0.001 to	-	530 x 0.001 to	700 x 0.01 to	1,000 x 0.01 to
	Measurable Unit Weight in Counting Mode	0.03 g	0.03 g	0.03 g	0.01 g	0.3 g	0.3 g	0.3 g	3 g	3 g

<sup>^</sup>Weighing Chamber \*Pennyweight is not an NTEP supported unit of measurement

## Part Number/Price

Part #	Model #	Description	Price
107244	TP-220	220 g x 0.001 g	\$1,020.00
108155	TP-420NT	420 g x 0.001 g	\$1,125.00
107245	TP-820	820 g x 0.01 g	\$1,020.00
163604	TP-1200NT	1,200 g x 0.01 g	\$970.00
107246	TP-3200	3,200 g x 0.01 g	\$1,155.00
108154	TP-4200NT	4,200 g x 0.01 g	\$1,125.00
163606	TP-6200NT	6,200 g x 0.01 g	\$1,455.00
107247	TP-8200	8,200 g x 0.1 g	\$1,020.00
107248	TP-12K	12,000 g x 0.1 g	\$1,175.00

## Options/Accessories

Part #	Description	Price
107249	Rechargeable battery ≤TP1200	\$102.00
107237	Rechargeable battery ≥TP-3200	\$102.00
107250	In-use dust cover ≥TP-3200	\$26.00
107240	In-use dust cover ≤TP-1200	\$26.00
109236	Underweigh hook ≤TP-1200	\$26.00
109292	Underweigh hook ≥TP-3200	\$26.00
42566	115VAC adapter	\$66.00
42168	230VAC adapter	\$72.00
107251	Additional operating manual	\$15.00
75351	WinWedge Tal software	\$325.00
115303	Five-pin to nine-pin DB female RS-232 cable	\$95.00

**TS Series**

Tuning Fork Stainless Steel Washdown Balance

Capacity: 620g-8,200g    Readability: 0.01g-0.1g

**Standard Features**

- Stainless steel, IP65 top housing
- Large, 18 mm liquid crystal display (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 bidirectional

**Optional Features**

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

**Specifications**

	TS-620	TS-6200	TS-8200	
Part #	108156	108157	112182	
List Price	\$1,325.00	\$1,430.00	\$1,505.00	
Capacity	620 g	6,200 g	8,200 g	
Resolution	0.01 g	0.1 g	0.1 g	
Operating Modes	Counting, Percentage, Limit Function (Checkweighing), Weighing Multiplied by Coefficient, Specific Gravity, Animal Weighing, Adding Multiple Measurements			
Repeatability	1 division			
Linearity	1 division			
Operating Temperature	0° C to 40° C 80% RH or less			
Pan Size	Ø 140 mm (5.51 in)	190 x 190 mm (7.48 X 7.48 in)		
RS-232 Specifications	Baud rate - 1200/2400/4800/9600/19200, Data bits 8/7; Connector - Nine-Pin D-Sub M (not IP65 unless using PN 109238 cable)			
Dimensions	12.2 x 8.2 x 3.4 in (310 x 208 x 87 mm)			
Weight (Approx.)	10 lb (4.5 kg)			
Calibration Weight*	600 g	6,000 g	8,000 g	
Power	120-240 VAC adapter, multi-plug adapter			
Battery Option	Field installable, uses 4AA dry cell batteries			
Warranty	Five-year Limited Warranty			
Return Policy	Rice Lake Standard Policy			
UNIT OF MEASURE	Decimal Ounce	21 x 0.0005 oz	210 x 0.005 oz	280 x 0.005 oz
	Decimal Pound	1.3 x 0.00005 lb	13 x 0.0005 lb	18 x 0.0005 lb
	Troy Ounce	19 x 0.0005 ozt	190 x 0.005 ozt	260 x 0.005 ozt
	Pennyweight	390 x 0.01 dwt	3,900 x 0.1 dwt	5,200 x 0.1 dwt
	Carat	3,100 x 0.05 ct	31,000 x 0.5 ct	41,000 x 0.5 ct
	Momme	160 x 0.005 mom	1,600 x 0.05 mom	2,100 x 0.05 mom
	Grain Unit	9,500 x 0.2 GN	95,000 x 2 GN	120,000 x 2 GN

\* Calibration of balance does not require weight of full capacity (adjustable)

### Part Number/Price

Part #	Model #	Description	Price
108156	TS-620	620 g x 0.01 g	\$1,325.00
108157	TS-6200	6,200 g x 0.1 g	\$1,430.00
112182	TS-8200	8,200 g x 0.1 g	\$1,505.00

### Options/Accessories

Part #	Description	Price
108499	AC adapter, multi-range 110:230 VAC, 6VDC	\$51.00
72440	Nine-pin D-sub F-25-Pin D-sub connector	\$65.00
22436	Nine-pin D-sub F to blunt end	\$60.00
66535	Null modem cable	\$45.00
119064	Slimline adapter, null modem gender changer	\$10.50
109236	Under weigh hook	\$26.00
109238	Waterproof RS-232 cable	\$350.00
109050	Additional operating manual	\$15.00
112611	Battery operator manual	\$5.00
112516	Battery holder option requires 4 AA batteries (not included)	\$102.00
119919	AbleCable, requires null modem cable PN 66535	\$185.00



### Standard Features

- Anti-electric 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-232C interface
- ISO/GLP/GMP compliant printing record
- Underweigh hook included
- Internal calibration
- Plastic housing

### Specifications

	TA-120 <sup>^</sup>	TA-220 <sup>^</sup>
Part #	107396	107397
List Price	\$1,975.00	\$1,995.00
Capacity	120 g	220 g
Resolution	0.0001 g	0.0001 g
Operating Modes	Counting, Percentage, Limit Function (Checkweighing), Specific Gravity	
Repeatability	1 division	
Linearity	1 division	
Operating Temperature	50° F to 86° F (10° C to 30° C) 80% RH or lower	
RS232 Specifications	Baud rate - 1200/2400/4800/9600/19200 bps, 8/7 data bits, Parity bit-None/Odd/Even	
Pan Size	Ø 3.15 in (80 mm)	
Dimensions	11 x 7.9 x 12 in (290 x 200 x 306 mm)	
Weight (Approx.)	6.4 lb (2.9 kg)	
Calibration Weight	100 g	200 g
Power	120 VAC adapter	
Warranty	Five-year Limited Warranty	
Return Policy	Rice Lake Standard Policy	
<b>UNIT OF MEASURE</b>		
Decimal Ounce	4.2 x 0.000005 oz	7.7 x 0.000005 oz
Decimal Pound	0.26 x 0.000001 lb	0.48 x 0.000001 lb
Troy Ounce	3.8 x 0.000005 ozt	7 x 0.000005 ozt
Pennyweight	77 x 0.0001 dwt	140 x 0.0001 dwt
Carat	600 x 0.0005 ct	1100 x 0.001 ct
Momme	32 x 0.00005 mom	58 x 0.00005 mom
Grain Unit	1,800 x 0.002 GN	3,300 x 0.002 GN
Tael	3.2 x 0.000005 TL	5.8 x 0.000005 TL
Tola	10 x 0.00001 to	18 x 0.00001 to

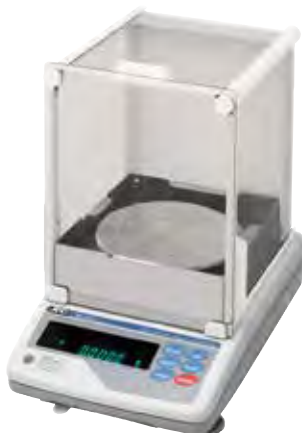
<sup>^</sup> Weighing Chamber

### Part Number/Price

Part #	Model #	Description	Price
107396	TA-120	120 g x 0.0001 g	\$1,975.00
107397	TA-220	220 g x 0.0001 g	\$1,995.00

### Options/Accessories

Part #	Description	Price
108255	115VAC adapter	\$51.00
108256	230VAC adapter	\$77.00
108257	In-use cover	\$51.00
107398	Additional operating manual	\$15.00
75351	WinWedge® Tal software	\$325.00
66535	Null modem cable	\$45.00
119919	AbleCable, requires null modem cable PN 66535	\$185.00



### Standard Features

- Super hybrid sensor technology
- Bright VFD display
- Manage ASTM and OIML weights
- Auto-centering pan included
- Underhook weighing
- Built-in calibration weight
- GLP/LIM/ISO compliant
- RS-232C

### Specifications

	MC-1000S <sup>^</sup>	MC-6100 <sup>^</sup>	MC-10K <sup>^</sup>	MC-30K <sup>^</sup>
Part#	151262	151263	151264	151265
List Price	\$6,470.00	\$6,470.00	\$7,750.00	\$7,750.00
Capacity	1,100 g	6,100 g	10.1 kg	31 kg
Resolution	0.1 mg	0.001 g	0.001 g	0.01 g
Operating Modes	Weighing, Percentage, Comparator			
Weighing Units	g, oz, lb, lb-oz, troy oz, ct, dwt, grain, momme			
Repeatability**	0.0005 g/1 kg/0.0004 g/500 g	0.004 g/5 kg/0.0015 g/2 kg	0.005 g/10 kg/0.004 g/5 kg	0.015 g/20 kg
Linearity	±0.002 g	±0.02 g	±0.03 g	±0.2 g
Stabilization Time	5 seconds			
Sensitivity Drift (10° C-30° C)	±2 ppm/° C			±3 ppm/0° C
Operating Temperature	41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation)			
Pan Size	128 x 128 mm	147 x 147 mm	270 x 210 mm	
Physical Dimensions	210 x 317 x 86 mm		300 x 355 x 111 mm	
Weight	4.6 kg	5.1 kg	9.34g	
Ext. Cal. Mass (optional)	1,000 g	6,000 g	10 kg	30 kg
Power	120/240 AC adapter			
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			

<sup>^</sup> Weighing Chamber

\*\* Repeatability when auto-centering is used under good ambient conditions

## Part Number/Price

Part #	Model #	Description	Price
151262	MC-1000S	1,100 g x 0.1 mg, glass breeze break	\$6,470.00
151263	MC-6100S	6,100 g x 0.001 g, glass breeze break	\$6,470.00
151264	MC-10KS	10.1 kg x 0.001 g, breeze break	\$7,750.00
151265	MC-30KS	31 kg x 0.01 g, breeze break	\$7,750.00

## Options/Accessories

Part #	Model #	Description	Price
151266	AX-MC1000PAN	Auto center pan, MC-1000S (included with balance)	\$1,150.00
151267	AX-MC6100PAN	Auto center pan, MC-6100 (included with balance)	\$1,150.00
151268	AX-MC10K-30KPAN	Auto center pan, MC-10/30K (included with balance)	\$1,470.00
151247	AD-1688	Data logger	\$304.00
97649	TB-648	AC adapter (120V/220V)	\$43.00
97695*	GX-04K	Comparator output, factory installed	\$365.00
97696*	GX-06K	Analog output, factory installed	\$840.00
97699	GX-12	Animal weigh pan	\$185.00
97700	GX-13	Density determination for MC-1000S	\$640.00
97607	AD-1682	External rechargeable battery pack	\$678.00
97612	SW-128	Foot switch	\$75.00
158785	AD-8121B	Impact dot-matrix printer, statistical function, includes 25-pin cable and 25- to nine-pin connector	\$891.00

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

**Ion BM Series**

Micro, Semi-Micro Analytical Balances

Capacity: 520g    Readability: 0.000001 g

**Standard Features**

- Built-in fanless static eliminator
- Underhook weighing
- Anti-static glass
- 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

**Specifications**

	BM-20 <sup>^</sup>	BM-22 <sup>^</sup>	BM-252 <sup>^</sup>	BM-200 <sup>^</sup>	BM-300 <sup>^</sup>	BM-500 <sup>^</sup>	
Part#	150762	150763	150765	150766	150767	150768	
List Price	\$14,790.00	\$13,668.00	\$8,400.00	\$6,615.00	\$6,931.00	\$7,344.00	
Capacity	22g	22g/5.1g	250g	220g	320g	520g	
Resolution	0.000001 g	0.00001 g/0.000001 g	0.00001 g	0.0001 g	0.0001 g	0.0001 g	
Operating Modes	Percentage, Counting						
Repeatability	0.0025 mg	0.004 mg/0.01 mg	0.03 mg	0.1 mg	0.2 mg		
Linearity	±0.010 mg	±0.010 mg/0.02 mg	±0.010 mg	±0.2 mg	±0.3 mg	±0.5 mg	
Stabilization Time	10 seconds (typically)	8 to 10 seconds	8 seconds	Approx. 3.5 seconds			
Sensitivity Drift (10° C-30° C)	±2 ppm/° C (when automatic self calibration is not used)						
Operating Temperature	41° F to 104° F (5° C to 40° C), 85% RH or less (no condensation)						
Pan Size	Ø 0.98 inches (25 mm)			Ø 3.6 inches (90 mm)			
Physical Dimensions	(W x D x H) 10.2 x 18.3 x 12.8 in (259 x 466 x 326 mm)						
Weight	10 kg (ships by motor freight)						
Ext. Cal. Mass (optional)	20g		200g	200g	300g	500g	
Power	120/240 AC Adapter						
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
UNIT OF MEASURE	Decimal Ounce	0.776 x 0.00000001 oz	0.18/0.776 x 0.0000001/0.000001 oz	8.82 x 0.000001 oz	7.76 x 0.000001 oz	11.29 x 0.000001 oz	18.34 x 0.000001 oz
	Troy Ounce	0.707 x 0.0000001 ozt	0.164/0.707 ozt	8.03 x 0.0000001 ozt	7.07 x 0.000001 ozt	10.29 x 0.000001 ozt	16.72 x 0.000001 ozt
	Pennyweight	14.15 x 0.00001 dwt	3.28/14.15 x 0.00001 x 0.0001 dwt	160.7 x 0.00001 dwt	141.5 x 0.0001 dwt	20.58 x 0.0001 dwt	334.4 x 0.0001 dwt
	Carat	110 x 0.00001 ct	25.5/110 x 0.00001/0.0001 ct	1,250 x 0.0001 ct	1,100 x 0.001 ct	1,600 x 0.001 ct	2,600 x 0.001 ct
	Momme	5.87 x 0.000001 mom	1.37/5.87 x 0.000001/0.00001 mom	66.67 x 0.00001 mom	58.7 x 0.0001 mom	85.3 x 0.0001 mom	138.7 x 0.0001 mom
	Grain Unit	339.5 x 0.00002 GN	78.71/339.5 x 0.00002/0.0002 GN	3,858 x 0.0002 GN	3,395 x 0.002 GN	4,938 x 0.002 GN	8,024 x 0.002 GN

<sup>^</sup> Weighing Chamber



**Part Number/Price**

Part #	Model #	Description	Price
150762	BM-20	22 g x 0.001 mg	\$14,790.00
150763	BM-22	5.1 g/22 g x 0.001 mg/0.01 mg	\$13,668.00
150765	BM-252	250 g x 0.01 mg	\$8,400.00
150766	BM-200	220 g x 0.1 mg	\$6,615.00
150767	BM-300	320 g x 0.1 mg	\$6,931.00
150768	BM-500	520 g x 0.1 mg	\$7,344.00

**Options/Accessories**

Part #	Model #	Description	Price
150769	BM-08	Balance OPT, Ethernet BM	\$835.00
97606	AD-1653	Density determination kit (BM-252/200/300/500 only)	\$552.00
97609	AD-8922A	Remote controller	\$635.00
97608	AD-8920A	Universal remote display	\$270.00
97612	SW:128	Foot switch	\$75.00
97649	TB:648	AC adapter (120V/220V)	\$43.00
158785	AD-8121B	Dot-matrix statistical printer, includes 25-pin cable	\$891.00

## Phoenix GH Series

Analytical/Semi-Micro Balances

Capacity: 120g-250g    Readability: 0.00001g



## 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
- Underhook weighing
- RS-232C bidirectional interface
- Data memory function
- Time and date function
- WinCT® communication tools software
- Liquid crystal display (LCD)

## Specifications

	GH-120 <sup>^</sup>	GH-200 <sup>^</sup>	GH-300 <sup>^</sup>	GH-202 <sup>^</sup>	GH-252 <sup>^</sup>	
Part #	97597	97599	97600	97601	97602	
List Price	\$3,540.00	\$4,010.00	\$4,765.00	\$5,350.00	\$5,895.00	
Capacity	120 g	220 g	320 g	220 g/51 g	250 g/101 g	
Resolution	0.0001 g	0.0001 g	0.0001 g	0.0001/ 0.00001 g	0.0001/ 0.00001 g	
Operating Modes	Percentage, Counting					
Repeatability	±0.2 mg	±0.2 mg	±0.3 mg	±0.2 mg/±0.03 mg	±0.2 mg/±0.10 mg	
Linearity	0.1 mg	0.1 mg	0.2 mg	0.1 mg/0.02 mg	0.1 mg/0.03 mg	
Stabilization Time	Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)					
Sensitivity Drift (10° C-30° C)	±2 ppm/° C (when automatic self calibration is not used)					
Operating Temperature	41° F to 104° F (5° C to 40 C) 85% RH or less (no condensation)					
Pan Size	Ø 3.6 in (90 mm)					
Physical Dimensions	(W x D x H) 8.54 x 17.4 x 12.24 in (217 x 442 x 316 mm)					
Weighing Chamber	(W x D x H) 6.45 x 4.87 x 9.88 in (164 x 148.5 x 251 mm)					
Weight	Approx. 18 lb (8.2 kg)					
Ext. Cal. Mass (optional)	50 g/100 g	100 g/200 g	100 g/200 g/300 g	20 g/50 g/100 g/200 g		
Power	120V AC (AC Adapter) 50 Hz/60 Hz, 11 VA (110, 220, 240 available by special order)					
Warranty	Five-year Limited Warranty					
Return Policy	A&D Weighing Standard Policy - restock fee may apply					
UNIT OF MEASURE	Decimal Ounce	4.23 x 0.00001 oz	7.76 x 0.00001 oz	11.29 x 0.00001 oz	7.76 x 0.00001/1.80 x 0.000001 oz	8.82 x 0.00001/3.56 x 0.000001 oz
	Troy Ounce	3.86 x 0.00001 ozt	7.07 x 0.00001 ozt	10.29 x 0.00001 ozt	7.07 x 0.00001/1.64 x 0.000001 ozt	8.04 x 0.00001/3.25 x 0.000001 ozt
	Pennyweight	77.2 x 0.0001 dwt	141.5 x 0.0001 dwt	205.8 x 0.0001 dwt	141.5 x 0.0001/32.8 x 0.00001 dwt	160.8 x 0.0001/64.9 x 0.00001 dwt
	Carat	600 x 0.001 ct	1,100 x 0.001 ct	1,600 x 0.001 ct	1,100 x 0.001/255 x 0.0001 ct	1,250 x 0.001/505 x 0.0001 ct
	Momme	32.0 x 0.0001 mom	58.7 x 0.0001 mom	85.3 x 0.0001 mom	58.7 x 0.0001/13.6 x 0.00001 mom	66.7 x 0.0001/26.9 x 0.00001 mom
	Grain Unit	1,852 x 0.002 GN	3,395 x 0.002 GN	4,938 x 0.002 GN	3,395 x 0.002/787 x 0.0002 GN	3,858 x 0.002/1559 x 0.0002 GN
	Tola	10.29 x 0.00001 to	18.86 x 0.00001 to	27.44 x 0.00001 to	18.86 x 0.00001/4.37 x 0.000001 to	21.43 x 0.00001/8.66 x 0.000001 to
	Tael	3.20 x 0.00001 TL	5.87 x 0.00001 TL	8.53 x 0.00001 TL	5.87 x 0.00001/1.36 x 0.000001 TL	6.67 x 0.00001/2.69 x 0.000001 TL

<sup>^</sup> Weighing Chamber

### Part Number/Price

Part #	Model #	Description	Price
97597	GH-120	120 g x 0.0001 g	\$3,540.00
97599	GH-200	220 g x 0.0001 g	\$4,010.00
97600	GH-300	320 g x 0.0001 g	\$4,765.00
97601	GH-202	220/51 g x 0.0001/0.00001 g	\$5,350.00
97602	GH-252	250/101 g x 0.0001/0.00001 g	\$5,895.00

### Options/Accessories

Part #	Model #	Description	Price
97604	GH-08	Ethernet option for GH	\$685.00
97605	AD-100-2	Anti-theft device	\$73.00
97606	AD-1653	Density determination kit	\$552.00
97607	AD-1682	Rechargeable battery pack, external	\$678.00
97608	AD-8920A	Universal remote display	\$270.00
97609	AD-8922A	Remote controller	\$635.00
97610	AD-1683	Static eliminator	\$1,256.00
151247	AD-1688	Data logger	\$304.00
97612	SW:128	Foot switch	\$75.00
97649	TB:648	AC adapter (120V/220V)	\$43.00

**Gemini GR Series**

Analytical/Semi-Micro Balances

Capacity: 120g-310g Readability: 0.00001g-0.0001g



GR-202

**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
- Underhook weighing
- Internal calibration
- Liquid crystal display (LCD)
- RS-232 bidirectional interface
- WinCT® communication tools software

**Specifications**

	GR-120 <sup>^</sup>	GR-200 <sup>^</sup>	GR-300 <sup>^</sup>	GR-202 <sup>^</sup>	
Part#	97625	97626	97627	97628	
List Price	\$3,015.00	\$3,495.00	\$4,320.00	\$4,930.00	
Capacity	120g	210g	310g	210/42g	
Resolution	0.0001g	0.0001g	0.0001g	0.0001/ 0.00001g	
Operating Modes	Percentage, Counting				
Repeatability	0.0001g	0.0001g	0.0001g	0.0001/0.00002g	
Linearity	±0.0002g	±0.0002g	±0.0002g	±0.0002/±0.00003g	
Stabilization Time	Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)				
Sensitivity Drift (10° C to 30° C)	±2 ppm/° C 50° F to 86° F (10° C to 30° C)				
Operating Temperature	41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation)				
Pan Size	Ø 3.3 in (85 mm)				
Physical Dimensions	(W x D x H) 9.8 x 12.99 x 12.87 in (249 x 330 x 327 mm)				
Weighing Chamber	(W x D x H) 7.01 x 6.5 x 9.17 in (178 x 160 x 233 mm)				
Weight	Approx. 13.2 lb (6.0 kg)				
Ext. Cal. Mass (optional)	50g/100g	100g/200g	200g/300g	100g/200g	
Power	120V AC (AC Adapter) 50Hz/60 Hz, 11VA (110, 220, 240VAC adapter by special order)				
Warranty	Five-year Limited Warranty				
Return Policy	A&D Weighing Standard Policy - restock fee may apply				
UNIT OF MEASURE	Decimal Ounce	4.2 x 0.00001 oz	7.4 x 0.00001 oz	10 x 0.00001 oz	7.4 x 0.00001/1.4 x 0.000001 oz
	Troy Ounce	3.8 x 0.00001 ozt	6.7 x 0.00001 ozt	9.9 x 0.00001 ozt	6.7 x 0.00001/1.3 x 0.000001 ozt
	Pennyweight	77 x 0.0001 dwt	135 x 0.0001 dwt	199 x 0.0001 dwt	135 x 0.0001/27 x 0.00001 dwt
	Carat	600 x 0.001 ct	1,050 x 0.001 ct	1,550 x 0.001 ct	1,050 x 0.001/210 x 0.0001 ct
	Momme	32 x 0.0001 mom	56 x 0.0001 mom	82 x 0.0001 mom	56 x 0.0001/11 x 0.00001 mom
	Grain Unit	1,851 x 0.002 GN	3,240 x 0.002 GN	4,784 x 0.002 GN	3,240 x 0.002/648 x 0.0002 GN
	Tola	10 x 0.00001 to	18 x 0.00001 to	26 x 0.00001 to	18 x 0.00001/3.6 x 0.000001 to
	Tael	3.1 x 0.00001 TL	5.5 x 0.00001 TL	8.2 x 0.00001 TL	5.5 x 0.00001/1.1 x 0.000001 TL

<sup>^</sup> Weighing Chamber

### Part Number/Price

Part #	Model #	Description	Price
97625	GR-120	120 g x 0.0001 g	\$3,015.00
97626	GR-200	210 g x 0.0001 g	\$3,495.00
97627	GR-300	310 g x 0.0001 g	\$4,320.00
97628	GR-202	210/42 g x 0.0001/0.00001 g	\$4,930.00

### Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	\$73.00
97606	AD-1653	Density determination kit	\$552.00
97607	AD-1682	Rechargeable battery pack	\$678.00
97608	AD-8920A	Universal remote display	\$270.00
97609	AD-8922A	Remote controller	\$635.00
97610	AD-1683	Static eliminator	\$1,256.00
97612	SW-128	Foot switch	\$75.00
97649	TB-648	AC adapter (120V/220V)	\$43.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Impact dot matrix, statistical printer, includes cable	\$891.00

# HR-AZ/A Series

Analytical Balance

Capacity: 225g Readability: 0.00001g-0.0001g



## Standard Features

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

## Specifications

	HR-100A^	HR-100AZ^	HR-150A^	HR-150AZ^	HR-250A^	HR-250AZ^
Part#	150777	150779	150780	150781	150782	150783
List Price	\$1,795.00	\$2,240.00	\$1,920.00	\$2,350.00	\$2,085.00	\$2,555.00
Capacity (g)	102		152		252	
Resolution (g)	0.0001					
Operating Modes	Weighing, Percent Weighing, Parts Counting, Density					
Repeatability	0.1 mg				<200 mg 0.1 mg/>200 mg 0.2 mg	
Linearity	± 0.2 mg				± 0.3 mg	
Stabilization Time	3 seconds					
Operating Temperature	41° F to 104° F (5° C to 40° C), 85% RH or less (no condensation)					
Pan Size	Ø 3.6 inches (90 mm)					
Physical Dimensions	7.8 x 11.6 x 12.3 in (198 x 294 x 313 mm)					
Weight	8.6 lb (3.9 kg)					
Calibration Weight (g)	200		150		100	
Power	120/240 AC adapter					
Warranty	Five-year Limited Warranty					
Return Policy	A&D Weighing Standard Policy - restock fee may apply					
<b>UNIT OF MEASURE</b>						
Decimal Ounce	3.59 x 0.00001 oz	3.59 x 0.00001 oz	5.36 x 0.00001 oz	5.36 x 0.00001 oz	8.88 x 0.00001 oz	8.88 x 0.00001 oz
Troy Ounce	3.27 x 0.00001 ozt	3.27 x 0.00001 ozt	4.88 x 0.00001 ozt	4.88 x 0.00001 ozt	8.10 x 0.00001 ozt	8.10 x 0.00001 ozt
Pennyweight	65.5 x 0.0001 dwt	65.5 x 0.0001 dwt	97.7 x 0.0001 dwt	97.7 x 0.0001 dwt	162 x 0.0001 dwt	162 x 0.0001 dwt
Carat	510 x 0.001 ct	510 x 0.001 ct	760 x 0.001 ct	760 x 0.001 ct	1260 x 0.001 ct	1260 x 0.001 ct
Momme	27.2 x 0.0001 mom	27.2 x 0.0001 mom	40.5 x 0.0001 mom	40.5 x 0.0001 mom	67.2 x 0.0001 mom	67.2 x 0.0001 mom
Grain Unit	1,574 x 0.002 GN	1,574 x 0.002 GN	2,346 x 0.002 GN	2,346 x 0.002 GN	3,889 x 0.002 GN	3,889 x 0.002 GN
Tola	8.74 x 0.00001 to	8.74 x 0.00001 to	13.0 x 0.00001 to	13.0 x 0.00001 to	21.6 x 0.00001 to	21.6 x 0.00001 to
Tael	2.72 x 0.00001 TL	2.72 x 0.00001 TL	4.02 x 0.00001 TL	4.02 x 0.00001 TL	6.66 x 0.00001 TL	6.66 x 0.0001 TL

^ Weighing Chamber

### Part Number/Price

Part #	Model #	Description	Price
150777	HR-100A	102 g x 0.0001 g	\$1,795.00
150779	HR-100AZ	102 g x 0.0001 g	\$2,240.00
150780	HR-150A	152 g x 0.0001 g	\$1,920.00
150781	HR-150AZ	152 g x 0.0001 g	\$2,350.00
150782	HR-250A	252 g x 0.0001 g	\$2,085.00
150783	HR-250AZ	252 g x 0.0001 g	\$2,555.00

### Options/Accessories

Part #	A&D Model #	Description	Price
151247	AD-1688	Data logger	\$304.00
98027*	FXi-02	Quick USB interface with cable	\$87.00
98028*	FXi-08	Ethernet interface with WIN-CT Plus	\$480.00
98029*	FXi-09	Rechargeable battery	\$320.00
97649	TB:648	AC adapter (120V/220V)	\$43.00

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

# Orion HR Series

Analytical/Semi-Micro

Capacity: 51 g-320g    Readability: 0.00001 g-0.0001 g



## 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 operator of abnormal weighing conditions
- Underhook weighing
- Liquid crystal display (LCD)
- WinCT® communication tools software

*Note: Orion HR series does have internal calibration*

## Specifications

	HR-300i <sup>^</sup>	HR-202i <sup>^</sup>	
Part#	97642	97641	
List Price	\$4,185.00	\$4,645.00	
Capacity	320g	220/51g	
Resolution	0.0001g	0.0001/ 0.00001g	
Operating Modes	Percentage, Counting		
Repeatability	±0.0003mg	±0.0002/±0.00003g	
Linearity	0.0002mg	0.0001/0.00002g	
Stabilization Time	Approx. 3.5 seconds	Approx. 3.5/8 seconds	
Sensitivity Drift (10° C-30° C)	±2 ppm/° C (when automatic self calibration is not used)		
Operating Temperature	41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation)		
Pan Size	Ø 3.6 in (90mm)		
Dimensions	(W x D x H) 8.54 x 17.4 x 12.24 in (217 x 442 x 316 mm)		
RS-232	Y		
Weighing Chamber	(W x D x H) 6.45 x 5.84 x 9.88 in (164 x 148.5 x 251 mm)		
Weight	Approx. 17.6 lb (8.0 kg)		
Ext. Cal. Mass (optional)	300g/200g/100g	200g/100g/50g/20g	
Power	120V AC (AC adapter) 50 Hz/60 Hz (110, 220, 240V AC adapter available by special order)		
Warranty	Five-year limited warranty		
Return Policy	A&D Weighing Standard Policy - restock fee may apply		
UNIT OF MEASURE	Decimal Ounce	11.29 x 0.00001 oz	7.76 x 0.00001/1.8 x 0.000001 oz
	Troy Ounce	10.3 x 0.00001 ozt	7.07 x 0.00001/1.64 x 0.000001 ozt
	Pennyweight	199 x 0.0001 dwt	141.5 x 0.0001/32.8 x 0.00001 dwt
	Carat	1,550 x 0.001 ct	1,100 x 0.001/255 x 0.0001 ct
	Momme	82 x 0.0001 mom	58.7 x 0.0001/13.6 x 0.00001 mom
	Grain Unit	4,784 x 0.002 GN	3,395 x 0.002/787 x 0.0002 GN
	Tola	26 x 0.00001 to	18.8 x 0.00001/4.37 x 0.000001 to
	Tael	8.2 x 0.00001 TL	5.87 x 0.00001/1.36 x 0.000001 TL

<sup>^</sup> Weighing Chamber



## Part Number/Price

Part #	Model #	Description	Price
97642	HR-300i	320 g x 0.0001 g	\$4,185.00
97641	HR-202i	220/51 g x 0.0001/0.00001 g	\$4,645.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	\$73.00
97606	AD-1653	Density determination kit	\$552.00
97607	AD-1682	Rechargeable battery pack, external	\$678.00
97608	AD-8920A	Universal remote display	\$270.00
97610	AD-1683	Static eliminator	\$1,256.00
97609	AD-8922A	Remote controller	\$635.00
97649	TB:648	AC adapter (120V/220V)	\$43.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Impact dot matrix statistical printer, includes cable	\$891.00

# AD-4212A Series

Analytical Balances

Capacity: 110g-1100g    Readability: 0.00001g-0.001g

BALANCES



## 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
- Counting and percent mode
- Super Hybrid Sensor Technology (SHS)
- WinCT® communication tools software
- RS-232C bidirectional interface

## Specifications

	AD-4212A-100	AD-4212B-102	AD-4212A-200	AD-4212B-201	
Part #	97654	102925	97655	102926	
List Price	\$5,660.00	\$8,750.00	\$4,970.00	\$6,695.00	
Capacity	110g	110g	210g	210g	
Resolution	0.0001g	0.00001g	0.001g	0.0001g	
Operating Modes	Counting, Percentage				
Repeatability (Std. Dev.)	0.00015g	0.00015g	0.001g		
Linearity	±0.0003g	±0.0003g	±0.002g	±0.002g	
Stabilization Time (typical)	0g-30g Approx. 1.1 sec	0g-30g Approx. 1.1 sec	0g-30g Approx. 0.8 sec	0g-30g Approx. 0.8 sec	
	30g-110g Approx. 1.3 sec	30g-110g Approx. 1.3 sec	30g- 210g Approx. 1.0 sec	30g-210g Approx. 1.0 sec	
Sensitivity Drift	±2 ppm/°C 10°C to 30°C (50°F to 86°F)				
Operating Temperature	41°F to 104°F (5°C to 40°C) 85% RH or less (no condensation)				
I/O Interface	RS-232C	Bidirectional 600-19,200			
	Comparator Output	3 level output with buzzer			
	External Contact Input	Re-zero and print			
Weighing Unit	Dimensions	(W x D x H) 3.2 x 9.1 x 3.5 in (80 x 230 x 90 mm)			
	Weighing Pan	2 x 2 in (50 x 50 mm)			
Display Unit	Weight	Approx. 2 kg			
	Dimensions	(W x D x H) 9.3 x 6.0 x 6.1 in (237 x 150 x 155 mm)			
Connection Cable	Weight	Approx. 2 kg			
	Shipping Weight	Approx. 2 m (between weighing unit and display unit)			
Calibration Weight (OIML F1) (OPT)	50g	50g	100g	100g	
Power Supply	120V AC Adapter, 11 VA				
Warranty	Five-year Limited Warranty				
Return Policy	A&D Weighing Standard Policy - restock fee may apply				
UNIT OF MEASURE	Milligram	110,000.0 x 0.1 mg	110,000.0 x 0.01 mg	2,100,000 x 1 mg	210,000 x 0.1 mg
	Ounce	3.880135 x 0.000005 oz	3.880135 x 0.000005 oz	7.40755 x 0.00005 oz	7.40755 x 0.00005 oz
	Troy Ounce	3.536580 x 0.000005 ozt	3.536580 x 0.000005 ozt	6.75165 x 0.00005 ozt	6.75165 x 0.00005 ozt
	Carat	550.0 x 0.0005 ct	550.0 x 0.0005 ct	1,050.0 x 0.0005 ct	1,050.0 x 0.0005 ct
	Momme	29.33335 x 0.00005 mom	29.33335 x 0.00005 mom	56.0 x 0.0005 mom	56.0 x 0.0005 mom
	Pennyweight	70.7316 x 0.0001 dwt	70.7316 x 0.0001 dwt	135.033 x 0.001 dwt	135.033 x 0.001 dwt
	Grain	1,697.56 x 0.002 GN	1,697.56 x 0.002 GN	3,240.80 x 0.02 GN	3,240.80 x 0.02 GN
	Tael (HK Gen, Singapore)	2.910100 x 0.000005 TL	2.910100 x 0.000005 TL	5.55565 x 0.00005 TL	5.55565 x 0.00005 TL
	Tael (HK jewelry)	2.938900 x 0.000005 TL	2.938900 x 0.000005 TL	5.61060 x 0.00005 TL	5.61060 x 0.00005 TL
	Tael (Taiwan)	2.933335 x 0.000005 TL	2.933335 x 0.000005 TL	5.600 x 0.00005 TL	5.600 x 0.00005 TL
	Tael (China)	3.520 x 0.00005 TL	3.520 x 0.00005 TL	6.7200 x 0.00005 TL	6.7200 x 0.00005 TL
	Tola (India)	9.43089 x 0.00001 to	9.43089 x 0.00001 to	18.0044 x 0.0001 to	18.0044 x 0.0001 to
	Mesghal	23.46665 x 0.00005	23.46665 x 0.00005	44.80 x 0.0005	44.80 x 0.0005

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## Specifications

		AD-4212B-301	AD-4212A-600	AD-4212A-1000		
Part#		102927	97656	97657		
List Price		\$7,440.00	\$5,485.00	\$5,690.00		
Capacity		310g	610g	1,100g		
Resolution		0.0001 g	0.001 g			
Operating Modes		Counting, Percentage				
Repeatability (Std. Dev.)		0.001 g				
Linearity		±0.002 g	±0.0003 g			
Stabilization Time (typical)	0-30 g	Approx. 0.8 seconds	0-30 g	Approx. 0.9 seconds	0-30 g	Approx. 0.9 sec
	30-210 g	Approx. 1.0 second	30-610 g	Approx. 1.1 seconds	30-1100 g	Approx. 1.1 sec
Sensitivity Drift		±2 ppm/°C 50°F to 86°F (10°C to 30°C)				
Operating Temperature		41°F to 104°F (5°C to 40°C) 85% RH or less (no condensation)				
I/O Interface	RS-232C	Bidirectional 600-19,200				
	Comparator Output	3 level output with buzzer				
	External Contact Input	Re-zero and print				
Weighing Unit	Dimensions	(W x D x H) 3.2 x 9.1 x 3.5 in (80 x 230 x 90 mm)				
	Weighing Pan	2 x 2 in (50 x 50 mm)	2.8 x 2.8 in (70 x 70 mm)			
	Weight	Approx. 2 kg				
Display Unit	Dimensions	(W x D x H) 237 W x 150 D x 155 mm H				
	Weight	Approx. 2 kg				
Connection Cable		Approx. 2 m (between weighing unit and display unit)				
Shipping Weight		8.5 lb (4 kg)				
Calibration Weight (OIML F1)(OPT)		100g	200g			
Power Supply		120V AC Adapter, 11 VA				
Warranty		Five-year Limited Warranty				
Return Policy		A&D Weighing Standard Policy - restock fee may apply				
UNIT OF MEASURE	Milligram	2,100,000 x 1 mg	660,000 x 0.00005 mg	1,210,000 x 0.00005 mg		
	Ounce	7.40755 x 0.00005 oz	23.28081 x 0.00005 oz	42.681485 x 0.00005 oz		
	Troy Ounce	6.75165 x 0.00005 ozt	21.21948 x 0.00005 ozt	38.90238 x 0.00005 ozt		
	Carat	1050.0 x 0.005 ct	3300 x 0.005 ct	6050 x 0.005 ct		
	Momme	56.0 x 0.0005 mom	176.0001 x 0.0005 mom	322.66685 x 0.0005 mom		
	Pennyweight	135.033 x 0.001 dwt	424.3896 x 0.001 dwt	778.0476 x 0.001 dwt		
	Grain	3,240.80 x 0.02 GN	10,185.36 x 0.02 GN	18,673.16 x 0.02 GN		
	Tael (HK Gen, Singapore)	5.55565 x 0.00005 TL	17.4606 x 0.00005 TL	32.0111 x 0.00005 TL		
	Tael (HK jewelry)	5.61060 x 0.00005 TL	17.6334 x 0.00005 TL	32.3279 x 0.00005 TL		
	Tael (Taiwan)	5.600 x 0.00005 TL	17.60001 x 0.00005 TL	32.26685 x 0.00005 TL		
	Tael (China)	6.7200 x 0.00005 TL	21.12 x 0.00005 TL	38.72 x 0.00005 TL		
	Tola (India)	18.0044 x 0.0001 to	56.58534 x 0.0001 to	103.73979 x 0.0001 to		
	Mesghal	44.80 x 0.0005	140.7999 x 0.0005	258.13315 x 0.0005		

## Part Number/Price

Part#	A&D Model #	Description	Price
97654	AD-4212A-100	110g x 0.0001 g	\$5,660.00
102925	AD-4212B-102	110g x 0.00001 g	\$8,750.00
97655	AD-4212A-200	210g x 0.001 g	\$4,970.00
102926	AD-4212B-201	210g x 0.0001 g	\$6,695.00
102927	AD-4212B-301	210g x 0.0001 g	\$7,440.00
97656	AD-4212A-600	610g x 0.001 g	\$5,485.00
97657	AD-4212A-1000	1,100g x 0.001 g	\$5,690.00

## Options/Accessories

Part#	A&D Model #	Description	Price
97672	AD-4212A-01	BCD output (factory installed, four month lead time)	\$577.00
97674	AD-4212A-07	Extension cable, 3 m	\$164.00
97675	AD-4212A-08	Ethernet Interface with WinCT	\$788.00
97676	AD-4212A-19	Stainless steel breeze break (200g only)	\$106.00

# NEW

A&D WEIGHING

## Apollo GX Series

Toploader Balances

Capacity: 220g-10,200g    Readability: 0.001g-0.1g

BALANCES



### 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-232C and USB bidirectional interface
- 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
- Counting, Percentage, Animal Weighing, Density, Statistical and Comparator Modes
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underhook weighing

### Specifications

	GX-203A <sup>^</sup>	GX-403A <sup>^</sup>	GX-603A <sup>^</sup>	GX-1003A <sup>^</sup>	GX-2002A
Part #	191691	191693	191694	191695	191697
List Price	\$2,125.00	\$2,525.00	\$3,195.00	\$4,195.00	\$2,345.00
Capacity	220 g	420 g	620 g	1,100 g	2,200 g
Resolution	0.001 g	0.001 g	0.001 g	0.001 g	0.01 g
Operating Modes	Animal Weighing, Comparator Function, ACAI Counting, Percentage, Density Determination, Statistical Calculation				
Repeatability	0.001 g				0.01 g
Linearity	±0.002 g			±0.003 g	±0.02 g
Stabilization Time	Approx. 1 second				
Display Refresh	5 times per second/10 times per second/20 times per second				
Operating Temperature	41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation)				
Pan Size	5 x 5 in (128 x 128 mm)				
Dimensions	(W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm)				
Weighing Chamber	3 in H (85 mm H)				
Est. Ship Weight	11 lb (5 kg)				
Power	120VAC adapter, Approx. 30VA				
Warranty	Five-year Limited Warranty				
Return Policy	A&D Weighing Standard Policy - restock fee may apply				
Gram	220 x 0.001 g	420 x 0.001 g	620 x 0.001 g	1100 x 0.001 g	2200 x 0.01 g
Ounce (Avoir)	7.76 x 0.00005 g	14.81 x 0.00005 g	21.86 x 0.00005 g	38.80 x 0.00005 g	77.6 x 0.0005 g
Pound	0.485 x 0.000005 g	0.925 x 0.000005 g	1.366 x 0.000005 g	2.425 x 0.000005 g	4.85 x 0.00005 g
Pound/Ounce	0 lb 7.76 oz x 0.01 oz	0 lb 14.81 oz x 0.01 oz	1 lb 5.86 oz x 0.01 oz	2 lb 6.80 oz x 0.01 oz	4 lb 13.60 oz x 0.01 oz
Troy Ounce	7.07 x 0.00005 g	13.50 x 0.00005 g	19.93 x 0.00005 g	35.36 x 0.00005 g	70.7 x 0.0005 g
Metric Carat	1100 x 0.005 g	2100 x 0.005 g	3100 x 0.005 g	5500 x 0.005 g	11000 x 0.05 g
Momme	58.6 x 0.0005 g	112.0 x 0.0005 g	165.3 x 0.0005 g	293.3 x 0.0005 g	586 x 0.005 g
Pennyweight	141 x 0.001 g	270 x 0.001 g	398 x 0.001 g	707 x 0.001 g	1414 x 0.01 g
Grain (UK)	3395 x 0.02 g	6481 x 0.02 g	9568 x 0.02 g	16975 x 0.02 g	33951 x 0.2 g
Tael (HK general, Singapore)	5.82 x 0.00005 g	11.11 x 0.00005 g	16.40 x 0.00005 g	29.10 x 0.00005 g	58.2 x 0.0005 g
Tael (HK jewelry)	5.87 x 0.00005 g	11.22 x 0.00005 g	16.56 x 0.00005 g	29.38 x 0.00005 g	58.7 x 0.0005 g
Tael (Taiwan)	5.86 x 0.00005 g	11.20 x 0.00005 g	16.53 x 0.00005 g	29.33 x 0.00005 g	58.6 x 0.0005 g
Tael (China)	7.04 x 0.00005 g	13.44 x 0.00005 g	19.84 x 0.00005 g	35.20 x 0.00005 g	70.4 x 0.0005 g
Tola (India)	18.8 x 0.0001 g	36.0 x 0.0001 g	53.1 x 0.0001 g	94.3 x 0.0001 g	188 x 0.001 g
Mesghal	46.9 x 0.0005 g	89.6 x 0.0005 g	132.2 x 0.0005 g	234.6 x 0.0005 g	769 x 0.005 g

<sup>^</sup> Weighing Chamber

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## Specifications

	GX-4002A	GX-6001A	GX-6002A	GX-10001A	GX-10002A	
Part#	191701	191705	191702	191706	191704	
List Price	\$2,995.00	\$2,250.00	\$3,295.00	\$2,985.00	\$3,600.00	
Capacity	4,200g	6,200g	6,200g	10,200g	10,200g	
Resolution	0.01 g	0.1 g	0.01 g	0.1 g	0.01 g	
Operating Modes	Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation					
Repeatability	0.01 g	0.1 g	0.01 g	0.1 g	0.02 g	
Linearity	±0.02 g	±0.01 g	±0.03 g	±0.01 g	±0.03 g	
Stabilization Time	Approx. 1 second				Approx. 1.5 seconds	
Display Refresh	5 times per second/10 times per second/20 times per second					
Operating Temperature	41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation)					
Pan Size	5 x 5 in (128 x 128 mm)				6.5 x 6.5 in (165 mm x 165 mm)	
Dimensions	(W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm)					
Est. Ship Weight	11 lb (5 kg)					
Power	120/240VAC adapter, Approx. 30VA					
Warranty	Five-year Limited Warranty					
Return Policy	A&D Weighing Standard Policy - restock fee may apply					
UNIT OF MEASURE	Gram	4200 x 0.01 g	6200 x 0.1 g	6200 x 0.01 g	10200 x 0.1 g	10,200 x 0.01 g
	Ounce (Avoir)	148.1 x 0.0005 g	218 x 0.005 g	218.6 x 0.0005 g	359 x 0.005 g	359.7 x 0.0005 g
	Pound	9.25 x 0.00005 g	13.6 x 0.0005 g	13.66 x 0.00005 g	22.4 x 0.0005 g	22.48 x 0.00005 g
	Pound/Ounce	9lb 4.15 oz x 0.01 oz	13lb 10.69 oz x 0.01 oz	13lb 10.69 oz x 0.01 oz	22lb 7.79 oz x 0.01 oz	22lb 7.79 oz x 0.01 oz
	Troy Ounce	135.0 x 0.0005 g	199 x 0.005 g	199.3 x 0.0005 g	327 x 0.005 g	327.9 x 0.0005 g
	Metric Carat	21000 x 0.05 g	31000 x 0.5 g	31000 x 0.05 g	51000 x 0.5 g	51000 x 0.05 g
	Momme	1120 x 0.005 g	1653 x 0.05 g	1653 x 0.005 g	2720 x 0.05 g	2720 x 0.005 g
	Pennyweight	2700 x 0.01 g	3986 x 0.1 g	3986 x 0.01 g	6558 x 0.1 g	6558 x 0.01 g
	Grain (UK)	64815 x 0.2 g	95680 x 2 g	95680 x 0.2 g	157410 x 2 g	157410 x 0.2 g
	Tael (HK general, Singapore)	111.1 x 0.0005 g	164.0 x 0.005 g	164.0 x 0.0005 g	269.0 x 0.005 g	269.8 x 0.0005 g
	Tael (HK jewelry)	112.2 x 0.0005 g	165.0 x 0.00005 g	165.6 x 0.0005 g	272.0 x 0.005 g	272.5 x 0.0005 g
	Tael (Taiwan)	112.0 x 0.0005 g	165.0 x 0.005 g	165.3 x 0.0005 g	272.0 x 0.005 g	272.0 x 0.0005 g
	Tael (China)	134.4 x 0.0005 g	198.0 x 0.005 g	198.4 x 0.0005 g	326.0 x 0.005 g	326.4 x 0.0005 g
Tola (India)	360 x 0.001 g	531.0 x 0.01 g	531 x 0.001 g	874.0 x 0.01 g	874 x 0.001 g	
Mesghal	896 x 0.005 g	1322 x 0.05 g	1322 x 0.005 g	2176 x 0.05 g	2176 x 0.005 g	

# NEW

A&D WEIGHING

## Apollo GX Series

Toploader Balances

BALANCES

### Part Number/Price

Part #	Model #	Description	Price
191691	GX-203A	220 g x 0.001 g	\$2,125.00
191693	GX-403A	420 g x 0.001 g	\$2,525.00
191694	GX-603A	620 g x 0.001 g	\$3,195.00
191695	GX-1003A	1,100 g x 0.001 g	\$4,195.00
191697	GX-2002A	2,200 g x 0.01 g	\$2,345.00
191701	GX-4002A	4,200 g x 0.01 g	\$2,995.00
191705	GX-6001A	6,200 g x 0.1 g	\$2,250.00
191702	GX-6002A	6,200 g x 0.01 g	\$3,295.00
191706	GX-10001A	10,200 g x 0.1 g	\$2,985.00
191704	GX-10002A	10,200 g x 0.01 g	\$3,600.00

### Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9P male)	\$225.00
192663	GXA-04	Comparator output (requires 192667)	\$215.00
192667	AX-K05692	MiniDIN 8 pin male for GXA-04	\$45.00
192671	GXA-06	Analog output (requires 192673)	\$215.00
192673	AX-K05693	MiniDIN 4 pin male for GXA-06	\$45.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$450.00
192675	GXA-10	Large glass breeze break	\$314.29
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$136.19
192677	GXA-13	Density determination kit (for 1 mg models only)	\$492.38
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$925.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$205.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$205.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$199.00
192682	GXA-24	USB host interface (USB A type)	\$105.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$795.00
192684	GXA-26	External IR switch (MiniDIN 4 pin male)	\$167.60

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RICE LAKE



# NEW

A&D WEIGHING

## Apollo GF Series

Toploader Balances

Capacity: 220g-8100g Readability: 0.001g-0.1g

BALANCES



### 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-232C and USB bidirectional interface
- 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
- Counting, Percentage, Animal Weighing, Density, Statistical and Comparator Modes
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underhook weighing

### Specifications

	GF-203A <sup>^</sup>	GF-303A <sup>^</sup>	GF-403A <sup>^</sup>	GF-603A <sup>^</sup>	GF-1003A <sup>^</sup>	GF-1603A <sup>^</sup>	GF-1202A
Part#	191707	191708	191709	191710	191711	191712	191713
List Price	\$1,789.00	\$1,889.00	\$2,246.00	\$2,496.00	\$3,295.00	\$3,046.00	\$2,225.00
Capacity	220 g	320 g	420 g	620 g	1,100 g	1,620 g	1,220 g
Resolution	0.001 g	0.001 g	0.001 g	0.001 g	0.001 g	0.001 g	0.01 g
Operating Modes	Animal Weighing, Comparator Function, ACAI Counting, Percentage, Density Determination, Statistical Calculation						
Repeatability	0.001 g			±0.003 g		0.002 g	0.01 g
Linearity	±0.002 g		±0.003 g				±0.02 g
Stabilization Time	Approx 1 second			Approx. 1.5 seconds		Approx. 1 sec	
Operating Temperature	41° F to 104° F (5° C to 40° C)						
Weighing Chamber	3 in H (85 mm H)						-
Pan Size	5 x 5 in (128 x 128 mm)						165 x 165 mm (6.5 x 6.5 in)
Dimensions	(W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm)						
Est. Ship Weight	11 lb (5 kg)						
Power	120VAC adapter, Approx. 30VA						
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
Gram	220 x 0.001 g	320 x 0.001 g	420 x 0.001 g	620 x 0.001 g	1100 x 0.001 g	1620 x 0.001 g	1220 x .01 g
Ounce (Avoir)	7.76 x 0.00005 g	11.28 x 0.00005 g	14.81 x 0.00005 g	21.86 x 0.00005 g	38.80 x 0.00005 g	57.14 x 0.00005 g	43.0 x 0.00005 g
Pound	0.485 x 0.000005 g	0.705 x 0.000005 g	0.925 x 0.000005 g	1.366 x 0.000005 g	2.425 x 0.000005 g	3.571 x 0.000005 g	2.68 x 0.000005 g
Pound/Ounce	0 lb 7.76 oz x 0.01 oz	0 lb 11.28 oz x 0.01 oz	0 lb 14.81 oz x 0.01 oz	1 lb 5.86 oz x 0.01 oz	2 lb 6.80 oz x 0.01 oz	3 lb 9.14 oz x 0.01 oz	2 lb 11.03 oz x 0.01 oz
Troy Ounce	7.07 x 0.00005 g	10.28 x 0.00005 g	13.50 x 0.00005 g	19.93 x 0.00005 g	35.36 x 0.00005 g	52.08 x 0.00005 g	39.2 x 0.00005 g
Metric Carat	1100 x 0.005 g	1600 x 0.005 g	2100 x 0.005 g	3100 x 0.005 g	5500 x 0.005 g	8100 x 0.005 g	6100 x 0.05 g
Momme	58.6 x 0.0005 g	85.3 x 0.0005 g	112.0 x 0.0005 g	165.3 x 0.0005 g	293.3 x 0.0005 g	432.0 x 0.0005 g	325 x 0.005 g
Pennyweight	141 x 0.001 g	205 x 0.001 g	270 x 0.001 g	398 x 0.001 g	707 x 0.001 g	1041 x 0.001 g	784 x 0.01 g
Grain (UK)	3395 x 0.02 g	4938 x 0.02 g	6481 x 0.02 g	9568 x 0.02 g	16975 x 0.02 g	25000 x 0.02 g	18827 x 0.2 g
Tael (HK general, Singapore)	5.82 x 0.00005 g	8.46 x 0.00005 g	11.11 x 0.00005 g	16.40 x 0.00005 g	29.10 x 0.00005 g	42.85 x 0.00005 g	32.2 x 0.00005 g
Tael (HK jewelry)	5.87 x 0.00005 g	8.54 x 0.00005 g	11.22 x 0.00005 g	16.56 x 0.00005 g	29.38 x 0.00005 g	43.28 x 0.00005 g	32.5 x 0.00005 g
Tael (Taiwan)	5.86 x 0.00005 g	8.53 x 0.00005 g	11.20 x 0.00005 g	16.53 x 0.00005 g	29.33 x 0.00005 g	43.20 x 0.00005 g	32.5 x 0.00005 g
Tael (China)	7.04 x 0.00005 g	10.24 x 0.00005 g	13.44 x 0.00005 g	19.84 x 0.00005 g	35.20 x 0.00005 g	51.84 x 0.00005 g	39.0 x 0.00005 g
Tola (India)	18.8 x 0.0001 g	27.4 x 0.0001 g	36.0 x 0.0001 g	53.1 x 0.0001 g	94.3 x 0.0001 g	138.8 x 0.0001 g	104 x 0.001 g
Mesghal	46.9 x 0.0005 g	68.2 x 0.0005 g	89.6 x 0.0005 g	132.2 x 0.0005 g	234.6 x 0.0005 g	345.6 x 0.0005 g	260 x 0.005 g

<sup>^</sup> Weighing Chamber

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RICE LAKE



## Specifications

	GF-2002A	GF-3002A	GF-4002A	GF-6002A	GF-6001A	GF-10001A	GF-10002A	
Part#	191714	191715	191716	191717	192486	192487	191718	
List Price	\$1,968.00	\$2,150.00	\$2,300.00	\$2,750.00	\$2,025.00	\$3,083.00	\$2,850.00	
Capacity	2,200 g	3,200 g	4,200 g	6,200 g	6,200 g	10,200 g	10,200 g	
Resolution	0.01 g	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g	0.01 g	
Operating Modes	Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation							
Repeatability	0.01 g					0.1 g	0.1 g	
Linearity	±0.02 g		±0.03 g		±0.1 g		±0.03 g	
Stabilization Time	Approx. 1 second					Approx. 1.5 seconds		
Operating Temperature	41° F to 104° F (5° C to 40° C)							
Pan Size	5 x 5 in (128 x 128 mm)						6.5 x 6.5 in (165 mm x 165 mm)	
Dimensions	(W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm)							
Est. Ship Weight	11 lb (5 kg)							
Power	120/240VAC adapter, Approx. 30VA							
Warranty	Five-year Limited Warranty							
Return Policy	A&D Weighing Standard Policy - restock fee may apply							
UNIT OF MEASURE	Gram	2200 x 0.01 g	3200 x 0.01 g	4200 x 0.01 g	6200 x 0.01 g	6200 x 0.1 g	10200 x 0.1 g	
	Ounce (Avoir)	77.6 x 0.0005 g	112.8 x 0.0005 g	148.1 x 0.0005 g	218.6 x 0.0005 g	218 x 0.005 g	359.7 x 0.0005 g	
	Pound	4.85 x 0.00005 g	7.05 x 0.00005 g	9.25 x 0.00005 g	13.66 x 0.00005 g	13.6 x 0.0005 g	22.4 x 0.0005 g	
	Pound/Ounce	4 lb 13.60 oz x 0.01 oz	7 lb 0.87 oz x 0.01 oz	9 lb 4.15 oz x 0.01 oz	13 lb 10.69 oz x 0.01 oz	13 lb 10.69 oz x 0.01 oz	22 lb 7.79 oz x 0.01 oz	22 lb 7.79 oz x 0.01 oz
	Troy Ounce	70.7 x 0.0005 g	102.8 x 0.0005 g	135.0 x 0.0005 g	199.3 x 0.0005 g	199 x 0.005 g	327 x 0.005 g	
	Metric Carat	11000 x 0.05 g	16000 x 0.05 g	21000 x 0.05 g	31000 x 0.05 g	31000 x 0.5 g	51000 x 0.5 g	
	Momme	586 x 0.005 g	853 x 0.005 g	1120 x 0.005 g	1653 x 0.005 g	1653 x 0.05 g	2720 x 0.05 g	
	Pennyweight	1414 x 0.01 g	2057 x 0.01 g	2700 x 0.01 g	3986 x 0.01 g	3986 x 0.1 g	6558 x 0.1 g	
	Grain (UK)	33951 x 0.2 g	49383 x 0.2 g	64815 x 0.2 g	95680 x 0.2 g	95680 x 2 g	157410 x 2 g	
	Tael (HK general, Singapore)	58.2 x 0.0005 g	84.6 x 0.0005 g	111.1 x 0.0005 g	164.0 x 0.0005 g	164.0 x 0.005 g	269.0 x 0.005 g	
	Tael (HK jewelry)	58.7 x 0.0005 g	85.4 x 0.0005 g	112.2 x 0.0005 g	165.6 x 0.0005 g	165.0 x 0.00005 g	272.0 x 0.005 g	
	Tael (Taiwan)	58.6 x 0.0005 g	85.3 x 0.0005 g	112.0 x 0.0005 g	165.3 x 0.0005 g	165.0 x 0.005 g	272.0 x 0.005 g	
	Tael (China)	70.4 x 0.0005 g	102.4 x 0.0005 g	134.4 x 0.0005 g	198.4 x 0.0005 g	198.0 x 0.005 g	326.0 x 0.005 g	
	Tola (India)	188 x 0.001 g	274 x 0.001 g	360 x 0.001 g	531 x 0.001 g	531.0 x 0.01 g	874.0 x 0.01 g	
Mesghal	769 x 0.005 g	682 x 0.005 g	896 x 0.005 g	1322 x 0.005 g	1322 x 0.05 g	2176 x 0.05 g		

# NEW

A&D WEIGHING

## Apollo GF Series

Toploader Balances

BALANCES

### Part Number/Price

Part #	Model #	Description	Price
191707	GF-203A	220 g x 0.001 g	\$1,789.00
191708	GF-303A	320 g x 0.001 g	\$1,889.00
191709	GF-403A	420 g x 0.001 g	\$2,246.00
191710	GF-603A	620 g x 0.001 g	\$2,496.00
191711	GF-1003A	1,100 g x 0.001 g	\$3,295.00
191712	GF-1603A	1,620 g x 0.001 g	\$3,046.00
191713	GF-1202A	1,220 g x 0.01 g	\$2,225.00
191714	GF-2002A	2,200 g x 0.01 g	\$1,968.00
191715	GF-3002A	3,200 g x 0.01 g	\$2,150.00
191716	GF-4002A	4,200 g x 0.01 g	\$2,300.00
191717	GF-6002A	6,200 g x 0.01 g	\$2,750.00
192486	GF-6001A	6,200 g x 0.1 g	\$2,025.00
192487	GF-10001A	10,200 g x 0.1 g	\$3,083.00
191718	GF-10002A	10,200 g x 0.01 g	\$2,850.00

### Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9P male)	\$225.00
192663	GXA-04	Comparator output (requires 192667)	\$215.00
192667	AX-K05692	MiniDIN 8 pin male for GXA-04	\$45.00
192671	GXA-06	Analog output (requires 192673)	\$215.00
192673	AX-K05693	MiniDIN 4 pin male for GXA-06	\$45.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	\$450.00
192675	GXA-10	Large glass breeze break	\$314.29
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	\$136.19
192677	GXA-13	Density determination kit (for 1 mg models only)	\$492.38
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	\$925.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	\$205.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	\$205.00
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	\$199.00
192682	GXA-24	USB host interface (USB A type)	\$105.00
192683	GXA-25	External fanless ionizer (static eliminator)	\$795.00
192684	GXA-26	External IR switch (MiniDIN 4 pin male)	\$167.60

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RICE LAKE

Capacity: 210g-310g    Readability: 0.001 g

## Standard Features

- Pill-counting feature also complies with Handbook 44 requirements
- Fast, Super Hybrid Sensor (SHS) response in just one second
- Nine weighing modes
- GLP/GMP/ISO compliance
- WinCT® communication tools software included
- Tough die-cast aluminum housing
- Removable stainless steel pan 5 in x 5 in (127 mm x 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



APPROVALS



## Specifications

		GF-200P <sup>^</sup>	GF-300P <sup>^</sup>
<b>NTEP</b>	<b>Part#</b>	97799	97800
	<b>List Price</b>	\$1,385.00	\$1,650.00
<b>Capacity</b>		210g	310g
<b>Resolution</b>		0.001 g	0.001 g
<b>Operating Modes</b>		Weigh, Count and Percent	
<b>Decimal Ounce</b>		7.40755 x 0.00005 oz	10.93493 x 0.00005 oz
<b>Repeatability</b>		0.001 g	
<b>Linearity</b>		±0.002 g	
<b>Stabilization Time</b>		Approx 1 second (typical in FAST mode)	
<b>Operating Temperature</b>		41°F to 104°F (5°C to 40°C)	
<b>Weighing Chamber</b>		3.6 in H (91.4 mm)	
<b>Pan Size</b>		5 x 5 in (127 mm)	
<b>Dimensions</b>		8.27 x 12.48 x 3.39 in (210 x 317 x 86 mm)	
<b>Weight (Approx.)</b>		2.15 lb (4.6 kg)	
<b>Est. Ship Weight</b>		11 lb (5.2 kg)	
<b>Power</b>		110/220V VAC adapter	
<b>Approvals</b>		NTEP CC 04-077 e=0.01g	
<b>Warranty</b>		Five-year Limited Warranty	
<b>Return Policy</b>		A&D Weighing Standard Policy - restock fee may apply	

<sup>^</sup> Weighing Chamber

## Part Number/ Price

Part #	Model #	Description	Price
97799	GF-200P	210 g x 0.001 g	\$1,385.00
97800	GF-300P	310 g x 0.001 g	\$1,650.00

## Options/Accessories

Part #	A&D Model #	Description	Price
102891	GX-02	USB option	\$155.00
97697	GX-10	Glass breeze break for GF-200 and 300	\$282.00
97703	AX:073003691-S	Protective in-use cover for GF-200/300 (each)	\$22.00
97649	TB:648	AC adapter (120V/220V) standard with unit	\$43.00



### 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-232C bidirectional communication
- Multiple units of measurement
- Response indicator function
- Underhook weighing

*Note: FX-i NTEP Certified and FX-i models available by special order (internal calibration)*

### APPROVALS



Measurement  
 Canada  
 Approved

### Optional Features

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

### Specifications

	FX-120i <sup>^</sup>	FX-200i <sup>^</sup>	FX-300i <sup>^</sup>	FX-300iNC <sup>^</sup>
Part #	98021	98022	98023	—
List Price	\$1,065.00	\$1,100.00	\$1,160.00	—
<b>Canada</b> Part #	—	—	—	168077
<b>Canada</b> List Price	—	—	—	\$1,210.00
Capacity	122 g	220 g	320 g	320 g
Resolution	0.001 g	0.001 g	0.001 g	0.001 g
Operating Modes	Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator			
Repeatability	0.001 g			
Linearity	±0.002 g			
Stabilization Time	Approx. 1 second			
Sensitivity Drift	±2ppm/° C			
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 (no condensation)			
Pan Size	130 mm (5.12 in)			
Dimensions	(W x D x H) 7.6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm)			
Weight	Approx. 2.5 kg			
Est. Ship Weight	8 lb (3.5 kg)			
External Calibration (weight optional)	100 g	200 g	300 g	300 g
Power Consumption	120/240V AC adapter, approx. 11 VA			
Approvals	-	-	-	e=0.01g, AM-5692
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			
<b>UNIT OF MEASURE</b> Decimal Ounce	4.30 x 0.00005 oz	7.76 x 0.00005 oz	11.28 x 0.00005 oz	—
Pound	0.268 x 0.000005 lb	0.485 x 0.000005 lb	0.705 x 0.000005 lb	—
Pound/Ounce	0 lb, 4.30 oz x 0.01 oz	0 lb, 7.76 oz x 0.01 oz	0 lb, 11.29 oz x 0.01 oz	—
Troy Ounce	3.92 x 0.00005 ozt	7.07 x 0.00005 ozt	10.28 x 0.00005 ozt	—
Carat	610 x 0.005 ct	1,100 x 0.005 ct	1,600 x 0.005 ct	—
Pennyweight	78.6 x 0.001 dwt	141.7 x 0.001 dwt	206.2 x 0.001 dwt	—
Grain Unit	1,882 x 0.02 GN	3,395 x 0.02 GN	4,938 x 0.02 GN	—

<sup>^</sup>Weighing Chamber

## Specifications

	FX-1200i	1200iNC	FX-2000i	FX-3000i
Part#	98024	—	98025	98026
List Price	\$1,100.00	—	\$1,150.00	\$1,190.00
<b>NTEP</b>	Part#	163641	—	—
	List Price	\$1,150.00	—	—
<b>Canada</b>	Part#	—	168076	—
	List Price	—	\$1,150.00	—
Capacity	1,220g	1,220g	2,200g	3,200g
Resolution	0.01 g	0.01 g	0.01 g	0.01 g
Operating Modes	Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator			
Repeatability	0.01 g			
Linearity	±0.02 g			
Stabilization Time	Approx. 1 second			
Sensitivity Drift	±2 ppm/° C			
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 (no condensation)			
Pan Size	150 mm (5.90 in)			
Dimensions	(W x D x H) 7.6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm)			
Weight	Approx. 2.5 kg			
Est. Ship Weight	8 lb (3.5 kg)			
External Calibration (weight optional)	1,000g	1,000g	2,000g	3,000g
Power Consumption	120/240V AC adapter, approx. 11 VA			
Approvals	NTEP 08-045 e=0.1g (PN 163641 only)	e=0.1g, AM-5692	—	—
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			
<b>UNIT OF MEASURE</b>	Decimal Ounce	4.30 x 0.00005 oz	—	77.6 x 0.0005 oz
	Pound	0.268 x 0.000005 lb	—	4.85 x 0.00005 lb
	Pound/Ounce	0 lb, 4.30 oz x 0.01 oz	—	4 lb, 13.60 oz x 0.01 oz
	Troy Ounce	3.92 x 0.00005 ozt	—	70.7 x 0.0005 ozt
	Carat	610 x 0.005 ct	—	11,000 x 0.05 ct
	Pennyweight	78.6 x 0.001 dwt	—	1,417 x 0.01 dwt
	Grain Unit	1,882 x 0.02 GN	—	33,951 x 0.2 GN

^Weighing Chamber

## Part Number/Price

Part #	Model #	Description	Price
98021	FX-120i	122 g x 0.001 g	\$1,065.00
98022	FX-200i	220 g x 0.001 g	\$1,100.00
98023	FX-300i	320 g x 0.001 g	\$1,160.00
168077	FX-300iNC	320 g x 0.001 g, Canada grams only	\$1,210.00
98024	FX-1200i	1,220 g x 0.01 g	\$1,100.00
163641	FX-1200iN	1,220 g x 0.01 g	\$1,150.00
168076	FX-1200iNC	1,220 g x 0.01 g, Canada grams only	\$1,150.00
98025	FX-2000i	2,200 g x 0.01 g	\$1,150.00
98026	FX-3000i	3,200 g x 0.01 g	\$1,190.00

## Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	\$87.00
98028*	FXi-08	Ethernet interface with WinCT® Plus software	\$480.00
98029*	FXi-09	Built-in rechargeable battery	\$320.00
98030	FXi-10	Small breeze break	\$77.00
98031	FXi-11	Large breeze break	\$130.00
97649	TB-648	AC adapter (120V/220V)	\$43.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Dot matrix statistical printer	\$891.00

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

# FX-iWP Series

Toploader/Washdown Balances

Capacity: 122g-3,200g    Readability: 0.001 g-0.01 g



## 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-232C bidirectional communication
- Multiple units of measurement
- Response indicator function
- Underhook weighing

## Optional Features

- Optional built-in rechargeable battery
- LAN-Ethernet interface
- WinCT<sup>®</sup> communication tools software

## Specifications

	FX-120iWP <sup>^</sup>	FX-200iWP <sup>^</sup>	FX-300iWP <sup>^</sup>	FX-1200iWP	FX-2000iWP	FX-3000iWP	
Part#	102905	102906	102907	102908	102909	102910	
List Price	\$1,485.00	\$1,565.00	\$1,670.00	\$1,480.00	\$1,565.00	\$1,665.00	
Capacity	122 g	220 g	320 g	1,220 g	2,200 g	3,200 g	
Resolution	0.001 g	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g	
Repeatability		0.001 g			0.01 g		
Linearity		±0.002 g			±0.02 g		
Stabilization Time	Approx. 1 second						
Sensitivity Drift	±2 ppm/° C						
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 (no condensation)						
Pan Size	Ø 5.12 in (130 mm)			Ø 5.90 in (150 mm)			
Dimensions	(W x D x H) 6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm)						
Weight	Approx. 2.5 kg						
Est. Ship Weight	8 lb (3.5 kg)						
External Calibration (weight optional)	100 g	200 g	300 g	1,000 g	2,000 g	3,000 g	
Power Consumption	120/240VAC adapter, approx. 11 VA						
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
UNIT OF MEASURE	Decimal Ounce	4.30 x 0.00005 oz	7.76 x 0.00005 oz	11.28 x 0.00005 oz	43.0 x 0.0005 oz	77.6 x 0.0005 oz	112.8 x 0.0005 oz
	Pound	0.268 x 0.000005 lb	0.485 x 0.000005 lb	0.705 x 0.000005 lb	2.68 x 0.00005 lb	4.85 x 0.00005 lb	7.05 x 0.00005 lb
	Pound x Ounce	0 lb, 4.30 oz x 0.01 oz	0 lb, 7.76 oz x 0.01 oz	0 lb, 11.29 oz x 0.01 oz	2 lb, 11.03 oz x 0.01 oz	4 lb, 13.60 oz x 0.01 oz	7 lb, 0.88 oz x 0.01 oz
	Troy Ounce	3.92 x 0.00005 ozt	7.07 x 0.00005 ozt	10.28 x 0.00005 ozt	39.2 x 0.0005 ozt	70.7 x 0.0005 ozt	102.8 x 0.0005 ozt
	Carat	610 x 0.005 ct	1,100 x 0.005 ct	1,600 x 0.005 ct	6,100 x 0.05 ct	11,000 x 0.05 ct	16,000 x 0.05 ct
	Pennyweight	78.6 x 0.001 dwt	141.7 x 0.001 dwt	206.2 x 0.001 dwt	786 x 0.01 dwt	1,417 x 0.01 dwt	2,062 x 0.01 dwt
	Grain Unit	1,882 x 0.02 GN	3,395 x 0.02 GN	4,938 x 0.02 GN	18,827 x 0.2 GN	33,951 x 0.2 GN	49,383 x 0.2 GN

<sup>^</sup>Weighing Chamber

## Part Number/Price

Part #	Model #	Description	Price
102905	FXi-120iWP	122 g x 0.001 g	\$1,485.00
102906	FXi-200iWP	220 g x 0.001 g	\$1,565.00
102907	FXi-300iWP	320 g x 0.001 g	\$1,670.00
102908	FXi-1200iWP	1,220 g x 0.01 g	\$1,480.00
102909	FXi-2000iWP	2,200 g x 0.01 g	\$1,565.00
102910	FXi-3000iWP	3,200 g x 0.01 g	\$1,665.00

## Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	\$87.00
98028*	FXi-08	Ethernet interface with WinCT® Plus software	\$480.00
98029*	FXi-09	Built-in rechargeable battery	\$320.00
98030	FXi-10	Small breeze break	\$77.00
98031	FXi-11	Large breeze break	\$130.00
97649	TB:648	AC adapter (120V/220V)	\$43.00

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



### 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

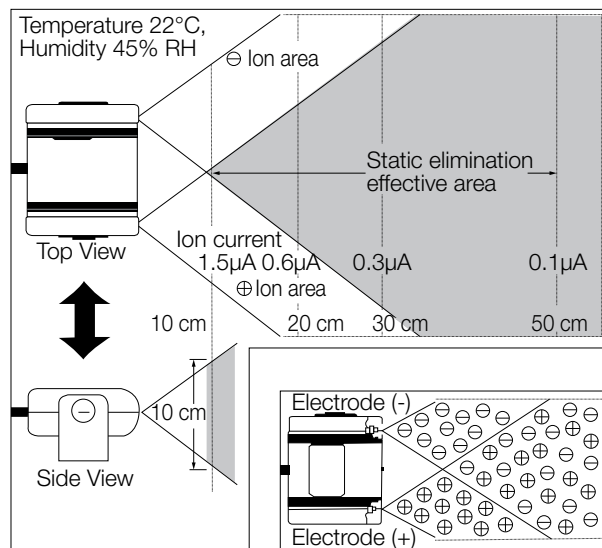
### Specifications

<b>AD-1683</b>	
Part #	97610
List Price	\$1,256.00
Elimination Range	Distance: 10 cm to 30 cm from the electrode area: 30 cm x 30 cm
Static Elimination Method	DC corona discharge DUAL-DC
Static Eliminating Electrode	Tungsten emitter
Environmental Conditions	-5° C to 40° C, 35% to 85%RH (non-condensing)
Weight	300 g
Power	100-240V AC, 50/60 Hz, 1.5V AC
Warranty	One-year Limited Warranty
Return Policy	A&D Weighing Standard Policy - restock fee may apply

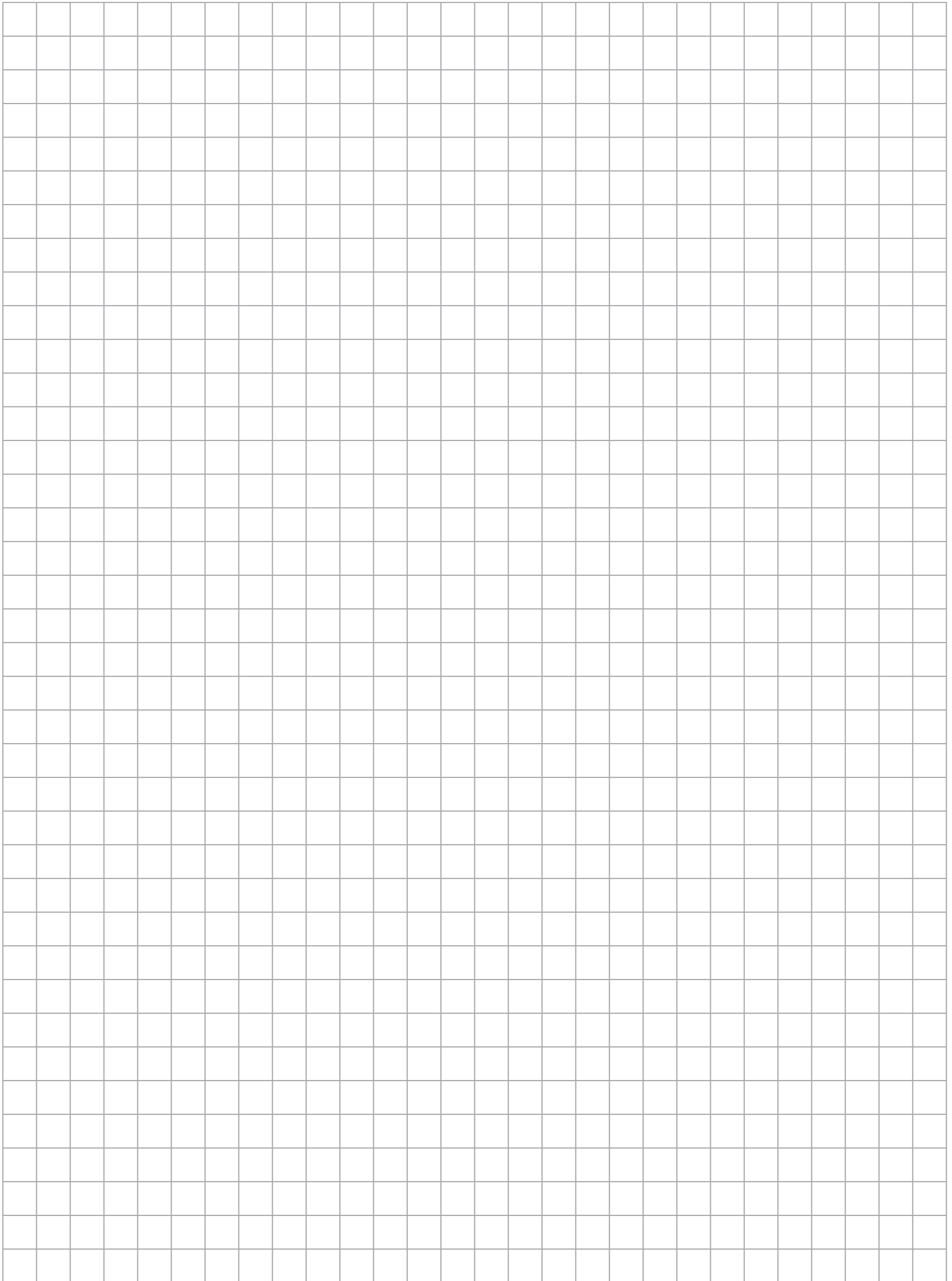
### Part Number/Price

Part #	Model #	Description	Price
97610	AD-1683	Static eliminator, balance accessory	\$1,256.00

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







# EJ Newton Series

Compact Balances

Capacity: 120g-6,100g    Readability: 0.001 g

BALANCES



EJ-200



EJ-2000

## Standard Features

- Easy-to-read seven segment LCD display with backlight
- 10 units of measurement
- Battery operated (4 AA not included)
- Selectable Modes: Weight, Count, Percentage and Specific Gravity
- 115VAC adapter included (230VAC optional)

## Specifications

	EJ-123 <sup>^</sup>	EJ-120	EJ-200	EJ-300	EJ-410	EJ-610	
Part#	163274	112410	112411	112412	112413	112414	
List Price	\$530.00	\$280.00	\$340.00	\$400.00	\$435.00	\$575.00	
Capacity	120 g	120 g	210 g	310 g	410 g	610 g	
Resolution	0.001 g	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	
Operating Modes	Specific Gravity, Counting, Percentage, Checkweighing						
Repeatability	0.003 g	0.01 g					
Linearity	0.003 g	±0.01 g			±0.02 g		
Sensitivity Drift	20 ppm/°C 50° F to 86° F (10° C to 30° C)						
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)						
Pan Size W x D	Ø 4.3 in (110 mm)						
Physical Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)						
Weight (approx.)	850 g						
Calibration Mass (default setting)	100 g	100 g	200 g	300 g	400 g	600 g	
Power	120VAC adapter (4 AA size dry-cell batteries - 70 hours operation)						
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
UNIT OF MEASURE	Decimal Ounce	4.233 x 0.0001 oz	4.233 x 0.001 oz	7.408 x 0.001 oz	10.935 x 0.001 oz	14.462 x 0.001 oz	21.517 x 0.001 oz
	Decimal Pound	N/A	N/A	N/A	N/A	0.9039 x 0.0001 lb	1.3448 x 0.0001 lb
	Troy Ounce	3.858 x 0.0001 ozt	3.858 x 0.001 ozt	6.752 x 0.001 ozt	9.967 x 0.001 ozt	13.182 x 0.001 ozt	19.612 x 0.001 ozt
	Pennyweight	77.16 x 0.001 dwt	77.16 x 0.01 dwt	135.03 x 0.01 dwt	199.33 x 0.01 dwt	263.64 x 0.01 dwt	392.24 x 0.01 dwt
	Carat	600.00 x 0.005 ct	600.00 x 0.05 ct	1,050.00 x 0.05 ct	1,550.00 x 0.05 ct	2,050.0 x 0.05 ct	3,050.0 x 0.05 ct
	Momme	N/A	32.000 x 0.005 mom	56.000 x 0.005 mom	82.665 x 0.005 mom	109.335 x 0.005 mom	162.665 x 0.05 mom
	Grain Unit	1,851.8 x 0.2 GN	1,851.8 x 0.2 GN	3,240.8 x 0.2 GN	4,784.0 x 0.2 GN	6,327.2 x 0.2 GN	9,413.8 x 0.2 GN
	Tael (HK General)	N/A	3.1745 x 0.0005 TL	5.5555 x 0.0005 TL	8.2010 x 0.0005 TL	10.8465 x 0.0005 TL	16.1380 x 0.0005 TL
	Tola	N/A	10.288 x 0.001 to	18.004 x 0.001 to	26.578 x 0.001 to	35.151 x 0.001 to	52.299 x 0.001 to

<sup>^</sup>Weighing Chamber

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RICELAKE

## Specifications

	EJ-1500	EJ-2000	EJ-3000	EJ-4100	EJ-6100	
Part#	112415	112416	112417	112418	112419	
List Price	\$275.00	\$330.00	\$400.00	\$460.00	\$515.00	
Capacity	1,500 g	2,100 g	3,100 g	4,100 g	6100 g	
Resolution	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g	
Operating Modes	Specific Gravity, Counting, Percentage, Checkweighing					
Repeatability	0.1 g					
Linearity	±0.1 g		±0.2 g			
Sensitivity Drift	20 ppm/°C 50° F to 86° F (10° C to 30° C)					
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)					
Pan Size W x D	5 x 5.5 in (127 x 140 mm)					
Physical Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)					
Weight (approx.)	1,100 g					
Calibration Mass (default setting)	1,500 g	2,000 g	3,000 g	4,000 g	6,000 g	
Power	120VAC adapter (4 AA size dry-cell batteries-70 hours operation)					
Warranty	Five-year Limited Warranty					
Return Policy	A&D Weighing Standard Policy - restock fee may apply					
UNIT OF MEASURE	Decimal Ounce	52.91 x 0.01 oz	74.08 x 0.01 oz	109.35 x 0.01 oz	144.62 x 0.01 oz	215.17 x 0.01 oz
	Decimal Pound	3.307 x 0.001 lb	4.630 x 0.001 lb	6.834 x 0.001 lb	9.039 x 0.001 lb	13.4488 x 0.001 lb
	Troy Ounce	48.23 x 0.01 ozt	67.52 x 0.01 ozt	99.67 x 0.01 ozt	131.82 x 0.01 ozt	196.12 x 0.01 ozt
	Pennyweight	964.5 x 0.1 dwt	1,350.3 x 0.1 dwt	1,993.3 x 0.1 dwt	2,636.4 x 0.1 dwt	3,922.4 x 0.1 dwt
	Carat	-	-	-	-	-
	Momme	4,000.00 x 0.05 mom	560.00 x 0.05 mom	826.65 x 0.05 mom	1,093.35 x 0.05 mom	1,626.65 x 0.05 mom
	Grain Unit	23,148 x 2 GN	32,408 x 2 GN	47,840 x 2 GN	63,272 x 2 GN	94,138 x 2 GN
	Tael (HK General) tola	39.685 x 0.005TL 128.6 x 0.01 to	55.555 x 0.005TL 180.04 x 0.01 to	82.01 x 0.005TL 265.78 x 0.01 to	108.465 x 0.005TL 351.51 x 0.01 to	161.380 x 0.005TL 522.99 x 0.01 to

## Part Number/Price

Part#	Model #	Description	Price
163274	EJ-123	120 g x 0.001 g	\$530.00
112410	EJ-120	120 g x 0.01 g	\$280.00
112411	EJ-200	210 g x 0.01 g	\$340.00
112412	EJ-300	310 g x 0.01 g	\$400.00
112413	EJ-410	410 g x 0.01 g	\$435.00
112414	EJ-610	610 g x 0.01 g	\$575.00
112415	EJ-1500	1,500 g x 0.1 g	\$275.00
112416	EJ-2000	2,100 g x 0.1 g	\$330.00
112417	EJ-3000	3,100 g x 0.1 g	\$400.00
112418	EJ-4100	4,100 g x 0.1 g	\$460.00
112419	EJ-6100	6,100 g x 0.1 g	\$515.00

## Options/Accessories

Part#	A&D Model #	Description	Price
112426	EJ-02	USB interface with cable	\$65.00
112427	EJ-03	RS-232 interface with cable	\$65.00
112428	EJ-07	Underhook for EJ-3000, EJ-4100 and EJ-6100	\$65.00
112429	EJ-08	Underhook for EJ-1500 and EJ-2000	\$65.00
112430	EJ-11	Breeze break	\$75.00
112431	EJ-12	Carrying case	\$43.00
112432	EJ-13	Density determination kit	\$53.00
97766	TB:662	AC adapter, 120V	\$43.00
97767	TB:164	AC adapter, 220V	\$55.00
151247	AD-1688	Data logger	\$304.00

**EK-EP Series**

Intrinsically Safe Compact Balances

Capacity: 300g to 12kg Readability: 0.01 g to 1g



EK-300EP



EK-3000EP

**Standard Features**

- LCD display
- FM approved (Class I, division 1, groups C and D)
- 200 hours of battery operation\*
- Auto power off
- Counting/Percentage/Specific Gravity modes
- Multiple Weighing Units: g, oz, lb, ozt, ct, mom, dwt, gr, N

## APPROVALS

**Specifications**

	EK-300EP	EK-3000EP	EK-12KEP	
Part#	177693	177694	177695	
List Price	\$1,550.00	\$1,550.00	\$1,550.00	
Capacity	300 g	3,000 g	12,000 g	
Resolution	0.01 g	0.1 g	1 g	
Operating Modes	Counting, Percentage, Specific Gravity			
Repeatability	0.01 g	0.1 g	1 g	
Linearity	±0.02 g	±0.2 g	±1 g	
Sensitivity Drift	±20 ppm/°C (10°C to 30°C/50°F to 86°F)			
Operating Temperature	32°F to 104°F (0°C to 40°C)			
Pan Size	Ø4.33 in (110 mm)	5.24 in x 6.69 in (133 mm x 170 mm)		
Physical Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)			
Weight (approx.)	2.4 lb (1.1 kg)	3.5 lb x (1.5 kg)		
Calibration Mass (default setting)	300 g	3,000 g	10 kg	
Power	Four AA batteries*			
Warranty	Two-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			
UNIT OF MEASURE	Decimal Ounce	10.580 x 0.005 oz	105.80 x 0.05 oz	423.2 x 0.2 oz
	Decimal Pound	0.6615 x 0.0005 lb	6.615 x 0.005 lb	26.46 x 0.02 lb
	Troy Ounce	9.645 x 0.005 ozt	96.45 x 0.05 ozt	385.8 x 0.2 ozt
	Pennyweight	192.9 x 0.1 dwt	1929 x 1 dwt	7715 x 5 dwt
	Carat	1500 x 0.5 ct	–	–
	Momme	80.00 x 0.05 mom	800 x 0.5 mom	3,200 x 2 mom
	Grain Unit	4,630 x 2 GN	–	–
	Newtons	2.942 x 0.0001 N	29.42 x 0.001 N	117.68 x 0.01 N

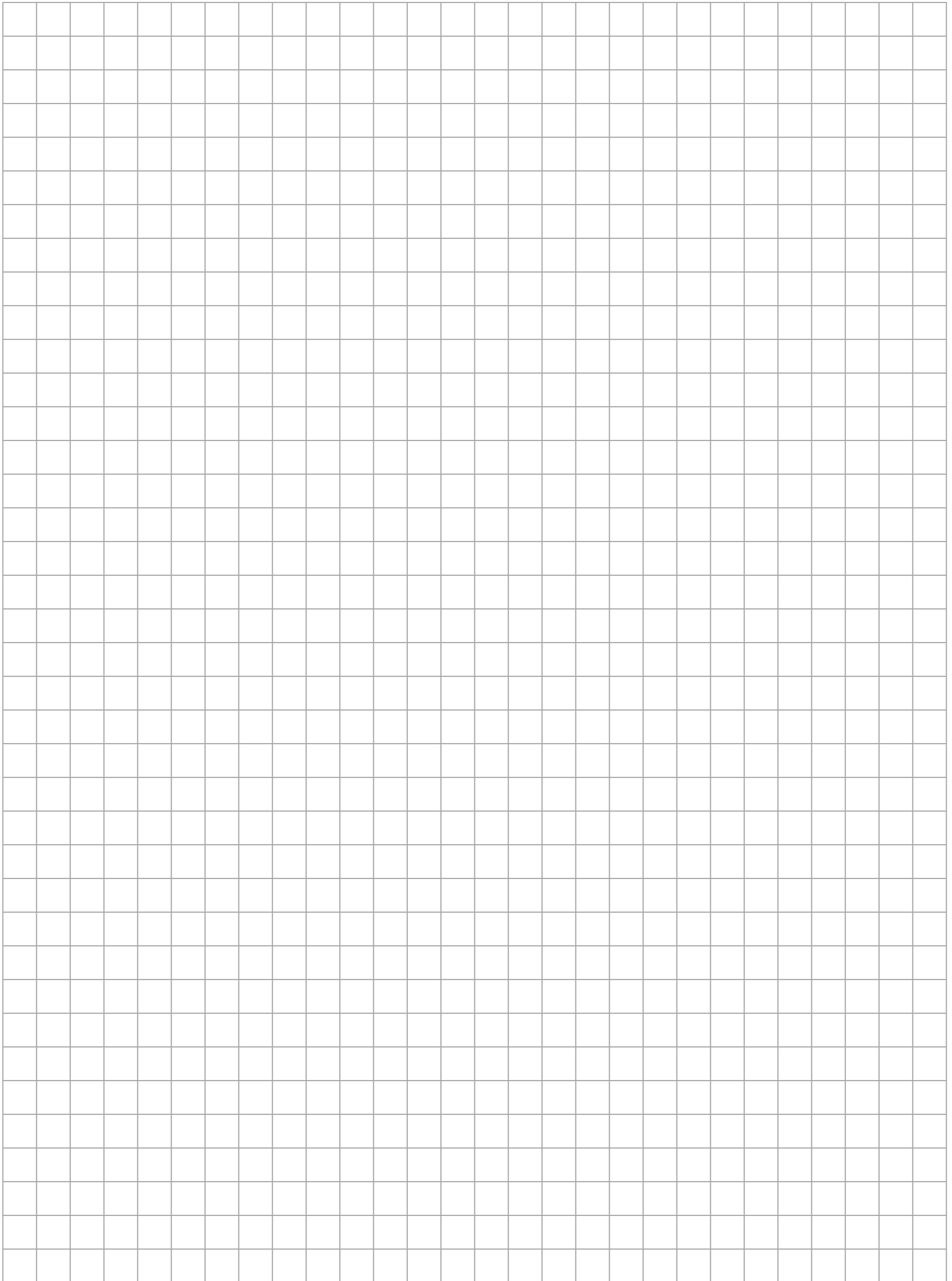
\*Battery life determined with backlight off with four AA batteries. The EK-EP must be used with any of the following to maintain FM integrity: Duracell AA alkaline MN 1500 LR6, Energizer AA E91 alkaline LR6 AM3, Panasonic AA alkaline LR6 (XJ). Do not mix type or new/used batteries.

**Part Number/Price**

Part#	Model#	Description	Price
177693	EK-300EP	300 g x 0.01 g	\$1,550.00
177694	EK-3000EP	3,000 g x 0.1 g	\$1,550.00
177695	EK-12KEP	12 kg x 1 g	\$1,550.00

**Options/Accessories**

Part#	A&D Model#	Description	Price
177696	EJ-12	Carrying case	\$65.00





**Standard Features**

- Backlit weight display
- Remote zeroing
- Easy to install NiCAD battery option
- 9 weighing modes
- RS-232C bidirectional interface

APPROVALS



**Specifications**

	EK-120i	EK-200i	EK-300i	EK-410i	EK-610i	EK-600i	EK-1200i
Part#	97747	97748	97749	97750	97751	-	-
List Price	\$520.00	\$550.00	\$575.00	\$645.00	\$750.00	-	-
<b>NTEP</b> Part#	-	-	-	-	-	97752	97753
<b>NTEP</b> List Price	-	-	-	-	-	\$520.00	\$540.00
Approvals						NTEP CC 04-019	
Capacity	120 g	200 g	300 g	400 g	600 g	600 g	1,200 g
Resolution	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g
Operating Modes	Counting, Percentage						
Repeatability	0.01 g					0.1 g	
Linearity	±0.01 g		±0.02 g			±0.1 g	
Sensitivity Drift	20 ppm/°C 50° F to 86° F (10° C to 30° C)						
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)						
Pan Size W x D	Ø 4.3 in (110 mm)					5.2 in x 6.7 in (133 x 170 mm)	
Physical Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)						
Weight (approx.)	2.4 lb (1.1 kg)					3.5 lb (1.5 kg)	
Calibration Mass (default setting)	120 g	200 g	300 g	400 g	600 g	600 g	1,200 g
Power	120VAC adapter (Optional Ni-MH battery pack)						
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
<b>UNIT OF MEASURE</b>	Decimal Ounce	4.2330 x 0.0005 oz	7.0550 x 0.0005 oz	10.5820 x 0.0005 oz	14.110 x 0.001 oz	21.164 x 0.001 oz	42.330 x 0.005 oz
	Decimal Pound	-	-	-	0.8818 x 0.0001 lb	1.3228 x 0.0001 lb	2.6455 x 0.0005 lb
	Troy Ounce	3.8580 x 0.0005 ozt	6.4300 x 0.0005 ozt	9.6450 x 0.0005 ozt	12.860 x 0.001 ozt	19.290 x 0.001 ozt	38.580 x 0.005 ozt
	Pennyweight	77.16 x 0.01 dwt	128.60 x 0.01 dwt	192.90 x 0.01 dwt	257.21 x 0.01 dwt	385.81 x 0.01 dwt	771.6 x 0.1 dwt
	Carat	600.00 x 0.05 ct	1000.00 x 0.05 ct	1500.00 x 0.05 ct	2000.0 x 0.1 ct	3000.0 x 0.1 ct	6000.0 x 0.5 ct
	Momme	32.000 x 0.005 mom	53.335 x 0.005 mom	80.000 x 0.005 mom	106.665 x 0.005 mom	160.000 x 0.005 mom	320.00 x 0.05 mom
	Grain Unit	1,851.8 x 0.2 GN	3,086.4 x 0.2 GN	4,629.8 x 0.2 GN	6,173.0 x 0.2 GN	9,259.4 x 0.2 GN	18,518 x 2 GN
	Tael (HK General)	3.1745 x 0.0005 TL	5.2910 x 0.0005 TL	7.9365 x 0.0005 TL	10.5820 x 0.0005 TL	15.8735 x 0.0005 TL	31.745 x 0.005 TL

## Specifications

	EK-2000i	EK-3000i	EK-4100i	EK-6100i	EK-6000i	EK-12Ki	
Part#	97754	97755	97756	97757	—	—	
List Price	\$565.00	\$605.00	\$725.00	\$885.00	—	—	
<b>NTEP</b>	Part#	—	—	—	97758	97759	
	List Price	—	—	—	\$565.00	\$730.00	
Capacity	2,000 g	3,000 g	4,000 g	6,000 g	6,000 g	12,000 g	
Resolution	0.1 g	0.1 g	0.1 g	0.1 g	1 g	1 g	
Operating Modes	Counting, Percentage						
Repeatability	0.1 g				1 g		
Linearity	±0.1 g	±0.2 g			±1 g		
Sensitivity Drift	20 ppm/°C 50°F to 86°F (10°C to 30°C)						
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)						
Pan Size W x D	5.2 x 6.7 in (133 x 170 mm)						
Physical Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)						
Weight (approx.)	3.5 lb (1.5 kg)						
Calibration Mass (default setting)	2,000 g	3,000 g	4,000 g	6,000 g		12 kg	
Power	120VAC adapter (Optional Ni-MH battery pack)						
Approvals	-				NTEP CC 04-019		
Warranty	Five-year Limited Warranty						
Return Policy	A&D Weighing Standard Policy - restock fee may apply						
<b>UNIT OF MEASURE</b>	Decimal Ounce	70.550 x 0.005 oz	105.820 x 0.005 oz	141.10 x 0.01 oz	211.64 x 0.01 oz	211.65 x 0.05 oz	423.30 x 0.05 oz
	Decimal Pound	4.4090 x 0.0005 lb	6.6140 x 0.0005 lb	8.818 x 0.001 lb	13.228 x 0.001 lb	13.230 x 0.005 lb	26.455 x 0.005 lb
	Troy Ounce	64.300 x 0.005 ozt	96.450 x 0.005 ozt	128.60 x 0.01 ozt	192.90 x 0.01 ozt	192.90 x 0.05 ozt	385.80 x 0.05 ozt
	Pennyweight	1,286.0 x 0.1 dwt	1,929.0 x 0.1 dwt	2,572.1 x 0.1 dwt	3,858.1 x 0.1 dwt	3,858 x 1 dwt	7,716 x 1 dwt
	Carat	10,000.0 x 0.5 ct	15,000.0 x 0.5 ct	20,000 x 1 ct	30,000 x 1 ct	-	-
	Momme	533.35 x 0.05 mom	800.00 x 0.05 mom	1,066.65 x 0.05 mom	1,600.00 x 0.05 mom	1,600.0 x 0.5 mom	3,200.0 x 0.5 mom
	Grain Unit	30,864 x 2 GN	46,298 x 2 GN	61,730 x 2 GN	92,594 x 2 GN	-	-
	Tael (HK General)	52.910 x 0.005 TL	79.365 x 0.005 TL	105.820 x 0.005 TL	158.735 x 0.005 TL	158.75 x 0.05 TL	317.45 x 0.05 TL

## Part Number/Price

Part #	Model #	Description	Price
97747	EK-120i	120 g x 0.01 g	\$520.00
97748	EK-200i	200 g x 0.01 g	\$550.00
97749	EK-300i	300 g x 0.01 g	\$575.00
97750	EK-410i	400 g x 0.01 g	\$645.00
97751	EK-610i	600 g x 0.01 g	\$750.00
97752	EK-600i (NTEP Certified)	600 g x 0.1 g	\$520.00
97753	EK-1200i (NTEP Certified)	1,200 g x 0.1 g	\$540.00
97754	EK-2000i	2,000 g x 0.1 g	\$565.00
97755	EK-3000i	3,000 g x 0.1 g	\$605.00
97756	EK-4100i	4,000 g x 0.1 g	\$725.00
97757	EK-6100i	6,000 g x 0.1 g	\$885.00
97758	EK-6000i (NTEP Certified)	6,000 g x 1 g	\$565.00
97759	EK-12Ki (NTEP Certified)	12,000 g x 1 g	\$730.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	\$160.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$52.00
97762	EKW-09i	NiCad battery pack	\$209.00
97764	AX:3005824-5S	Dust cover	\$13.00
97605	AD-100-2	Anti-theft device	\$73.00
97766	TB:662	AC adapter (120V)	\$43.00
97767	TB:164	AC adapter (240V)	\$55.00
151247	AD-1688	Data logger	\$304.00



EW-1500i square pan



EW-1500i round pan

### Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCad battery option
- RS-232C bidirectional interface
- Counting/Percentage/Comparator modes
- Triple range

### APPROVALS



### Specifications

	EW-150i			EW-1500i			EW-12Ki		
Part#	97768			—			—		
List Price	\$425.00			—			—		
<b>NTEP</b> Part#	—			97769			97771		
<b>NTEP</b> List Price	—			\$425.00			\$425.00		
Capacity	30g	60g	150g	300g	600g	1,500g	3,000g	6,000g	12,000g
Resolution	0.01g	0.02g	0.05g	0.1g	0.2g	0.5g	1g	2g	5g
Operating Mode	Counting, Percentage								
Repeatability	0.01g	0.02g	0.05g	0.1g	0.2g	0.5g	1g	2g	5g
Linearity	±0.01g	±0.02g	±0.05g	±0.1g	±0.2g	±0.5g	±1g	±2g	±5g
Sensitivity Drift	20 ppm/°C (10°C to 30°C/50°F to 86°F)								
Operating temperature	14°F to 104°F (-10°C to 40°C) less than 85% R.H. (non-condensing)								
Pan Size	Ø 4.3 in (110 mm)			5.2 x 6.7 in (133 x 170 mm)					
Dimensions	(W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm)								
Weight	2.4 lb (1.1 kg)			3.5 lb (1.5 kg)					
Calibration Mass (default setting)	150g			1,500g			12kg		
Power	AC adapter or Ni-MH battery pack (option)								
Approvals	-			NTEP CC 04-019			NTEP CC 04-019		
Warranty	Five-year Limited Warranty								
Return Policy	A&D Weighing Standard Policy - restock fee may apply								
<b>UNIT OF MEASURE</b>	1.0580 x 0.0005 oz	2.116 x 0.001 oz	5.292 x 0.002 oz	10.580 x 0.005 oz	21.16 x 0.01 oz	52.92 x 0.02 oz	105.80 x 0.05 oz	211.6 x 0.1 oz	423.2 x 0.2 oz
Decimal Pound	-	-	-	0.6615 x 0.0005 lb	1.323 x 0.001 lb	3.306 x 0.002 lb	6.615 x 0.005 lb	13.23 x 0.01 lb	26.46 x 0.02 lb
Troy Ounce	0.9645 x 0.0005 ozt	1.929 x 0.001 ozt	4.822 x 0.002 ozt	9.645 x 0.005 ozt	19.29 x 0.01 ozt	48.22 x 0.02 ozt	96.45 x 0.05 ozt	192.9 x 0.1 ozt	385.8 x 0.2 ozt
Pennyweight	19.29 x 0.01 dwt	38.58 x 0.02 dwt	96.45 x 0.05 dwt	192.9 x 0.1 dwt	385.8 x 0.2 dwt	964.5 x 0.5 dwt	1,929 x 1 dwt	3,858 x 2 dwt	7,715 x 5 dwt
Carat	150.00 x 0.05 ct	300.0 x 0.1 ct	750.0 x 0.2 ct	1,500.0 x 0.5 ct	3000 x 1 ct	7500 x 2 ct	-	-	-
Momme	8.000 x 0.005 mom	16.00 x 0.01 mom	40.00 x 0.02 mom	80.00 x 0.05 mom	160.0 x 0.1 mom	400 x 0.2 mom	800 x 0.5 mom	1,600 x 1 mom	3,200 x 2 mom
Grain Unit	463.0 x 0.2 GN	926.0 x 0.5 GN	2,315 x 1 GN	4,630 x 2 GN	9,260 x 5 GN	23,150 x 10 GN	-	-	-
Tael (HK General)	0.7935 x 0.0005 TL	1.587 x 0.001 TL	3.968 x 0.002 TL	7.935 x 0.005 TL	15.87 x 0.01 TL	39.68 x 0.02 TL	79.35 x 0.05 TL	158.7 x 0.1 TL	317.4 x 0.2 TL



### Part Number/Price

Part #	Model #	Description	Price
97768	EW-150i	30 g x 0.01 g/60 g x 0.02 g/150 g x 0.05 g	\$425.00
97769 (NTEP)	EW-1500i	300 g x 0.1 g/600 g x 0.2 g/1,500 g x 0.5 g	\$425.00
97771 (NTEP)	EW-12Ki	3,000 g x 1 g/6,000 x 2 g/12,000 g x 5 g	\$425.00

### Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	\$160.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	\$52.00
97762	EKW-09i	NiCad battery pack	\$209.00
97764	AX:3005824-5S	Protective dust cover (not in use)	\$13.00
97605	AD-100-2	Anti-theft device	\$73.00
97766	TB:662	AC adapter (120V)	\$43.00
97767	TB:164	AC adapter (240V)	\$55.00
151247	AD-1688	Data logger	\$304.00



### Standard Features

- Internal calibration
- Auto environmental compensation
- IP65/NEMA Type 4
- RS-232C bidirectional interface
- Data memory function
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Underhook weighing

### Specifications

	GX-8K	GX-8K2	GX-10K	GX-12K	
Part#	97776	97775	97777	97778	
List Price	\$3,570.00	\$3,085.00	\$3,800.00	\$3,240.00	
Capacity	8.1 kg	8.1 kg/2.1 kg	10.1 kg	12 kg	
Resolution	0.01 g	0.1 g / 0.01 g	0.01 g	0.1 g	
Operating Modes	Counting, Percentage				
Repeatability	0.01 g	0.05 g/0.01 g	0.01 g	0.1 g	
Linearity	±0.02 g	±0.1 g/±0.02 g	±0.03 g	±0.2 g	
Sensitivity drift	±2 ppm/°C	±3 ppm/°C	±2 ppm/°C	±3 ppm/°C	
Stabilization time	Approx 1.5 seconds				
Operating temperature	41° F to 104° F (-5° C to 40° C)				
Pan Size	10.62 x 8.26 in (270 x 210 mm)				
Dimensions	(W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm)				
Weight	18.3 lb (8.3 kg)				
External Cal mass	2, 3, 4, 5, 6, 7, 8 kg		10 kg	5, 10 kg	
Power	120/240 V AC adapter				
Warranty	Five-year Limited Warranty				
Return Policy	A&D Weighing Standard Policy - restock fee may apply				
UNIT OF MEASURE	Decimal Ounces	285.7190 x 0.0005 oz	285.720 x 0.005/74.0755 x 0.0005 oz	370.4 x 0.0005 oz	423.290 x 0.0005 oz
	Troy Ounce	260.4210 x 0.0005 ozt	260.420 x 0.005/67.5165 x 0.0005 ozt	337.6 x 0.0005 ozt	385.810 x 0.0005 ozt
	Pennyweight	5,208.42 x 0.01 dwt	5,208.4 x 0.1/1350.33 x 0.01 dwt	6,751 x 0.01 dwt	7,716.2 x 0.1 dwt
	Carat	40,500.00 x 0.05 ct	40,500.0 x 0.5/10,500.00 x 0.05 ct	50,500 x 0.05 ct	60,000 x 0.5 ct
	Momme	2,160.000 x 0.005 mom	2,160.00 x 0.05/560.000 x 0.005 mom	2,800.000 x 0.005 mom	3,200.00 x 0.05 mom
	Grain	125,002.2 x 0.2 GN	125,002 x 2/32,408.0 x 0.2 GN	162,040 x 0.2 GN	185,188 x 2 GN
	Pound	17.85745 x 0.00005 lb	17.8575 x 0.0005/4.62970 x 0.00005 lb	23.15 x 0.00005 lb	26.4555 x 0.0005 lb
	Pound/Ounce	17 lb x 0.001 oz	17 lb x 0.001 oz	23 lb x 0.001 oz	26 lb x 0.01 oz

## Specifications

	GX-20K	GX-30K	GX-32K	
Part#	97779	97780	97781	
List Price	\$3,495.00	\$4,045.00	\$3,140.00	
Capacity	20 kg	30 kg	30 kg/6.1 kg	
Resolution	0.1 g	0.1 g	1/0.1 g	
Operating Modes	Counting, Percentage			
Repeatability	0.1 g	0.1 g	0.5 g / 0.1 g	
Linearity	±0.2 g	±0.2 g	±1 g / ±0.2 g	
Sensitivity drift (-10 to 30° C)	±3 ppm/° C		±5ppm/° C	
Stabilization Time	Approx 1.5 seconds			
Operating Temperature	41°F - 104°F (-5°C - 40°C)			
Pan Size	10.62 x 8.26 in (270 x 210 mm)			
Dimensions	(W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm)			
Weight	18.3 lb (8.3 kg)			
External Cal Mass	10, 20 kg	20, 30 kg	20, 30 kg	
Power	120/240VAC adapter			
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			
UNIT OF MEASURE	Decimal Ounces	740.755 x 0.005 oz	1,093.495 x 0.005 oz	1,093.50 x 0.05/ 215.170 x 0.005 oz
	Troy Ounce	675.165 x 0.005 ozt	996.675 x 0.005 ozt	996.65 x 0.05/ 196.120 x 0.005 ozt
	Pennyweight	13,503.3 x 0.1 dwt	19,933.5 x 0.1 dwt	19,933 x 1/ 3,922.4 x 0.1 dwt
	Carat	105,000.0 x 0.5 ct	15,5000.0 x 0.5 ct	155,000 x 5/ 30,500.0 x 0.5 ct
	Momme	5,600.00 x 0.05 mom	8,266.65 x 0.05 mom	8,266.5 x 0.5/ 1,626.65 x 0.05 mom
	Grain	324,080 x 2 GN	478,404 x 2 GN	-
	Pound	46.2970 x 0.0005 lb	68.3435 x 0.0005 lb	68.345 x 0.005/ 13.4480 x 0.0005 lb
	Pound/Ounce	46 lb x 0.01 oz	68 lb x 0.01 oz	68 lb x 0.1 oz/13 lb x 0.01 oz

## Part Number/Price

Part #	Model #	Description	Price
97776	GX-8K	8.1 kg x 0.01 g	\$3,570.00
97775	GX-8K2	8.1/2.1 kg x 0.1/0.01 g	\$3,085.00
97777	GX-10K	10.0 kg x 0.01 g	\$3,800.00
97778	GX-12K	12 kg x 0.1 g	\$3,240.00
97779	GX-20K	20 kg x 0.1 g	\$3,495.00
97780	GX-30K	30 kg x 0.1 g	\$4,045.00
97781	GX-32K	30/6.1 kg x 1/0.1 g	\$3,140.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97782	GX-04K*	Comparator/output and RS-232C/20 mA interface	\$365.00
97783	GX-06K*	Analog output/20 mA interface	\$840.00
97784	GX-07K**	Waterproof cable for standard RS-232C	\$310.00
102899	GXK-12	Animal weighing pan	\$835.00
102898	GXK-31	Draft shield	\$115.00
97605	AD-100-2	Anti-theft device	\$73.00
97785	AX-073007197A	Protective in-use cover	\$20.00
97649	TB:648	AC adapter (120V/220V)	\$43.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Dot matrix statistical printer, includes cable	\$891.00

\*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).



**Standard Features**

- IP65/NEMA Type 4
- RS-232C bidirectional interface
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Interval time setting
- Underhook weighing

**Specifications**

	GF-8K2	GF-8K	GF-10K	GF-12K	
Part#	97792	97793	97794	97795	
List Price	\$2,860.00	\$3,375.00	\$3,600.00	\$3,035.00	
Capacity	2.1 kg/8.1 kg	8.1 kg	10.1 kg	12 kg	
Resolution	0.01 g/0.1 g	0.01 g	0.01 g	0.1 g	
Operating Modes	Counting, Percentage				
Linearity	±0.1 g/±0.02 g	±0.02 g	±0.03 g	±0.2 g	
Stabilization Time	Approx. 1.5 seconds (typical in FAST mode)				
Repeatability	0.05 g/0.01 g	0.01 g	0.01 g	0.1 g	
Sensitivity Drift (10° C to 30° C)	±3 ppm/° C	±2 ppm/° C	±2 ppm/° C	±3 ppm/° C	
Display Refresh	5 times per second/10 times per second				
Operating Temperature	41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation)				
Pan Size (W x D)	Stainless steel 10.62 x 8.26 in (270 x 210 mm)				
Dimensions	(W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm)				
Weight	18.3 lb (8.3 kg)				
External Cal. Mass	2, 3, 4, 5, 6, 7, 8 kg		10 kg	5, 10 kg	
Power	120/240V AC adapter				
Warranty	Five-year Limited Warranty				
Return Policy	A&D Weighing Standard Policy - restock fee may apply				
UNIT OF MEASURE	Decimal Ounces	285.720 x 0.005/74.0755 x 0.0005 oz	285.7190 x 0.0005 oz	370.4 x 0.0005 oz	423.290 x 0.005 oz
	Troy Ounce	260.420 x 0.005/67.5165 x 0.0005 ozt	260.4210 x 0.0005 ozt	337.6 x 0.0005 ozt	385.810 x 0.005 ozt
	Pennyweight	5,208.4 x 0.1/1,350.33 x 0.01 dwt	5,208.42 x 0.01 dwt	6,751 x 0.01 dwt	7,716.2 x 0.1 dwt
	Carat	40,500.0 x 0.5/10,500.00 x 0.05 ct	40,500.00 x 0.05 ct	50,500 x 0.05 ct	60,000 x 0.5 ct
	Momme	2,160.00 x 0.05/560.000 x 0.005 mom	2,160.000 x 0.005 mom	2,800.000 x 0.005 mom	3,200.00 x 0.05 mom
	Grain	125,002 x 2/32,408.0 x 0.2 GN	125,002.2 x 0.2 GN	162,040 x 0.2 GN	185,188 x 2 GN
	Pound	17.8575 x 0.0005/4.62970 x 0.00005 lb	17.85745 x 0.00005 lb	23.15 x 0.00005 lb	26.4555 x 0.0005 lb
	Pound/Ounce	17 lb x 0.01 oz/4 lb x 0.001 oz	17 lb x 0.001 oz	23 lb x 0.001 oz	26 lb x 0.01 oz

## Specifications

	GF-20K	GF-30K	GF-32K	
Part #	97796	97797	97798	
List Price	\$3,240.00	\$3,800.00	\$2,880.00	
Capacity	21 kg	31 kg	6.1/31 kg	
Resolution	0.1 g	0.1 g	0.1/1 g	
Operating Modes	Counting, Percentage			
Linearity	±0.2 g		±1 g/0.2 g	
Stabilization time	Approx. 1.5 seconds (typical in FAST mode)			
Repeatability	0.1 g		0.5 g/0.1 g	
Sensitivity Drift (10° C to 30° C)	±3 ppm/° C		±5 ppm/° C	
Display refresh	5 times per second/10 times per second			
Operating Temperature	41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation)			
Pan Size (W x D)	Stainless steel 10.62 x 8.26 in (270 x 210 mm)			
Dimensions	(W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm)			
Weight	18.3 lb (8.3 kg)			
External Cal. Mass	10, 20 kg	20, 30 kg		
Power	120/240VAC adapter			
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			
UNIT OF MEASURE	Decimal Ounces	740.755 x 0.005 oz	1,093.495 x 0.005 oz	1,093.50 x 0.05/215.170 x 0.005 oz
	Troy Ounce	675.165 x 0.005 ozt	996.675 x 0.005 ozt	996.65 x 0.05/196.120 x 0.005 ozt
	Pennyweight	13,503.3 x 0.1 dwt	19,933.5 x 0.1 dwt	19,933 x 1/3,922.4 x 0.1 dwt
	Carat	105,000.0 x 0.5 ct	155,000.0 x 0.5 ct	155,000 x 5/30,500.0 x 0.5 ct
	Momme	5,600.00 x 0.05 mom	8,266.65 x 0.05 mom	8,266.5 x 0.5/1,626.65 x 0.05 mom
	Grain	324,080 x 2 GN	478,404 x 2 GN	N/A
	Pound	46.2970 x 0.0005 lb	68.3435 x 0.0005 lb	68.345 x 0.005/13.4480 x 0.0005 lb
	Pound/Ounce	46 lb x 0.01 oz	68 lb x 0.01 oz	68 lb x 0.1 oz/17 lb x 0.01 oz

## Part Number/Price

Part #	Model #	Description	Price
97792	GF-8K2	2.1 kg/8.1 kg x 0.01 g/0.1 g	\$2,860.00
97793	GF-8K	8.1 kg x 0.01 g	\$3,375.00
97794	GF-10K	10.1 kg x 0.01 g	\$3,600.00
97795	GF-12K	12 kg x 0.1 g	\$3,035.00
97796	GF-20K	21 kg x 0.1 g	\$3,240.00
97797	GF-30K	31 kg x 0.1 g	\$3,800.00
97798	GF-32K	31 kg/6.1 kg x 1 g/0.1 g	\$2,880.00

## Options/Accessories

Part #	A&D Model #	Description	Price
97782	GX-04K*	Comparator/output and RS-232C/20 mA interface	\$365.00
97783	GX-06K*	Analog output/20 mA interface	\$840.00
97784	GX-07K**	Waterproof cable for standard RS-232C	\$310.00
102899	GXK-12	Animal weighing pan	\$835.00
102898	GXK-31	Draft shield	\$115.00
97605	AD-100-2	Anti-theft device	\$73.00
97785	AX:073007197A	Protective in-use cover	\$20.00
97649	TB-648	AC adapter (120V/220V)	\$43.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Impact dot matrix statistical printer, includes cable	\$891.00

\*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).



### Standard Features

- IP65/NEMA Type 4
- Internal calibration weight with manual, interval or auto-environmental compensation
- RS-232C bidirectional interface
- Data-collection software
- Auto re-zero function
- Multiple weighing modes
- 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

	GP-12K	GP-20K	GP-30K	GP-30KS*	GP-32K	GP-32KS*	GP-40K	
Part#	97802	97803	97805	97810	97804	102901	97806	
List Price	\$3,500.00	\$3,840.00	\$4,580.00	\$4,825.00	\$3,115.00	\$3,480.00	\$4,150.00	
Capacity	12 kg	21 kg	31 kg		31 kg/6 kg		41 kg	
Resolution	0.1 g	0.1 g	0.1 g		1/0.1 g		0.5 g	
Operating Modes	Counting, Percentage							
Repeatability	0.1 g	0.1 g	0.1 g	-	0.5 g/0.1 g	-	0.5 g	
Linearity	±0.2 g	±0.2 g	±0.2 g	-	±1 / ±2 g	-	±1 g	
Sensitivity Drift (-10° C to +30° C)	±3 ppm/°C				±5 ppm/°C			
Stabilization Time	Approx. 1.5 seconds (typical in FAST mode)							
Operating Temperature	41°F to 104°F (5°C to 40°C) RH less than 85% (No condensation)							
Pan Size (W x D)	Stainless steel 15 x 13 in (384 x 344 mm)							
Dimensions	(W x D x H) 14.6 x 24.2 x 5.1 in 372 x 615 x 130 mm		(W x D x H) 13.5 x 17.4 x 5.5 in (344 x 442 x 139 mm)		(W x D x H) 14.6 x 24.2 x 5.1 in (372 x 615 x 130 mm)			
Height with Column	652 mm							
Weight	Approx 37.4 lb (17 kg)							
External Cal Mass	5 kg/10 kg	10 kg/20 kg	20 kg/30 kg				20/30/40 kg	
Warranty	Five-year Limited Warranty							
Return Policy	A&D Weighing Standard Policy - restock fee may apply							
UNIT OF MEASURE	Decimal Ounces	423.290 x 0.005 oz	740.755 x 0.005 oz	1,093.495 x 0.005 oz		1,093.50 x 0.05/215.170 x 0.005 oz		1,446.24 x 0.02 oz
	Troy Ounce	385.810 x 0.005 ozt	675.165 x 0.005 ozt	996.675 x 0.005 ozt		996.65 x 0.05/196.120 x 0.005 ozt		1,318.18 x 0.02 ozt
	Pennyweight	7,716.2 x 0.1 dwt	13,503.3 x 0.1 dwt	19,933.5 x 0.1 dwt		19,933 x 1/3922.4 x 0.1 dwt		26,363.5 x 0.5 dwt
	Carat	60,000 x 0.5 ct	105,000.0 x 0.5 ct	155000.0 x 0.5 ct		155,000 x 5/30,500.0 x 0.5 ct		205,000 x 5 ct
	Momme	3,200.00 x 0.05 mom	5,600.00 x 0.05 mom	8,266.65 x 0.05 mom		8,266.5 x 0.5/1,626.65 x 0.05 mom		10,933.4 x 0.2 mom
	Grain	185,188 x 2 GN	324,080 x 2 GN	478,404 x 2 GN		-		-
	Pound	26.4555 x 0.0005 lb	46.2970 x 0.0005 lb	68.3435 x 0.0005 lb		68.345 x 0.005/13.4480 x 0.0005 lb		90.390 x 0.002 lb
	Pound/Ounce	26 lb x 0.01 oz	46 lb x 0.01 oz	68 lb x 0.01 oz		68 lb x 1 oz/13 lb x 0.01 oz		90 lb x 0.1 oz

\*S designates remote indicator

## Specifications

	GP-60K	GP-60KS*	GP-61K	GP-61KS*	GP-100K	GP-100KS*	GP-102K	
Part#	97807	102902	102900	102903	97808	97811	97809	
List Price	\$5,100.00	\$5,350.00	\$5,870.00	\$5,690.00	\$5,500.00	\$5,825.00	\$4,940.00	
Capacity	61 kg		61 kg		100 kg	101 kg	101 kg/61 kg	
Resolution	1 g		0.1 g		1 g		10/1 g	
Operating Modes	Counting, Percentage							
Repeatability	0.7 g	-	0.2 g	-	1 g	-	(5/1) g	
Linearity	±1 g	-	±0.5 g	-	±2 g	-	±10 / ±2 g	
Sensitivity Drift (-10 to +30 ° C)	±6 ppm/° C						±10 ppm/° C	
Stabilization Time	Approx. 1.5 seconds (typical in FAST mode)							
Operating Temperature	41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation)							
Pan Size (W x D)	Stainless steel 15 x 13 in (384 x 344 mm)			-	Stainless steel 15 x 13 in (386 x 346 mm)			
Dimensions	(W x D x H) 14.6 x 24.2 x 5.1 in (372 x 615 x 130 mm)							
Height with Column	25.7 in (652 mm)							
Weight	Approx 37.4 lb (17 kg)				Approx 39.7 lb (18 kg)			
External Cal Mass	30/40/50/60 kg		20/30/40/50/60 kg		60/80/100 kg			
Warranty	Five-year Limited Warranty							
Return Policy	A&D Weighing Standard Policy - restock fee may apply							
UNIT OF MEASURE	Decimal Ounces	2,151.7 x 0.05 oz		2,151.7 x 0.005 oz		3,562.65 x 0.05 oz		3,562.5/2,151.7 x 0.5/0.05 oz
	Troy Ounce	1,961.2 x 0.05 ozt		1,961.2 x 0.005 ozt		3,247.25 x 0.05 ozt		3,247/1,961.2 x 0.5/0.05 ozt
	Pennyweight	39,224 x 1 dwt		39,224 x 0.1 dwt		-		-
	Carat	305,000 x 5 ct		305,000 x 0.5 ct		-		-
	Momme	16,266.5 x 0.5 mom		16,266.5 x 0.05 mom		26,933.5 x 0.5 mom		26,935/16,266.5 x 5/0.5 mom
	Pound	134.480 x 0.005 lb		134.480 x 0.0005 lb		222.665 x 0.005 lb		222.65/134.48 x 0.05/0.005 lb
	Pound/Ounce	134 lb x 0.1 oz		134 lb x 0.01 oz		222 lb x 1 oz		222 lb x 1 oz

\*S designates remote indicator

**Part Number/Price**

Part #	Model #	Description	Price
97802	GP-12K	12 kg x 0.1 g	\$3,500.00
97803	GP-20K	21 kg x 0.1 g	\$3,840.00
97805	GP-30K	31 kg x 0.1 g	\$4,580.00
97810	GP-30KS	31 kg x 0.1 g	\$4,825.00
97804	GP-32K	31 kg/6 kg x 1 g/0.1 g	\$3,115.00
102901	GP-32KS	31 kg/6 kg x 1 g/0.1 g	\$3,480.00
97806	GP-40K	41 kg x 0.5 g	\$4,150.00
97807	GP-60K	61 kg x 1 g	\$5,100.00
102902	GP-60KS	61 kg x 1 g	\$5,350.00
102900	GP-61K	61 kg x 0.1 g	\$5,870.00
102903	GP-61KS	61 kg x 0.1 g	\$5,690.00
97808	GP-100K	100 kg x 1 g	\$5,500.00
97811	GP-100KS	101 kg x 1 g	\$5,825.00
97809	GP-102K	101 kg/61 kg x 10 g/1 g	\$4,940.00

**Options/Accessories**

Part #	A&D Model #	Description	Price
97607	AD-1682	Rechargeable battery pack	\$678.00
97608	AD-8920	Universal remote display	\$270.00
97813	GP-04	Comparator output with buzzer	\$255.00
97814	GP-06	Analog output (replaces standard RS-232C)	\$835.00
97815	GP-07	GP extension cable (factory installed 120 day lead time)	\$312.00
97816	GP-20	Underhook GP-12 kg thru 40 kg	\$180.00
97817	GP-21	Underhook GP-60 kg thru 102 kg	\$180.00
97818	GP-22	AD-8121B printer support	\$160.00
97605	AD-100-2	Anti-theft device	\$73.00
97820	07:3004753	Protective in-use cover	\$18.00
97613	TB:136	AC adapter (120V) standard with unit	\$43.00
97614	TB:137	AC adapter (220V)	\$52.00
97609	AD-8922	Remote controller	\$635.00
102904	GP-12	Animal weighing pan	\$1,675.00
151247	AD-1688	Data logger	\$304.00
97612	SW:128	Foot switch	\$75.00
158785	AD-8121B	Dot matrix statistical printer	\$891.00



Capacity: 51 g-71 g Readability: 0.001 g-0.0001 g

## Standard Features

- Fast and uniform heating with halogen lamp and uniquely designed (secondary radiation assist) SRA filter
- WinCT® communication tools software
- Sodium tartrate dihydrate is provided as a stable moisture content for accuracy checks of the analyzer
- 5 measurement programs: standard, automatic, timer, manual and quick
- Vacuum fluorescent display (VFD)
- Glass window for heating check and easy cleaning
- Self-check function
- Quick reference card
- Standard bidirectional RS-232C
- GLP/ GMP/GCP/ISO compliant with time and date, ID, calibration data and check record outputs



## Specifications

	MS-70	MX-50	MF-50	ML-50
Part #	97821	97822	97823	112408
List Price	\$5,815.00	\$3,630.00	\$2,935.00	\$2,470.00
Capacity	71 g	51 g	51 g	51 g
Resolution	0.0001 g	0.001 g	0.002 g	0.005 g
Moisture Content Display	0.001%/0.01%/0.1%	0.01%/0.1%	0.05%/0.1%/1%	0.1%/1%
Moisture Content Accuracy Over 1 g	0.05%	0.10%	0.20%	0.50%
Over 5 g	0.01%	0.02%	0.05%	0.10%
Heating Technology	Halogen lamp (straight type, 400 Watt max, 5,000 hours)			
Drying Temperature	30° C to 200° C	50° C to 200° C (1° increment)		
Measurement Program Memories	20 sets		10 sets	5 sets
Data Memory	100		50	30
Measurement Programs	Standard/Automatic/Timer/Manual			
Measurement Modes	Wet base/Dry base/Solid content/Ratio			
Operating Temperature	40° F to 104° F (5° C to 40° C)			
Sample Pan Size	Ø 2.16 in (85 mm)			
Dimensions	(W x D x H) 8.46 x 12.6 x 6.8 in (215 x 320 x 173 mm)			
Weight	13 lb (5.9 kg)			
Power	120VAC			
Warranty	Five-year Limited Warranty			
Return Policy	A&D Weighing Standard Policy - restock fee may apply			

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

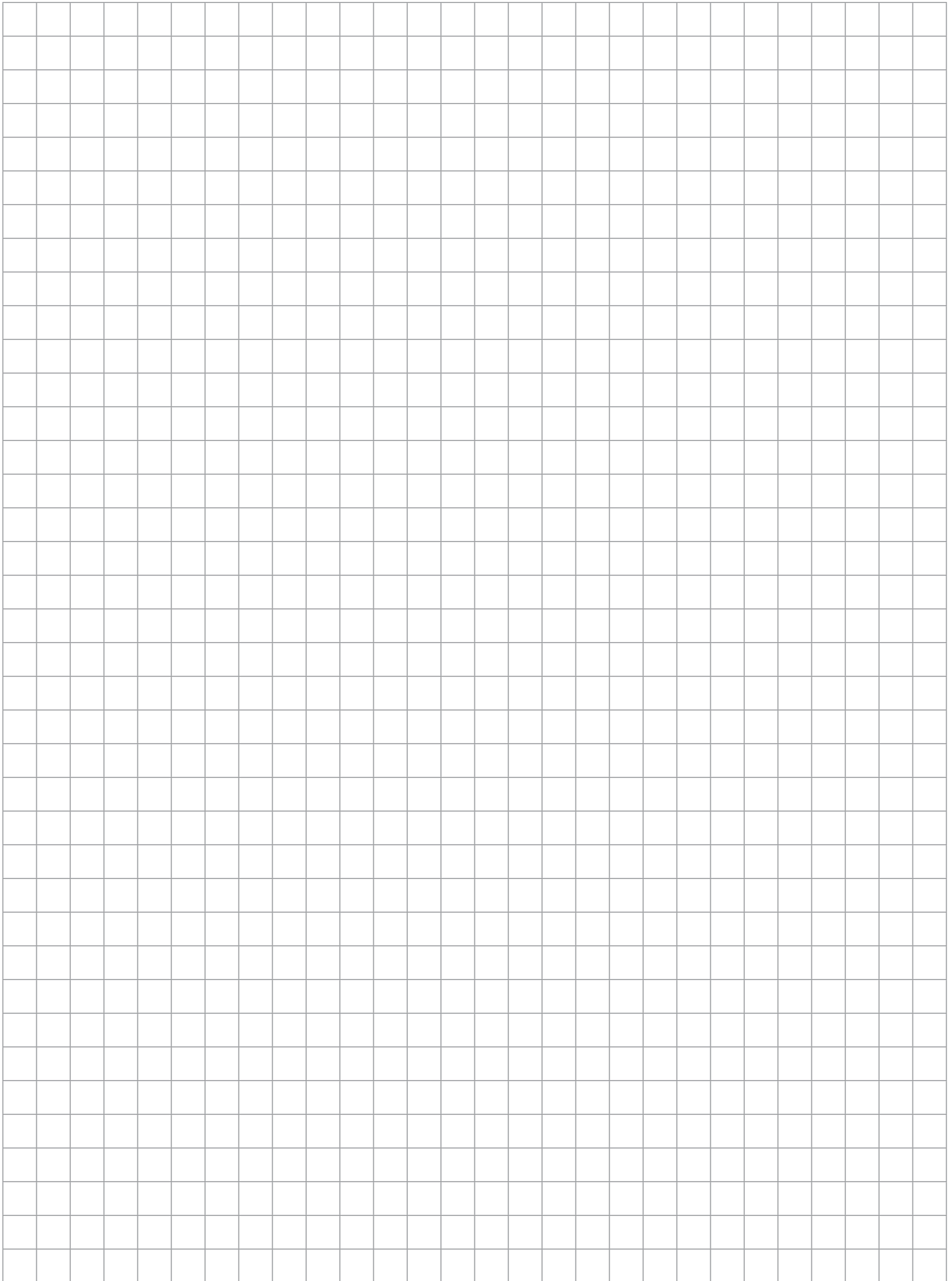
Moisture Analyzers

**Part Number/Price**

Part #	Model #	Description	Price
97821	MS-70	71 g x 0.0001 g	\$5,815.00
97822	MX-50	51 g x 0.001 g	\$3,630.00
97823	MF-50	51 g x 0.002 g	\$2,935.00
112408	ML-50	51 g x 0.005 g	\$2,470.00

**Options/Accessories**

Part #	A&D Model #	Description	Price
97824	AX-31	Sample pans (washable, 100 each)	\$95.00
97825	AX-32-2	Glass fiber sheets (100 each)	\$52.00
97826	AX-33	Sodium tartrate dehydrate test samples (30 x 12 g)	\$83.00
97827	AX-34	Halogen lamp (replacement)	\$63.00
97828	AX-35	Pan handles (2 each)	\$27.00
97829	AX-36	Tweezers (2 each)	\$17.00
97830	AX-37	Spoons (2 each)	\$21.00
97831	AX-38	Protective in-use covers (5 each)	\$42.00
97832	AX-39	Dust cover	\$17.00
97833	AX-42	WinCT® Moisture (standard for MS-70 and MX-50, option for MF-50)	\$237.00
97834	AD-1700-20G	Calibration mass (20 g)	\$150.00
97837	AX-43	Temperature calibrator (MS-70 and MX-50 only)	\$450.00
151247	AD-1688	Data logger	\$304.00
158785	AD-8121B	Dot matrix statistical printer, includes cable	\$891.00



**NEW**

OHAUS

**Pioneer® PX**

Analytical/Precision Balances

Capacity: 85 g-4,200 g Readability: 0.0001 g-0.1 g

BALANCES

**Standard Features**

- Easy-to-clean analytical draft shield (select models)
- 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
- Integral underweigh hook
- Standard security bracket
- Standard RS-232C
- Security menu lock
- Multiple application modes and units of measure
- Backlight display

APPROVALS

**Specifications**

	PX84/E^	PX124/E^	PX224/E^	PX163/E^	PX323/E^	PX523/E^
Part#	191850	191851	191852	191853	191854	191855
List Price	\$1,912.00	\$2,204.00	\$2,450.00	\$1,107.00	\$1,292.00	\$1,635.00
Capacity	82 g	120 g	220 g	160 g	320 g	520 g
Resolution	0.1 mg	0.1 mg	0.1 mg	0.001 g	0.001 g	0.001 g
Weighing Modes	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					
Repeatability (mg)	0.1			1		
Linearity (mg)	0.2			2		
Stabilization Time	Four seconds			Two seconds		
Operating Temperature	50°F to 86°F (10°C to 30°C)					
Pan Size	3.54 in (90 mm)			4.72 in (120 mm)		
Dimensions (W x D x H)	8.2 x 12.6 x 12.2 in (209 x 321 x 309 mm)					
Weight (Approx.)	10 lb (4.5 kg)					
Calibration Weight (g)	50/80	50/100	100/200	100/150	200/300	200/500
Power	120 VAC adapter (220-240 VAC adapter by special order), 50/60 Hz					
Warranty	Two-year Limited Warranty					
Return Policy	OHAUS Standard Policy - restock fee may apply					

^Weighing Chamber

www.ricelake.com | Phone: 800-472-6703

RICE LAKE

## Specifications

	PX1602/E	PX2202/E	PX3202/E	PX4202/E	PX2201/E	PX4201/E
Part#	191856	191857	191858	191859	191860	191861
List Price	\$1,066.00	\$1,169.00	\$1,415.00	\$1,594.00	\$990.00	\$1,148.00
Capacity	1,600 g	2,200 g	3,200 g	4,200 g	2,200 g	4,200 g
Resolution	0.01 g	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g
Weighing Modes	Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Tael, Tical, Tola, Baht, Mesghal, Newton, Custom Unit					
Operating Modes	Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing					
Repeatability (mg)	10				100	
Linearity (mg)	20				200	
Stabilization Time	One second					
Operating Temperature	50° F to 86° F (10° C to 30° C)					
Pan Size	7.1 in (180 mm)					
Dimensions (W x D x H)	8.2 x 12.6 x 3.9 in (209 x 321 x 98 mm)					
Weight (Approx.)	7.7 lb (3.5 kg)					
Calibration Weight (g)	1,000/1,500	1,000/2,000	2,000/3,000	2,000/4,000	1,000/2,000	2,000/4,000
Power	120 VAC adapter (220-240 VAC adapter by special order) , 50/60 Hz					
Warranty	Two-year Limited Warranty					
Return Policy	OHAUS Standard Policy - restock fee may apply					

## Part Number/Price

Part #	Model #	Description	Price
191850	PX84/E	82 g x 0.1 mg	\$1,912.00
191851	PX124/E	120 g x 0.1 mg	\$2,204.00
191852	PX224/E	220 g x 0.1 mg	\$2,450.00
191853	PX163/E	160 g x 0.001 g	\$1,107.00
191854	PX323/E	320 g x 0.001 g	\$1,292.00
191855	PX523/E	520 g x 0.001 g	\$1,635.00
191856	PX1602/E	1,600 g x 0.01 g	\$1,066.00
191857	PX2202/E	2,200 g x 0.01 g	\$1,169.00
191858	PX3202/E	3,200 g x 0.01 g	\$1,415.00
191859	PX4202/E	4,200 g x 0.01 g	\$1,594.00
191860	PX2201/E	2,200 g x 0.1 g	\$990.00
191861	PX4201/E	4,200 g x 0.1 g	\$1,148.00

## Options/Accessories

Part #	Model #	Description	Price
67413	SW12W	TAL software WinWedge®	\$482.00
191875	80850043	Security device for Pioneer	\$211.00
102799	128-00	Forceps, 2.75 in (70 mm)	\$22.00
102800	129-00	Forceps, 3.5 in (89 mm)	\$22.00
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (3.8 cm x 5.1 cm), weight 4 g	\$27.00
33454	4590-30	Black scoop, aluminum 4 in x 3.5 ft (10.2 cm x 8.9 cm), weight 24 g	\$33.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia. x 2.5 in deep (25.4 cm dia. x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
97250	80250400	Stainless steel scoop 11.9 in x 7.38 in x 1.69 in	\$62.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	\$82.00
156234	46001724	AC adapter (requires 156235 plug set)	\$43.00
156235	46001780	Universal plug set	\$17.00
191876	80251396	Auxiliary display PAD7	\$62.00
191877	80253384	Density kit	\$708.00
191878	83034024	Sinker glass for density determination	\$590.00
191879	83021085	USB interface cable	\$176.00
191880	30093334	Dust cover	\$45.00
191881	30372546	In-use cover	\$40.00



### Standard Features

- Intuitive SmarText™ software
- 4 programmable touchless sensors
- 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

	EX125D^	EX125^	EX225D^	EX225D/AD^	EX225/AD^
Part Number	171347	171348	171349	171350	171351
List Price	\$5,384.00	\$6,719.00	\$6,872.00	\$8,517.00	\$9,314.00
Capacity	52 g/120 g	120 g	120 g/220 g	120 g/220 g	220 g
Resolution	0.01 mg/0.1 mg	0.01 mg	0.01 mg/ 0.1 mg	0.01 mg/ 0.1 mg	0.01 mg
Weighing Units	Gram, Milligram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Mom, Mesghal, Tical, Tola, Baht, Tael, 3 Custom Units				
Operating Modes	Weighing, Percent Weighing, Parts Counting, Checkweighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Pipette Adjustment, SQC				
Repeatability (20 g) std	±0.015 mg				
Repeatability (100 g) std	0.1 mg	0.02 mg	0.02 mg/0.1 mg	0.02 mg/0.1 mg	0.03 mg
Linearity (mg)	±0.1 mg				
Stabilization Time	0.1 mg ≤ 0.3 seconds; 0.01 mg ≤ 8 second				
Min-Weight (typical)	20.0 mg fine range (USP, u=0.10%, k=2)				
Operating Temperature Range	14° F to 86° F (-10° C to 30° C)				
Pan Size	80 mm				
Dimensions	(W x D x H) 9 x 15.4 x 13.8 in (230 x 393 x 350 mm)				
Shipping Weight	25 lb (12.5 kg)				
Calibration	Auto Cal internal calibration				
Power Requirements	AC adapter input: 100-240 VAC 0.6A 50-60 Hz				
Warranty	Two-year Limited Warranty				
Return Policy	OHAUS Standard Policy - restock fee may apply				

^Weighing Chamber

### Part Number/Price

Part #	Model #	Description	Price
171347	EX125D	52 g/120 g x /0.01 mg/0.1 mg	\$5,384.00
171348	EX125	120 g x 0.01 mg	\$6,719.00
171349	EX225D	120 g/220 g x 0.01 mg/0.1 mg	\$6,872.00
171350	EX225D/AD	120 g/220 g x 0.01 mg/0.1 mg	\$8,517.00
171351	EX225/AD	2,200 g x 0.01 g	\$9,314.00

### Options/Accessories

Part #	Model #	Description	Price
67422	80253384	Density determination kit	\$656.00
70406	80500525	RS-232 cable, PC 9-Pin to EX	\$176.00
156234	-	AC adapter	\$43.00
156235	-	International plug set	\$17.00

Capacity: 120g-320g Readability: 0.0001 g

## 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
- Standard underweigh capability
- Protective in-use cover and security bracket



## Optional Features

- Autocal™ automatic calibration
- NTEP Certified, Legal for Trade models by special order

## Specifications

	EX124 <sup>^</sup>	EX224 <sup>^*</sup>	EX324 <sup>^*</sup>
Part Number	121192	121193	121194
List Price	\$4,018.00	\$4,465.00	\$5,247.00
Capacity	120 g	220 g	320 g
Resolution	0.0001 g		
Weighing Units	Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units		
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		
Repeatability	±0.0001 g		
Linearity	±0.0002 g		
Stabilization Time	≤2 seconds		≤3 seconds
Operating Temperature Range	50° F to 86° F (10° C to 30° C)		
Weighing Chamber	(W x D x H) 9.5 x 7.5 x 6.5 in (241.3 x 190.5 x 165.1 mm)		
Pan Size	Ø 3.5 in (90 mm)		
Display Housing Dimensions	(W x D x H) 7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm)		
Dimensions Base	9.1 x 13.8 x 15.5 in (230 x 350 x 393 mm)		
Shipping Weight	21.1 lb (9.6 kg)		
Calibration	AutoCal™ on Δ1.5° C temperature change, 11 hours, and external calibration		
Power Requirements	AC adapter input: 100-240 VAC 0.6A 50-60 Hz		
Warranty	Two-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		

<sup>^</sup>Weighing Chamber

<sup>\*</sup>NTEP and Measurement Canada models available by special order

## Part Number/Price

Part #	Model #	Description	Price
121192	EX124	120g x 0.0001 g	\$4,018.00
121193	EX224	220g x 0.0001 g	\$4,465.00
121194	EX324	320g x 0.0001 g	\$5,247.00

## Options/Accessories

Part #	Model #	Description	Price
67422	80253384	Density determination kit	\$656.00
35263	76288-01	Security device for EX	\$80.00
77712	80500524	RS-232 cable, PC 25-Pin to EX	\$176.00
70406	80500525	RS-232 Cable, PC 9-Pin to EX	\$176.00
156234	46001724	Multi-range AC adapter	\$43.00
156235	46001780	International plug set	\$17.00



**Standard Features**

- Capacities from 220g to 10.2kg with Readability to 0.001g
- Large, 5.7 in 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 five display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation
- 0.001g models feature frameless draftshield with anti-static glass, flip-top and large side entry doors on top-mounted bearings

**Optional Features**

- External calibration models

**Specifications**

	EX223^	EX423^*	EX623^	EX1103^*	EX2202	EX4202*	EX6202	EX10202*	EX6201	EX10201*
Part Number	121195	121196	121197	121198	121199	121200	121201	121202	121203	121204
List Price	\$2,631.00	\$3,078.00	\$3,764.00	\$4,419.00	\$2,850.00	\$3,276.00	\$3,718.00	\$4,414.00	\$3,088.00	\$3,388.00
Capacity	220g	420g	620g	1,100g	2,200g	4,200g	6,200g	10,200g	6,200g	10,200g
Resolution	0.001g			0.01g				0.1g		
Weighing Units	Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units									
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									
Repeatability	±0.001g			±0.01g				±0.1g		
Linearity	±0.002g			±0.02g				±0.1g		
Stabilization Time	≤1.5 seconds							≤1 seconds		
Operating Temperature Range	50° F to 86° F (10° C to 30° C)									
Weighing Chamber	(W x D x H) 9.5 x 7.5 x 6.5 in					N/A				
Pan Size	Ø 5.1 in (130 mm)					7.5 x 7.9 in (190 x 200 mm)				
Display Housing Dimensions	(W x D x H) (7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm))									
Dimensions Base	(W x D x H) 9.1 x 13.8 x 15.5 in (230 x 350 x 393 mm)					(W x D x H) 9.1 x 3.9 x 15.5 in (230 x 98 x 393 mm)				
Shipping Weight	21.1 lb (9.6 kg)					15 lb (6.8 kg)		16.3 lb (7.4 kg)		
Calibration	AutoCal™ on Δ1.5° C temperature change, 11 hours, and external calibration									
Power Requirements	AC adapter input: 100-240 VAC 0.6A 50-60 Hz									
Warranty	Two-year Limited Warranty									
Return Policy	OHAUS Standard Policy - restock fee may apply									

^Weighing Chamber

\*NTEP models available by special request



## Part Number/Price

Part #	Model #	Description	Price
121195	EX223^	220 g x 0.001 g	\$2,631.00
121196	EX423^	420 g x 0.001 g	\$3,078.00
121197	EX623^	620 g x 0.001 g	\$3,764.00
121198	EX1103^	1,100 g x 0.001 g	\$4,419.00
121199	EX2202	2,200 g x 0.01 g	\$2,850.00
121200	EX4202	4,200 g x 0.01 g	\$3,276.00
121201	EX6202	6,200 g x 0.01 g	\$3,718.00
121202	EX10202	10,200 g x 0.01 g	\$4,414.00
121203	EX6201	6,200 g x 0.1 g	\$3,088.00
121204	EX10201	10,200 g x 0.1 g	\$3,388.00

^Weighing Chamber

## Options/Accessories

Part #	Model #	Description	Price
67422	80253384	Density determination kit (for 410 g capacity and below)	\$656.00
35263	76288-01	Security device for EX	\$80.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$176.00
70406	80500525	RS-232 cable, PC nine-pin to EX	\$176.00
156234	46001724	Multi-range AC adapter	\$43.00
156235	46001780	International plug set	\$17.00



**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 IP 54 die-cast metal bottom housing with stainless steel pan
- Integral weigh below hook
- ENERGY STAR qualified adapter

**APPROVALS**

Measurement  
Canada  
Approved

**Specifications**

	Ex12001	Ex24001	Ex35001
Part#	157235	157236	157237
List Price	\$3,748.00	\$4,566.00	\$5,363.00
Capacity	12,000 g	24,000 g	35,000 g
Resolution	0.1 g		
Weighing Modes	Gram, Kilogram, Carat, Ounce, Troy Ounce, Pound., Pennyweight, Mommies, Grain, Tical, Tola, Newton, Mesghal, 3 Custom Units		
Operating Modes	Weighing, Counting, Animal/Dynamic Weighing, Checkweighing, Percent Weighing, Filling, Parts Counting, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC		
Repeatability	±0.1 g		
Linearity	±0.2 g		
Stabilization Time	≤1 seconds		
Operating Temperature	14° F to 140° F (-10° C to 60° C)		
Pan Size	14.84 x 12.24 in (377 x 311 mm)		
Display Housing Dimensions	(W x D x H) 7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm)		
Dimensions Base	(W x D x H) 14.84 x 4.72 x 17.44 in (377 x 120 x 443 mm)		
Weight (Approx.)	25 lb (12.5 kg)		
Calibration	Auto Cal internal calibration		
Power	AC adapter input: 100-240VAC 0.6A 50-60 Hz		
Warranty	Two-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		
Approvals	Measurement Canada AM-5957		

### Part Number/Price

Part #	Model #	Description	Price
157235	EX12001	12,000 g x 0.1 g	\$3,748.00
157236	EX24001	24,000 g x 0.1 g	\$4,566.00
157237	EX35001	35,000 g x 0.1 g	\$5,363.00

### Options/Accessories

Part #	Model #	Description	Price
157238	30078082	Tower mount display	\$139.00
77712	80500524	RS-232 cable, PC 25-pin to EX	\$176.00
70406	80500525	RS-232 cable, PC nine-pin to EX	\$176.00
156234	46001724	Multi-range AC adapter	\$43.00
156235	46001780	International plug set	\$17.00



Analytical

Precision

APPROVALS



Measurement  
Canada  
Approved

**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**

	AX124 ^	AX224 ^	AX324 ^	AX223 ^	AX423 ^	AX523 ^	AX622	AX1502
Part Number	164622	164623	164625	164626	164628	164630	164633	164635
List Price	\$3,362.00	\$3,696.00	\$4,244.00	\$2,009.00	\$2,353.00	\$2,645.00	\$1,661.00	\$1,948.00
<b>NTEP*</b> Part Number	N/A	164624	N/A	164627	164629	164632	164634	164636
<b>NTEP*</b> List Price	N/A	\$3,962.00	N/A	\$1,804.00	\$2,102.00	\$2,440.00	\$1,374.00	\$1,743.00
NTEP Certified Approvals	-	I (0.001 g) AM-5957, CC 14-082	-	II (0.01 g) AM-5957, CC 14-082	II (0.01 g) AM-5957, CC 14-082	II (0.01g) AM-5957, CC 14-082	II (0.1g) AM-5957, CC 14-082	
Capacity (g)	120 g	220 g	320 g	220 g	420 g	520 g	620 g	1,520 g
Resolution (g)	0.0001 g	0.0001 g	0.0001 g	0.001 g	0.001 g	0.001 g	0.01 g	0.01 g
Weighing Modes	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							
Repeatability	1 mg			0.001 g				
Linearity	0.2 mg				0.002 mg			
Operating Temperature	10° C to 30° C (50° F to 86° F)							
Pan Size	3.5 in (90 mm)			5.1 in (130 mm)			6.9 x 7.7 in (175 x 195 mm)	
Dimensions Base Housing	(W x D x H) 13.93 x 13.39 x 9.05 in (354 x 340 x 230 mm)						(W x D x H) 13.93 x 3.94 x 9.05 in (354 x 100 x 230 mm)	
Weight (Approx.)	17.2 lb (7.8 kg)			12.8 lb (5.8 kg)			14.4 lb (6.5 kg)	
Calibration Weight (g)	100	200	300	200	400	500	600	1500
Power	100 - 240 VAC, 0.3A, 50-60 HZ AC adapter							
Warranty	Two-year Limited Warranty							

\* NTEP Certified models have reduced resolution

^Weighing Chamber

## Specifications

	AX2202	AX4202	AX5202	AX4201	AX8201
Part Number	164637	164639	164641	164642	164643
List Price	\$2,179.00	\$2,542.00	\$2,850.00	\$1,584.00	\$1,810.00
<b>NTEP</b>	Part Number	164638	164640	N/A	164644
	List Price	\$1,968.00	\$2,332.00	N/A	\$1,528.00
Capacity (g)	2,200 g	4,200 g	5,200 g	4,200 g	8,200 g
Resolution (g)	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g
NTEP Certified Class	II (0.1 g)	II (0.1 g)	-	-	II (1 g)
Weighing Modes	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	Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation				
Repeatability	0.01 g			0.1 g	0.1 g
Linearity	0.002 mg			0.02 mg	0.02 mg
Operating Temperature	10° C to 30° C (50° F to 86° F)				
Pan Size	175 x 195 mm (6.9 x 7.7 in)				
Dimensions Base Housing	(W x D x H) 13.93 x 3.94 x 9.05 in (354 x 100 x 230 mm)				
Weight (Approx.)	14.4 lb (6.5 kg)				12.6 lb (5.7 kg)
Calibration Weight (g)	2,000	4,000	5,000	4,000	8,000
Power	100-240 VAC, 0.3A, 50-60 HZ AC adapter				
Warranty	Two-year Limited Warranty				

\* NTEP Certified models have reduced resolution

## Part Number/Price

Part #	Model #	Description	Price
164622	AX124	120 g x 0.0001 g	\$3,362.00
164623	AX224	220 g x 0.0001 g	\$3,696.00
164624	AX224 N	220 g x 0.001 g	\$3,962.00
164625	AX324	320 g x 0.0001 g	\$4,244.00
164626	AX223	320 g x 0.001 g	\$2,009.00
164627	AX223 N/E	220 g x 0.001 g	\$1,804.00
164628	AX423	420 g x 0.001 g	\$2,353.00
164629	AX423 N/E	420 g x 0.01 g	\$2,102.00
164630	AX523	520 g x 0.001 g	\$2,645.00
164632	AX523 N/E	520 g x 0.01 g	\$2,440.00
164633	AX622	620 g x 0.001 g	\$1,661.00
164634	AX622 N/E	620 g x 0.01 g	\$1,374.00
164635	AX1502	1,520 g x 0.01 g	\$1,948.00
164636	AX1502 N/E	1,520 g x 0.1 g	\$1,743.00
164637	AX2202	2,200 g x 0.01 g	\$2,179.00
164638	AX2202 N/E	2,200 g x 0.1 g	\$1,968.00
164639	AX4202	4,200 g x 0.01 g	\$2,542.00
164640	AX4202 N/E	4,200 g x 0.1 g	\$2,332.00
164641	AX5202	5,200 g x 0.01 g	\$2,850.00
164642	AX4201	4,200 g x 0.1 g	\$1,584.00
164643	AX8201	8,200 g x 0.1 g	\$1,810.00
164644	AX8201 N/E	8,200 g x 1 g	\$1,528.00

## Options/Accessories

Part #	Model #	Description	Price
67422	80253384	Density determination kit	\$656.00
156809	AK87421-1-R	USB cable, Type A to B	\$50.00
67423	80850043	Security device (laptop lock)	\$195.00
77712	80500524	25-pin RS-232 cable (PC)	\$176.00
70406	80500525	Nine-pin RS-232 cable (PC)	\$176.00



### 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 port for easy communication with printer or computer
- Multi-language display text (English, Spanish, French)

### APPROVALS



### Specifications

	MB23	MB27	MB90	MB120
Part #	109522	178254	178255	178256
List Price	\$2,819.00	\$2,870.00	\$3,793.00	\$4,818.00
Capacity	110 g	90 g	90 g	120 g
Resolution	0.01 g	0.001 g	0.001 g	0.001 g
Repeatability	3 g sample-0.3%; 10 g sample-0.1%	3 g sample-0.2%; 10 g sample-0.05%	3 g sample-0.18%; 10 g sample-0.02%	3 g sample-0.05%; 10 g sample-0.015%
Moisture Range	0.1% to 100%	0.05% to 100%	0.01% to 100%	0.01% to 100% (0.01% to 100% for regain mode)
Heater Type	Infrared (no glass)	Halogen		
Timer	1-99 minutes, 30 second increments to 60 min		1-120 min in 30 second to 60 min increments, 1 min increments from 60-120 min	1-120 min in 10 second increments
Temperature Settings	50° C to 160° C x 5° C (increments)		40° C to 200° C x 1° C	40° C to 230° C x 1° C
Operating Temperature	41° F to 104° F (5° C to 40° C)		50° F to 104° F (10° C to 40° C)	
Pan Size	Ø 9 cm (3.5 in)			
Dimensions	(W x D x H) 7.5 x 6.0 x 14 in (191 x 152 x 356 mm)	(W x D x H) 6.5 x 5 x 11 in (165 x 127 x 279 mm)	(W x D x H) 8.3 x 7.7 x 14 in (211 x 196 x 356 mm)	
Est. Ship Weight	14 lb (6.3 kg)			
Power	120V AC Adapter			
Warranty	Two-year Limited Warranty			
Return Policy	OHAUS Standard Policy - restock fee may apply			

## Part Number/Price

Part #	Model #	Description	Price
109522	MB23	110 g x 0.01 g (0.1% IR)	\$2,819.00
178254	MB27	90 g x 0.001 g (0.05% Halogen heat)	\$2,870.00
178255	MB90	90 g x 0.001 g (0.02% Halogen heat)	\$3,793.00
178256	MB120	120 g x 0.001 g (0.015% Halogen heat)	\$4,818.00

## Options/Accessories

Part #	Model #	Description	Price
70401	11113857	Temperature calibration kit	\$530.00
70402	80850087	Pads, glass fiber, 200/box	\$93.00
70403	80850086	Sample pans, 80/box, 90 mm diameter	\$59.00
70404	80850088	Reusable sample pans, 3/box	\$184.00
70405	80850085	In-use cover	\$71.00
70406	80500525	Cable, nine-pin serial extension	\$176.00
67423	470004-010	Security device	\$195.00
67413	SW12W	WinWedge® TAL Software	\$482.00
70860	11113873	Sample pan handler (MB-35 only)	\$129.00
104770	—	Paper for PN 104767	\$17.00
104771	—	Ribbon for PN 104767	\$50.00



SPX Round Pan



STX Rectangular Pan

**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
- Battery or AC operation (AC adaptor included)

**Specifications**

LCD Model	SPX123 <sup>^</sup>	SPX223 <sup>^</sup>	SPX222	SPX422	SPX622	SPX1202
Part#	171984	171985	171986	171987	171988	171989
List Price	\$656.00	\$734.00	\$481.00	\$674.00	\$788.00	\$899.00
Touchscreen Model	STX123 <sup>^</sup>	STX223 <sup>^</sup>	STX222	STX422	STX622	STX1202
Part#	171996	171998	171999	172000	172001	172002
List Price	\$746.00	\$834.00	\$546.00	\$765.00	\$896.00	\$1,023.00
Capacity	120 g	220 g	220 g	420 g	620 g	1,200 g
Resolution	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g	0.01 g
Unit of Measure	Gram, Kilogram, Carat, Newton, Ounce, Troy Ounce, Pennyweight, Pound, Pound/Ounce, Grain, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, STX Models: Miligram and Customer Unit					
Operating Modes	Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination, Mole Weighing					
Repeatability	2d	2d	1d	1d	1d	2d
Linearity	0.003 g	0.001 g	0.01 g	0.01 g	0.01 g	0.01 g
Stabilization Time	1 second	1 second	1 second	1 second	1 second	1 second
Operating Temperature	50° F to 104° F / 10° C to 40° C; 10% to 85% at 31° C, decreasing linearly to 50% at 40° C (non-condensing)					
Typical Battery Life (STX)	7 hours					
Typical Battery Life (SPX)	80 hours		120 hours		80 hours	
Pan Size	Ø 3.7 in (93 mm)		Ø 4.7 in (120 mm)			6.7 x 5.5 in (170 x 140 mm)
Dimensions	(W x D x H) 8 x 8.7 x 4.1 in (202 x 222 x 103 mm)		(W x D x H) 8 x 8.8 x 2.1 in (202 x 224 x 54 mm)			
Weight (Approx.)	1 kg					
Est. Ship Weight	2.8 lb (1.24 kg)					
Calibration Weight	100 g	200 g	200 g	400 g	600 g	1,000 g
Power	Multi-range, multi-plug AC power or battery (uses 4-AA batteries not included)					
Warranty	One-year Limited Warranty					
Return Policy	Ohaus standard policy - restock fee may apply					

<sup>^</sup>Weighing Chamber



## Specifications

LCD Model	SPX2202	SPX421	SPX621	SPX2201	SPX6201	SPX8200
Part#	171990	171991	171992	171993	171994	171995
List Price	\$1,012.00	\$266.00	\$393.00	\$495.00	\$816.00	\$411.00
Touchscreen Model	STX2202	STX421	STX621	STX2201	STX6201	STX8200
Part#	172003	172004	172005	172006	172007	172008
List Price	\$1,150.00	\$310.00	\$459.00	\$579.00	\$928.00	\$480.00
Capacity	2,200 g	420 g	620 g	2,200 g	6,200 g	8,200 g
Resolution	0.01 g	0.1 g	0.1 g	0.1 g	0.1 g	1 g
Unit of Measure	Gram, Kilogram, Carat, Newton, Ounce, Troy Ounce, Pennyweight, Pound, Pound/Ounce, Grain, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, STX Models: Milligram and Customer Unit					
Operating Modes	Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination					
Repeatability	2d	1d	1d	1d	1d	1d
Linearity	0.01 g	0.1 g	0.1 g	0.1 g	0.2 g	1 g
Stabilization Time	1 second	1 second	1 second	1 second	1 second	1 second
Operating Temperature	50° F to 104° F / 10° C to 40° C; 10% to 85% at 31° C, decreasing linearly to 50% at 40° C (non-condensing)					
Typical Battery Life (STX)	7 hours					
Typical Battery Life (SPX)	80 hours	120 hours	120 hours	120 hours	80 hours	120 hours
Pan Size	6.7 x 5.5 in (170 x 140 mm)	Ø 4.7 in (120 mm)	6.7 x 5.5 in (170 x 140 mm)			
Dimensions	(W x D x H) 8 x 8.8 x 2.1 in (202 x 224 x 54 mm)					
Weight (Approx.)	1 kg					
Est. Ship Weight	2.8 lb (1.24 kg)					
Calibration Weight	2,000 g	400 g	600 g	2,000 g	6,000 g	8,000 g
Power	Multi-range, multi-plug AC power or battery (uses 4-AA batteries not included)					
Warranty	One-year Limited Warranty					
Return Policy	Ohaus standard policy - restock fee may apply					

## Part Number/Price

Part #	Model #	Description	Price
171984	SPX123	120 g x 0.001 g	\$656.00
171985	SPX223	220 g x 0.001 g	\$734.00
171986	SPX222	220 g x 0.01 g	\$481.00
171987	SPX422	420 g x 0.01 g	\$674.00
171988	SPX622	620 g x 0.01 g	\$788.00
171989	SPX1202	1,200 g x 0.01 g	\$899.00
171990	SPX2202	2,200 g x 0.01 g	\$1,012.00
171991	SPX421	420 g x 0.1 g	\$266.00
171992	SPX621	620 g x 0.1 g	\$393.00
171993	SPX2201	2,200 g x 0.1 g	\$495.00
171994	SPX6201	6,200 g x 0.1 g	\$816.00
171995	SPX8200	8,200 g x 1 g	\$411.00
171996	STX123	120 g x 0.001 g	\$746.00
171998	STX223	220 g x 0.001 g	\$834.00
171999	STX222	220 g x 0.01 g	\$546.00
172000	STX422	420 g x 0.01 g	\$765.00
172001	STX622	620 g x 0.01 g	\$896.00
172002	STX1202	1,200 g x 0.01 g	\$1,023.00
172003	STX2202	2,200 g x 0.01 g	\$1,150.00
172004	STX421	420 g x 0.1 g	\$310.00
172005	STX621	620 g x 0.1 g	\$459.00
172006	STX2201	2,200 g x 0.1 g	\$579.00
172007	STX6201	6,200 g x 0.1 g	\$928.00
172008	STX8200	8,200 g x 1 g	\$480.00

## Options/Accessories

Part #	Model #	Description	Price
67413	SW12W	WinWedge® TAL Software	\$482.00
104770	-	Paper for PN 104767	\$17.00
104771	-	Ribbon for PN 104767	\$50.00
181878	30330714	Power supply, US plug, 110/220 VAC	\$22.00

Capacity: 200g-5,000g    Readability: 0.1 g-1 g

## 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
- Standard AC adapter
- Easy operation
- Low-battery indicator
- Auto shut-off feature
- Overload protection
- Push-button calibration



## Specifications

	CS200	CS2000	CS5000	CS2000P*	CS5000P*	CS200P*
Part #	53493	53494	53495	53496	53497	83225
List Price	\$159.00	\$159.00	\$188.00	\$171.00	\$204.00	\$171.00
Capacity	200 g	2,000 g	5,000 g	2,000 g	5,000 g	200 g
Resolution	0.1 g	1 g	1 g	1 g	1 g	0.1 g
Weighing Modes	Grams, Pound/Ounce and Newton			4 lb:6.55 oz x 0.05 oz	11 lb:0.4 oz x 0.1 oz	0 lb:7 oz x 0.01 oz
Repeatability	0.1 g	1 g	1 g	1 g	1 g	0.1 g
Linearity	±0.1 g	±1 g	±1 g	±1 g	±1 g	±0.1 g
Stabilization Time	3 seconds					
Operating Temperature	64° F to 77° F (18° C to 25° C)					
Pan Size	5.75 x 5.25 in (14.5 x 13.3 cm)					
Dimensions	(W x D x H) 8.0 x 5.5 x 1.5 in (20.3 x 14.0 x 3.8 cm)					
Weight (Approx.)	0.91 lb (0.47 kg)					
Power	3 AA alkaline batteries (included) or AC adapter (included)					
Battery Life	300 hours					
Warranty	One-year Limited Warranty					
Return Policy	OHAUS Standard Policy - restock fee may apply					

\*Includes US postal chart

## Part Number/Price

Part #	Model #	Description	Price
53493	CS200	200 g x 0.1 g	\$159.00
53494	CS2000	2,000 g x 1 g	\$159.00
53495	CS5000	5,000 g x 1 g	\$188.00
53496	CS2000P*	2,000 g x 1 g	\$171.00
53497	CS5000P*	5,000 g x 1 g	\$204.00
83225	CS200P*	200 g x 0.1 g	\$171.00

## Options/Accessories

Part #	Model #	Description	Price
156234	90524-66	110/240 VAC AC power supply (requires PN 156235)	\$43.00
70434	80850075	Bowl, 1,050 mL	\$49.00
70435	80850076	Stainless steel weighing pan cover	\$54.00
156235	-	Plug set	\$17.00



### 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
- Battery (standard) or AC adapter (optional) operation

### Specifications

	CL201	CL2000	CL5000
Part #	103101	103102	103103
List Price	\$109.00	\$109.00	\$151.00
Capacity	200g	2,000g	5,000g
Resolution	0.1 g	1 g	1 g
Weighing Modes	Grams, Pound/Ounces, Pennyweight, Troy Ounces		
Repeatability	0.1 g	1 g	1 g
Linearity	± 0.1 g	± 1 g	± 1 g
Stabilization Time	3 seconds		
Operating Temperature	65°F to 77°F (18°C to 25°C)		
Pan Size	Ø 4.75 in (12.0 cm)		
Dimensions	(W x D x H) 5.5 x 1.6 x 7.9 in (14 x 4.0 x 20 cm)		
Weight (Approx.)	0.875 lb (0.4 kg)		
Power	3 AA batteries (included) (AC adapter is optional)		
Battery Life	300 hours		
Warranty	One-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		

### Part Number/Price

Part #	Model #	Description	Price
103101	CL201	200 g x 0.1 g	\$109.00
103102	CL2000	2,000 g x 1 g	\$109.00
103103	CL5000	5,000 g x 1 g	\$151.00

### Options/Accessories

Part #	Model #	Description	Price
70434	80850075	Bowl for CS compact scales (1,050 ml)	\$49.00
156234	90524-66	AC adapter for CL	\$43.00
103521	80010624	Carrying case for CS and CL scales	\$59.00
33455	5076-00	Aluminum scoop, 1.5 x 2 in (3.8 x 5.1 cm), weight 4 g	\$27.00
33454	4590-30	Black scoop, aluminum 4 x 3.5 in (10.2 x 8.9 cm), weight 24 g	\$33.00
156235	-	Plug set	\$17.00

Capacity: 60g-320g    Readability: 0.1 g-0.2g

**Standard Features**

- Weighing modes: g (HH120D); g, oz, dwt, ozt (HH120, HH320)
- Large, 0.4 in (10.16 mm) high-contrast backlit liquid crystal display (LCD)
- Low-battery indicator
- Overload and underload indicators
- Auto shut-off
- Protective snap-on cover
- Rugged plastic construction

**HH120/320****Additional Features**

- Push-button luminescent display and soft tactile feedback keypad with protective cover

**Specifications**

	HH120D	HH120	HH320
Part#	52541	64055	52540
List Price	\$179.00	\$213.00	\$265.00
Capacity	60 g/120 g	120 g	320 g
Resolution	0.1 g/0.2 g	0.1 g	0.1 g
Weighing Modes	-	Grams, Ounces, Pennyweight, Troy Ounces	
Maximum overload		150% of capacity	
Linearity	±0.1 g/±0.2 g	±0.1 g	±0.2 g
Stabilization Time		3 seconds	
Pan Size		3.25 x 3.2 in (82.55 x 76.2 mm)	
Dimensions		(W x D x H) 5.35 x 3.25 x 0.8 in (13.6 x 8.5 x 2 cm)	
Weight (Approx.)		0.34 lb (0.16 kg)	
Calibration	Factory set	Calibration with keypad	
Auto Shutoff		Two minutes no activity	
Power		Battery operated	
Warranty		One-year Limited Warranty	
Return Policy		OHAUS Standard Policy - restock fee may apply	

**Part Number/Price**

Part#	Model#	Description	Price
52541	HH120D	60 g/120 g x 0.1 g/0.2 g	\$179.00
64055	HH120	120 g x 0.1 g	\$213.00
52540	HH320	320 g x 0.1 g	\$265.00



### Standard Features

- Smaller size than most pocket scales allows a comfortable fit in your pocket
- Clamshell case designs and protects scale during transport
- Weighs in g, oz, ct and grain
- Bright blue backlit LCD display

### Specifications

	YA102	YA302
Part #	103106	103107
List Price	\$106.00	\$91.00
Capacity	100 g	300 g
Resolution	0.01 g	0.05 g
Weighing Modes	Grams, Ounces, Carats and Grains	
Calibration	External	
Auto Shutoff	10 to 30 seconds	
Power	2 AAA batteries	
Warranty	One-year Limited Warranty	
Return Policy	OHAUS Standard Policy - restock fee may apply	

### Part Number/Price

Part #	Model #	Description	Price
103106	YA102	100 g x 0.01 g	\$106.00
103107	YA302	300 g x 0.05 g	\$91.00

### Options/Accessories

Part #	Model #	Description	Price
33455	5076-00	Aluminum scoop, 1.5 x 2 in (3.8 x 5.1 cm), weight 4 g	\$27.00
33454	4590-30	Black scoop, aluminum 4 x 3.5 in (10.2 x 8.9 cm), weight 24 g	\$33.00

Capacity: 610g-2,610g    Readability: 0.1 g

## Standard Features

- Notched and tiered beams for easy reading
- Positive poise positioning for repeatability
- Magnetically damped
- Zero adjust compensator
- Choice of Five Weighing Platforms: Stainless steel pan, polypropylene scoop, stainless steel scoop, aluminum animal box, stainless steel plate
- Optional tare beam vernier dial



TP26II

Triple Beam Pro with  
Attachment Weight

## Specifications

	710-00	710-T0	720-00	750-S0	760-00	720-S0
Part#	33350	33351	33352	33355	33357	33353
List Price	\$268.00	\$328.00	\$316.00	\$149.00	\$277.00	\$367.00
Capacity	610 g	610 g	610 g	610 g	610 g	610 g
Resolution	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g
Tare Range	-	225 g	-	-	225 g	-
Pan Design	Stainless steel pan	Stainless steel pan with tare	Polypropylene scoop	Stainless steel plate	Stainless steel plate with tare	Stainless steel scoop
Pan Size	Ø 6 in (152.4 mm)		-	Ø 6 in (152.4 mm)		-
Dimensions	(W x D x H) 18 x 12 x 9 in (457.2 x 304.8 x 228.6 mm)					
Weight (Approx.)	8 lb					
Calibration	Front beam 10 x 0.1 g, Middle beam 500 x 100 g, Rear beam 100 x 10 g					
Warranty	Five-year Limited Warranty					
Return Policy	OHAUS Standard Policy - restock fee may apply					

## Specifications

	730-00	1650-00*	1650-W0*	1610-00*	TP2611
Part#	33354	33361	33362	33360	103109
List Price	\$396.00	\$347.00	\$401.00	\$401.00	\$213.00
Capacity	610 g	610 g	2,610 g	610 g	2,610 g
Resolution	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g
Tare Range	-	225 g	225 g	225 g	-
Pan Design	Aluminum weight boat	Stainless steel plate with tare			Stainless steel pan with rod and clamp
Pan Size	-	6 in (152.4 mm)			5.8 x 5.8 in (147.3 x 147.3 mm)
Dimensions	(W x D x H) 18 x 12 x 9 in (457.2 x 304.8 x 228.6 mm)				
Weight (Approx.)	8 lb (3.6 kg)				
Calibration	Front beam 10 g x 0.1 g, Middle beam 500 g x 100 g, Rear beam 100 g x 10 g				
Warranty	Five-year Limited Warranty				
Return Policy	OHAUS Standard Policy - restock fee may apply				

\*Dial-O-Gram models

**Triple Beam**

Mechanical Balance

**Part Number/Price**

Part #	Model #	Description	Price
33350	710-00	610 g x 0.1 g	\$268.00
33351	710-T0	610 g x 0.1 g	\$328.00
33352	720-00	610 g x 0.1 g	\$316.00
33355	750-S0	610 g x 0.1 g	\$149.00
33357	760-00	610 g x 0.1 g	\$277.00
33353	720-S0	610 g x 0.1 g	\$367.00
33354	730-00	610 g/2,610 g x 0.1 g	\$396.00
33361	1650-00	610 g x 0.1 g	\$347.00
33362	1650-W0	2,610 g x 0.1 g	\$401.00
33360	1610-00	610 g x 0.1 g	\$401.00
103109	TP2611	2,610 g x 0.1 g	\$213.00

**Options/Accessories**

Part #	Model #	Description	Price
33417	183-00	Rod and clamp assembly	\$67.00
33446	703-00	Polypropylene scoop, 12 x 6 x 2.75 in (304 x 152 x 70 mm) footed and counterweighted for balance without tare	\$50.00
33447	703-S0	Stainless steel scoop, 12 x 6 x 2.75 in (304 x 152 x 70 mm) footed and counterweighted for balance without tare	\$118.00
33448	704-00	Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (70 mm) deep with pouring spout and counterweight	\$53.00
33463	706-00	Vinyl dust cover	\$36.00
33414	707-00	Attachment weight set, metric	\$65.00



Capacity: 2,000 g    Readability: 0.1 g

## Standard Features

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



## Specifications

	1450-SD	1550-SD	1560-SD
Part#	33364	33367	33368
List Price	\$360.00	\$386.00	\$404.00
Capacity	2,000 g	2,000 g	2,000 g
Resolution	0.1 g	0.1 g	0.1 g
Pan Design	Two pan design; stainless steel plate		
Pan Size	6 in (152 mm)		
Dimensions	(W x D x H) 25 x 18 x 22 in (160 x 240 x 140 mm)		
Calibration	Top beam 10 lb x 0.1 lb; Bottom beam 200 g x 10 g		
Warranty	Five-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		

## Part Number/Price

Part#	Model#	Description	Price
33364	1450-SD	2,000 g x 0.1 g, single beam	\$360.00
33367	1550-SD	2,000 g x 0.1 g, two beam	\$386.00
33368	1560-SD	2,000 g x 0.1 g, two beam with tare	\$404.00

## Options/Accessories

Part#	Model#	Description	Price
33461	106-00	Vinyl dust cover for Harvard Trip Balances	\$36.00
33417	183-00	Rod and clamp assembly for Triple Beam or Harvard Trip	\$67.00

# Dial-O-Gram® and Cent-O-Gram®

Mechanical Balances

Capacity: 310g-311g Readability: 0.01g



## 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
- Five-year limited warranty

## Specifications

	310-00	311-00
Part #	33371	33370
List Price	\$389.00	\$321.00
Capacity	310 g	311 g
Resolution	0.01 g	0.01 g
Operating Mode	Dial	Poise
Pan Size	6 in (152.4 mm)	
Platform	Stainless steel (removable) 3.5 x 0.5 in (88.9 x 12.7 mm)	
Calibrations	Front beam-225 g tare; middle beam-500 g x 100 g; rear beam-100 g x 10 g; dial-10 g x 0.1 g	
Weight (Approx.)	5 lb (2.3 kg)	
Warranty	Five-year Limited Warranty	
Return Policy	OHAUS Standard Policy - restock fee may apply	

## Part Number/Price

Part #	Model #	Description	Price
33371	310-00	310 g x 0.01 g	\$389.00
33370	311-00	311 g x 0.01 g	\$321.00

## Options/Accessories

Part #	Model #	Description	Price
33420	76912-01	Test tube kit	\$36.00
33462	110-00	Vinyl dust cover	\$36.00
<b>Additional OHAUS Mechanical Balance Accessories</b>			
33414	707-00	Metric attachment mass set	\$65.00
33450	1101-20	Polypropylene scoop, 12 in x 6 in 2.75 in (304 x 152 x 70 mm) footed, tare 125 g	\$36.00
33451	3369-10	Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (63 mm) D with pouring spout	\$37.00
33454	4590-30	Black scoop, aluminum, 4 in x 3.5 in (102 x 89 mm)	\$33.00
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (38 x 51 mm)	\$27.00

Capacity: 16 kg, 36 lb    Readability: 5 g-0.01 lb

## 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
- Five-year limited warranty



## Specifications

	2400-11	2400-12
Part#	33379	33380
List Price	\$1,392.00	\$1,442.00
Capacity	16 kg	36 lb
Resolution	5 g	0.01 lb
Operating Mode	Poise	Poise
Platform	11 in (27.9 cm)	
Calibrations	Bottom beam-500 g x 5 g; top beam-1 lb x 0.01 lb	
Weight (Approximate)	12 lb (5.4 kg)	
Warranty	Five-year Limited Warranty	
Return Policy	OHAUS Standard Policy - restock fee may apply	

## Part Number/Price

Part #	Model #	Description	Price
33379	2400-11	16 kg x 5 g	\$1,392.00
33380	2400-12	36 lb x 0.01 lb	\$1,442.00

# Heavy Duty Solution

Mechanical Balance

Capacity: 20kg    Readability: 1g



## 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 2,270g
- Self-aligning bearings assure a long, maintenance-free life
- Five-year limited warranty

## Specifications

	<b>1119-D0</b>
Part #	33378
List Price	\$2,262.00
Capacity	20 kg
Resolution	1 g
Operating Mode	Poise
Pan Size	-
Platform	11 in (27.9 cm)
Calibrations	Front beam-100 g x 1 g; rear beam-1000 g x 100 g
Weight (Approx.)	12 lb
Warranty	Five-year Limited Warranty
Return Policy	OHAUS Standard Policy - restock fee may apply

## Options/Accessories

Part #	Model #	Description	Price
33378	1119-D0	20 kg x 1 g	\$2,262.00

Capacity: 6lb-30lb    Readability: 0.0002lb-0.01 lb

## Standard Features

- Designed for food service and other industrial applications with a focus on speed, durability and cleanliness
- All stainless steel, high-quality formed construction for sanitary cleaning and durability
- Checkweighing function for food packaging and preparation
- Internal rechargeable battery assures excellent portability
- Stainless steel housing and pan with non-slip rubber feet
- Checkweighing mode with 3-LED indicator and audible alarm
- Bright backlit LCD display
- Stable weight display within 2 seconds
- Multiple Weighing Units: lb, decimal/fractional oz, kg, g and lb
- AC power or internal rechargeable lead acid battery
- NSF-certified, USDA-AMS accepted, supports HACCP compliance
- EC/OIML type approved

*Note: NTEP Certified and Measurement Canada 3000e approved resolution is specific only to model without the "H" suffix. Units ship in non-NTEP Certified resolution.*



### APPROVALS



Measurement  
Canada  
Approved

## Specifications

	FD3H	FD3	FD6H	FD6	FD15H	FD15
Part#	102774	-	102775	-	102776	-
List Price	\$897.00	-	\$897.00	-	\$897.00	-
<b>NTEP</b> Part#	-	87824	-	87825	-	87826
<b>NTEP</b> List Price	-	\$800.00	-	\$800.00	-	\$800.00
Approvals	NSF listed/Certified to NSF C-2, UL C-US listed, NTEP CC 05-072 Class III, Measurement Canada AM-5582					
Capacity	6 lb	6 lb	15 lb	15 lb	30 lb	30 lb
Resolution	0.0002 lb	0.002 lb	0.001 lb	0.005 lb	0.001 lb	0.01 lb
Overload capacity	150%					
Operating Modes	Weighing, Checkweighing					
Repeatability	0.2 g		0.4 g		2 g	
Linearity	±0.2 g		±0.4 g		±0.2 g	
Stabilization Time	< 2 seconds					
Operating Temperature	14° F to 104° F (-10° C to 40° C) 10% to 85% relative humidity, non-condensing					
Environmental	IP43					
Pan Size	8.2 x 8.2 in (209 x 209 mm)					
Dimensions	(W x D x H) 9 x 12 x 2.8 in (300 x 223 x 71 mm)					
Weight (Approx.)	8 lb (3.6 kg)					
Est. Ship Weight	11 lb (5 kg)					
Power	120V AC adapter, 9V DC 0.5A 50/60Hz (Other adapters available by special request)					
Battery life	Maximum 120 hours					
Warranty	One-year Limited Warranty					
Return Policy	OHAUS Standard Policy - restock fee may apply					
<b>UNIT OF MEASURE</b> Kilogram	3 x 0.0001 kg	3 x 0.001 kg	6 x 0.0002 kg	6 x 0.002 kg	15 x 0.005 kg	15 x 0.005 kg
Grams	3,000 x .1 g	3,000 x 1 g	6,000 x 0.2 g	6,000 x 2 g	-	15,000 x 5 g
Ounce	96 oz x 0.005 oz; 96 oz x 1/4 oz	96 oz x 0.05 oz or 1/4 oz	240 oz x 0.01 oz; 240 oz x 1/4 oz	240 oz x 0.1 oz or 1/4 oz	480 oz x 0.02 oz or 1/4 oz	480 oz x 0.2 oz or 1/4 oz
Pound x Ounce	6 lb 0 oz x 1/4 oz; 6 lb 0 oz x 0.1 oz	-	15 lb 0 oz x 0.1 oz; 15 lb 0 oz x 1/4 oz	-	30 lb 0 oz x 0.1 oz or 1/4 oz	-

**Part Number/Price**

Part #	Model #	Description	Price
102774	FD3H	6 lb x 0.0002 lb	\$897.00
87824	FD3 (NTEP)	6 lb x 0.002 lb	\$800.00
102775	FD6H	15 lb x 0.001 lb	\$897.00
87825	FD6 (NTEP)	15 lb x 0.005 lb	\$800.00
102776	FD15H	30 lb x 0.001 lb	\$897.00
87826	FD15 (NTEP)	30 lb x 0.01 lb	\$800.00

**Options/Accessories**

Part #	Model #	Description	Price
103118	80251394	Hard shell carrying case for FD	\$109.00
103116	80251141	Flat pan for FD or Valor 5000	\$55.00
103117	80251140	In-use cover for FD or Valor 5000	\$37.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm)	\$62.00
100292	80250954	Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm)	\$82.00
98020	80500435	AC Adapter	\$60.00

Capacity: 2,200 g - 22,000 g Readability: 0.1 g - 1 g

## 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
- IP43 rating
- Impact-resistant ABS plastic housing with polished stainless steel spill-resistant pan
- Non-skid leveling feet



## Specifications

	NVT2201	NVT4201	NVT6200	NVT12000	NVT22000
Part Number	194607	194608	194609	194610	194611
List Price	\$372.00	\$465.00	\$460.00	\$495.00	\$595.00
Capacity	2,200 g	4,200 g	6,200 g	12,000 g	22,000 g
Resolution	0.1 g	0.1 g	1 g	1 g	1 g
Weighing Modes	Pound, Ounce, Pound/Ounce, Kilogram, Gram, Troy Ounce, Grain, Newton, Carat, Pennyweight, Tael (Hong Kong, Taiwan, Singapore), Tical, Tola				
Operating Modes	Weighing, Percent, Parts Counting, Checkweighing, Display Hold, Accumulation/Totalization				
Linearity	0.1 g/±0.2 g	0.1 g/±0.2 g	1 g/±2 g	1 g/±2 g	1 g/±2 g
Stabilization Time	1 second (NVT4201=1.5 seconds)				
Operating Temperature	50° F to 104° F (10° C to 40° C) at 20%-85% RH				
Pan Size	9.1 x 6.9 in (230 x 174 mm)				
Dimensions	(W x D x H) 9.5 x 9.8 x 2.9 in (240 x 250 x 74 mm)				
Weight (Approx.)	3.3 lb (1.5 kg)				
Est. Shipping Weight	5.1 lb (2.3 kg)				
Ext. Cal. Mass (optional)	2 lb (1 kg)	5 lb (2 kg)	10 lb (5 kg)	10 lb (5 kg)	20 lb (10 kg)
Power	12 VDC 0.42A AC adapter, 100-240V, four C-batteries (not included)				
Warranty	One-year Limited Warranty				
Return Policy	OHAUS Standard Policy - restock fee may apply				

## Part Number/Price

Part #	Model #	Description	Price
194607	NVT2201	2,200 g x 0.1 g	\$372.00
194608	NVT4201	4,200 g x 0.1 g	\$465.00
194609	NVT6200	6,200 g x 1 g	\$460.00
194610	NVT12000	12,000 g x 1 g	\$495.00
194611	NVT22000	22,000 g x 1 g	\$595.00

## Options/Accessories

Part #	Model #	Description	Price
118779	83032107	RS-232 interface kit, Navigator series	\$151.00
118780	83032108	USB interface kit	\$151.00
118781	83032109	Ethernet interface kit	\$151.00
194616	30467963	Carrying case	\$105.00
194615	30467987	Universal AC adapter	\$69.00



**Standard Features**

APPROVALS



- 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 standard
- Fast stabilizing time

**Specifications**

	V71P1502T	V71P3T	V71P6T	V71P15T	V71P30T
Part#	157316	157317	157318	157319	157320
List Price	\$651.00	\$651.00	\$651.00	\$651.00	\$651.00
Capacity	1.5kg	3kg	6kg	15kg	30kg
Resolution	0.00005 kg	0.0001 kg	0.0002 kg	0.0005 kg	0.001 kg
Weighing Modes	Weighing, Percent, Checkweighing, Accumulation				
Units of Measures	Pound, Ounce, Kilogram, Gram				
Pounds	3 lb x 0.0001 lb	6 lb x 0.0002 lb	15 lb x 0.0005 lb	30 lb x 0.001 lb	60 lb x 0.002 lb
Grams	1,500 g x 0.05 g	3,000 g x 0.1 g	6,000 g x 0.2 g	15,000 g x 0.5 g	30,000 g x 1 g
Ounces	48 oz x 0.002 oz	96 oz x 0.005 oz	240 oz x 0.01 oz	480 oz x 0.02 oz	960 oz x 0.05 oz
NTEP Resolution	3 lb x 0.001 lb	6 lb x 0.002 lb	15 lb x 0.005 lb	30 lb x 0.01 lb	60 lb x 0.02 lb
Operating Temperature	14° F to 104° F/-10° C to 40° C				
Pan Size	11.8 x 8.9 in (300 x 225 mm)				
Dimensions	(W x D x H) 12.2 x 12.9 x 4.6 in (311 x 327 x 117 mm)				
Weight (Approx.)	9.2 lb (4.2 kg)				
Power	100-240V, internal rechargeable battery 210-hr operation with 12-hr full charge				
Approvals	NTEP CC 13-022				
Warranty	One-year Limited Warranty				
Return Policy	OHAUS Standard Policy - restock fee may apply				

**Part Number/Price**

Part #	Model #	Description	Price
157316	V71P15025	1.5 kg x 0.00005 kg	\$651.00
157317	V71P3T	3 kg x 0.0001 kg	\$651.00
157318	V71P6T	6 kg x 0.0002 kg	\$651.00
157319	V71P15T	15 kg x 0.0005 kg	\$651.00
157320	V71P30T	30 kg x 0.001 kg	\$651.00

**Options/Accessories**

Part #	Model #	Description	Price
154638	30037447	Ethernet kit	\$139.00



Capacity: 200g-6kg Readability: 0.01g-1g

## Standard Features

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



## Specifications

	V31XH202	V31XH402	V31X501	V31XH2	V31X3	V31XH4	V31X6
Part #	100283	117790	117789	100284	100285	117792	100286
List Price	\$708.00	\$969.00	\$518.00	\$708.00	\$467.00	\$969.00	\$467.00
Capacity	200 g	400 g	500 g	2 kg	3 kg	4 kg	6 kg
Resolution	0.01 g	0.01 g	0.1 g	0.1 g	1 g	0.1 g	1 g
Weighing Modes	Pounds, Decimal or fractional Ounces, Pound:Ounce, Fluid Ounce (of water), Kilogram, Gram						
Operating Modes	Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity						
Protection rating	Non-washdown models						
Stabilization Time	<3 seconds						
Operating Temperature	32° F to 104° F (0° C to 40° C)						
Pan Size (W x D)	4.7 in (120 mm)			5.8 x 6.2 in (146 x 158 mm)			
Dimensions	(W x D x H) 8.5 x 7.3 x 3 in (218 x 186 x 72 mm)						
Weight (Approx.)	2.6 lb (1.2 kg)			2.9 lb (1.3 kg)			
Est. Ship Weight	10 lb (4.8 kg)						
Calibration	Digital external calibration						
Power	120V AC adapter (9V DC, 0.5A), four 1.5 Volt C batteries (not included)						
Battery life	50 hours with alkaline cells			120 hours with alkaline cells			
Warranty	One-year Limited Warranty						
Return Policy	OHAUS Standard Policy - restock fee may apply						

## Part Number/Price

Part #	Model #	Description	Price
100283	V31XH202	200 g x 0.01 g	\$708.00
117790	V31XH402	400 g x 0.01 g	\$969.00
117789	V31X501	500 g x 0.1 g	\$518.00
100284	V31XH2	2 kg x 0.1 g	\$708.00
100285	V31X3	3 kg x 1 g	\$467.00
117792	V31XH4	4 kg x 0.1 g	\$969.00
100286	V31X6	6 kg x 1 g	\$467.00

## Options/Accessories

Part #	Model #	Description	Price
103119	80251216	Hardshell carrying case for FD and Valor	\$118.00
102756	80251147	Sandwich pan, 11 x 5.9 in (280 x 150 mm) for Valor Xtreme	\$76.00
102757	80251148	French fries holder pan for Valor 3000 Xtreme	\$76.00
102758	80251149	Ice cream cone holder for Valor 3000 Xtreme	\$76.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
100292	80250954	Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm)	\$82.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm)	\$62.00



**Standard Features**

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- IP65
- NTEP CC 08-008 models available

**Specifications**

	V31XW301	V31XW3	V31XW6
Part#	100287	-	-
List Price	\$554.00	-	-
<b>NTEP</b> Part#	-	100288	100289
List Price	-	\$554.00	\$554.00
Capacity	300 g	3 kg	6 kg
Resolution	0.1 g	1 g	2 g
Weighing Modes	Pounds, Decimal or Fractional Ounces, Pound/Ounce, Fluid oz (of water), Kilogram, Gram		
Operating Modes	Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity		
Protection Rating	IP65		
Stabilization Time	<3 seconds		
Operating Temperature	32° F to 104° F (0° C to 40° C)		
Pan Size (W x D)	5.8 x 6.2 in (146 x 158 mm)		
Dimensions	(W x D x H) 8.5 x 7.3 x 3 in (218 x 186 x 72 mm)		
Weight (Approx.)	2.9 lb (1.3 kg)		
Est. Ship Weight	10 lb (4.8 kg)		
Calibration	Digital external calibration		
Power	120V AC adapter (9V DC, 0.5A), four 1.5 Volt C batteries (not included)		
Battery Life	50 hours with alkaline cells	120 hours with alkaline cells	
Warranty	One-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		

**Part Number/Price**

Part#	Model#	Description	Price
100287	V31XW301	300 g x 0.1 g	\$554.00
100288	V31XW3	3 kg x 1 g	\$554.00
100289	V31XW6	6 kg x 2 g	\$554.00

**Options/Accessories**

Part#	Model#	Description	Price
103119	80251216	Hardshell carrying case for FD and Valor	\$118.00
102756	80251147	Sandwich pan, 11 in x 5.9 in (280 x 150 mm) for Valor Xtreme	\$76.00
102757	80251148	French fries holder pan for Valor 3000 Xtreme	\$76.00
102758	80251149	Ice cream cone holder for Valor 3000 Xtreme	\$76.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
100292	80250954	Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm)	\$82.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm)	\$62.00
Consult	46001803	AC adapter	\$41.00
156235	46001780	International plug set	\$17.00

Capacity: 3kg-15kg    Readability: 0.5g-2g

## Standard Features

- IPX8 protection rating
- Front and rear dual display, 0.8 in (20.5 mm)
- Removable stainless steel platform cover
- Fast 0.5 second stabilization time
- SmarText™ interface
- Knife-proof keypad
- AC adapter and battery included

APPROVALS



## Specifications

	V22XWE3T	V22XWE6T	V22XWE15T
Part#	102771	102772	102773
List Price	\$518.00	\$518.00	\$518.00
Capacity	3 kg	6 kg	15 kg
Resolution	0.5 g	1 g	2 g
Weigh Units	Kilograms, Pounds, Grams, Ounces, Pound and Ounce		
Operating Modes	Weigh, Checkweigh		
Construction	ABS plastic housing, stainless steel pan		
Protection Rating	IPX8		
Safe Overload	150% of capacity		
Stabilization Time	<1 second		
Operating Temperature	14°F to 104°F (-10°C to 40°C)		
Pan Size	7.5x 9.5 in (242 x 190 mm)		
Dimensions	(W x D x H) 10.1 x 11.3 x 4.9 in (256 x 288 x 124 mm)		
Weight (Approx.)	8.6 lb (3.9 kg)		
Calibration	Digital external calibration		
Power	Universal AC adapter, 12VDC 0.7A internal rechargeable lead acid battery		
Battery Life	50 hours with 1 hour recharge time		
Warranty	One-year Limited Warranty		
Return Policy	OHAUS Standard Policy - restock fee may apply		

^Weighing Chamber

## Part Number/Price

Part #	Model #	Description	Price
102771	V22XWE3T	3 kg x 0.5 g	\$518.00
102772	V22XWE6T	6 kg x 1 g	\$518.00
102773	V22XWE15T	15 kg x 2 g	\$518.00

## Options/Accessories

Part #	Model #	Description	Price
33451	3369-10	Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm)	\$62.00
100292	80250954	Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm)	\$82.00
156237	46001812	Universal AC adapter	\$53.00
156235	46001780	Universal plug set	\$17.00



Compact Precision Scales

**Standard Features**

- Removable stainless steel platform cover
- Mid-profile ABS plastic housing
- Front-mounted leveling device
- Long-lasting internal rechargeable battery (standard)
- Compact footprint
- Fast response time
- Easy to clean

APPROVALS



**Specifications**

	V11P3	V11P6	V11P15	V11P30
Part #	102767	102768	102769	102770
List Price	\$257.00	\$257.00	\$257.00	\$257.00
Capacity	3 kg	6 kg	15 kg	30 kg
Resolution	0.5 g	1 g	2 g	5 g
Decimal Ounce	105 oz x 0.02 oz	210 oz x 0.05 oz	520 oz x 0.1 oz	1058 oz x 0.5 oz
Decimal Pound	6.6 lb x 0.001 lb	13 lb x 0.002 lb	33 lb x 0.01 lb	66 lb x 0.02 lb
Grams	3,000 g x 0.5 g	6,000 g x 1 g	15,000 g x 2 g	30,000 g x 5 g
Operating Modes	Weigh, Accumulate, Checkweigh			
Construction	ABS plastic housing, stainless steel pan			
Stabilization Time	≤3 seconds			
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			
Scale Overload	120% of capacity			
Pan Size (W x D)	9.9 x 7.1 in (250 x 180 mm)			
Dimensions	(W x D x H) 10 x 12 x 4.3 in (250 x 307 x 110 mm)			
Weight (Approx.)	7 lb (3.2 kg)			
Est. Ship Weight	8.8 lb (4.0 kg)			
Power	Universal AC adapter included (9V DC 500 mA); internal rechargeable sealed lead acid battery (included)			
Battery life	80/100 hours (with/without backlight on) with 12-hour recharge time			
Warranty	One-year Limited Warranty			
Return Policy	OHAUS Standard Policy - restock fee may apply			

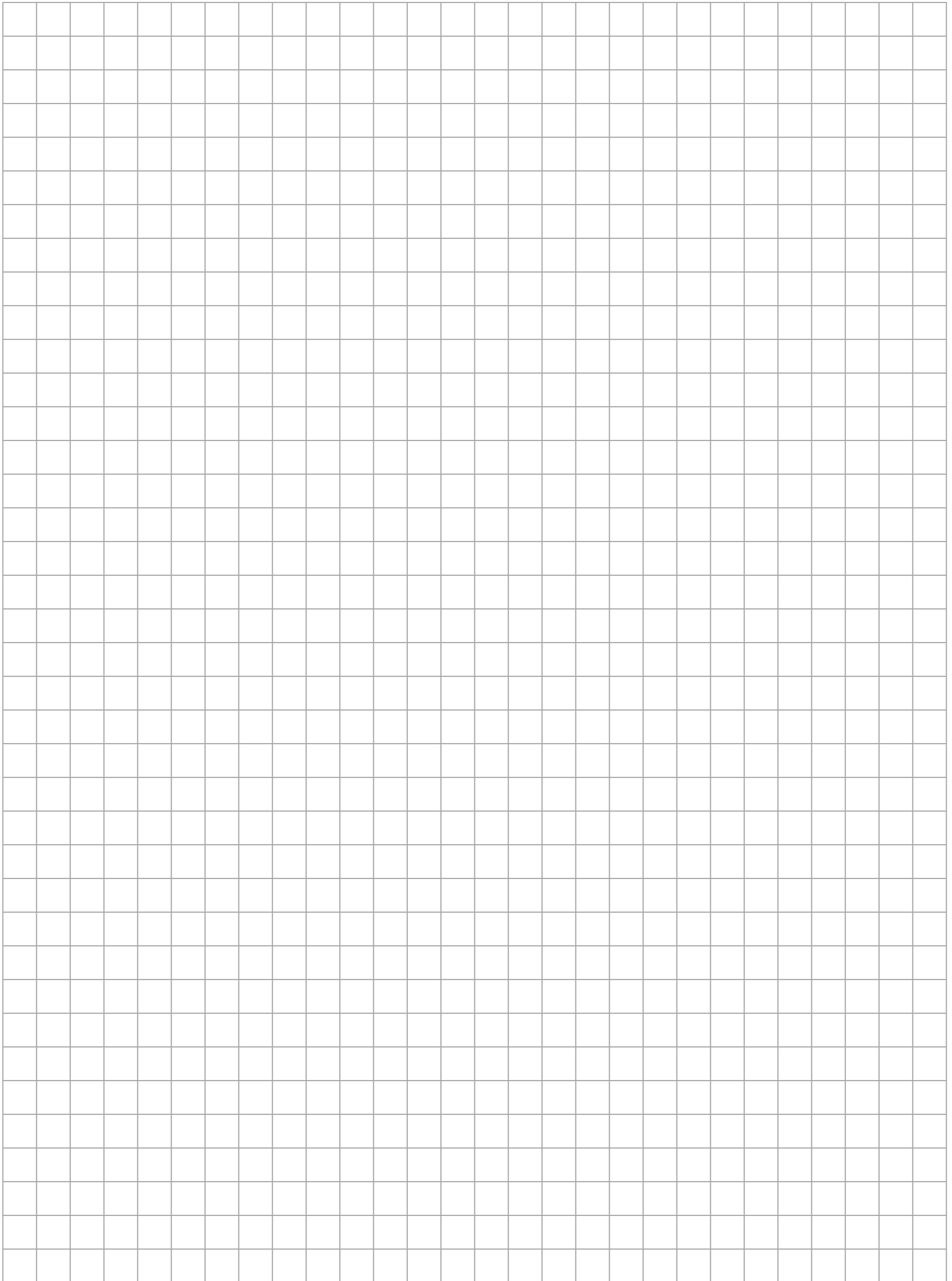
**Part Number/Price**

Part #	Model #	Description	Price
102767	V11P3	3 kg x 0.5 g	\$257.00
102768	V11P6	6 kg x 1 g	\$257.00
102769	V11P15	15 kg x 2 g	\$257.00
102770	V11P30	30 kg x 5 g	\$257.00

^Weighing Chamber

**Options/Accessories**

Part #	Model #	Description	Price
33451	3369-10	Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g	\$37.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm)	\$62.00
100292	80250954	Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm)	\$82.00
156237	46001812	AC adapter	\$53.00
156235	46001780	Universal plug set	\$17.00



# NEW CAPACITIES AVAILABLE

SARTORIUS

**Cubis®**

Ultra-Micro/Micro Balances

Capacity: 1.1 g-5.1 g    Readability: 0.0001 mg-0.005 mg

BALANCES



The modular system offers you a choice of display and control units, weighing modules and draft shields.

## Standard Features

- Module 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
- Q-guide enables tasks and work
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Choice of display
- MSE-Large, 19 mm LCD display segments and easy menu system
- MSU-Monochrome graphic display, positive click on keys to activate functions, Ethernet, and SD card reader
- MSA-TFT color touchscreen, Ethernet, and SD card reader

## Specifications

	2.7S-000-DM^	2.7S-000-DF^	6.6S-000-DM^	6.6S-000-DF^	3.6P-000-DM^	66S-000-DH	66P-000-DH	36S-000-DH	36P-000-DH
<b>MSE*</b> Part #	126044	126046	126048	126049	126052	-	-	-	-
List Price	\$34,615.00	\$35,565.00	\$27,000.00	\$27,950.00	\$20,585.00	-	-	-	-
<b>MSU**</b> Part #	126043	126045	126047	126050	126051	-	-	-	-
List Price	\$35,780.00	\$36,730.00	\$28,165.00	\$29,115.00	\$21,750.00	-	-	-	-
<b>MSA***</b> Part #	126034	126039	126040	126041	126042	186390	186391	186392	186394
List Price	\$36,430.00	\$37,380.00	\$28,815.00	\$29,765.00	\$22,400.00	\$35,465.00	\$32,510.00	\$30,730.00	\$26,565.00
Capacity	2.1 g	2.1 g	5.1 g	5.1 g	1.1 g/2.1 g/3.1 g	61 g	12 g/61 g	31 g	6 g/31 g
Resolution	0.0001 mg	0.0001 mg	0.001 mg	0.001 mg	0.001 mg/ 0.002 mg/0.005 mg	0.001 mg	0.001 mg/0.01 mg	0.001 mg	0.001/0.01 mg
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy Ounces, Hong Kong Tael, Singapore Tael, Grains, Pennyweights, Milligrams, Parts per Pound, Chinese Tael, Momme, Austrian Carats, Tola, Baht, Mesghal								
Operating Modes (*)	Counting, Checkweighing, Percent Weighing, Unit Toggle, Animal Weighing, Net Total, Formulation, Statistics, Calculation, Timer, Backweighing, Density Determination, Memory (300), Diameter Determination								
Repeatability	0.25 µg		0.001 mg		0.003/0.004/0.005 mg	0.0015 mg/ 0.004 mg	0.002 mg/0.010 mg	0.0015 mg/ 0.002 mg	0.0015 mg/ 0.008 mg
Linearity	0.9 µg		4 µg		4 µg	0.020 mg	0.020 mg	0.015 mg	0.015 mg
Stabilization Time	7 seconds		5 seconds		5 seconds	3.5 seconds	3.5 seconds	3.5 seconds	3.5 seconds
Operating Temperature	41°F to 104°F (5°C to 40°C)								
Weighing Chamber (DE)	2.75 in (70 mm) H	0.6 in (15 mm) H	2.75 in (70 mm) H	0.6 in (15 mm) H	2.75 in (70 mm) H	7.13 in (181 mm)	7.13 in (181 mm)	7.13 in (181 mm)	7.13 in (181 mm)
Pan Size	Ø 0.8 in (20 mm)	Ø 1.9 in (50 mm) dia	Ø 1.2 in (30 mm)	Ø 1.9 in (50 mm)	Ø 1.2 in (30 mm)	1.18 in/1.97 in (30 mm/50 mm)	1.18 in/1.97 in (30 mm/50 mm)	1.18 in (30 mm)	1.18 in (30 mm)
Dimensions	192 mm x 323 mm x 88 mm								
Weight (Approx.)	17 lb								
Est. Ship Weight	28 lb				40 lb				
Calibration Weight	2 g		5 g		3 g	50 g (E2)	50 g (E2)	20 g (E2)	20 g (E2)
Power	100 - 240V Power Supply								
Warranty	Two-year Limited Warranty								
Return Policy	Sartorius Standard Policy - restock fee may apply								

^Weighing Chamber

\* MSE large LCD display and easy-to-use menu system

\*\* MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\* MSA TFT color touchscreen, Ethernet and SD card reader

DF-SS manual draft shield for weighing filters

www.ricelake.com | Phone: 800-472-6703

RICE LAKE

## Part Number/Price

Part #	Model #	Description	Price
126044*	MSE2.7S-000-DM	2.1 g x 0.0001 mg	\$34,615.00
126043**	MSU2.7S-000-DM	2.1 g x 0.0001 mg	\$35,780.00
126034***	MSA2.7S-000-DM	2.1 g x 0.0001 mg	\$36,430.00
126046*	MSE2.7S-000-DF	2.1 g x 0.0001 mg	\$35,565.00
126045**	MSU2.7S-000-DF	2.1 g x 0.0001 mg	\$36,730.00
126039***	MSA2.7S-000-DF	2.1 g x 0.0001 mg	\$37,380.00
126048*	MSE6.6S-000-DM	6.1 g x 0.001 mg	\$27,000.00
126047**	MSU6.6S-000-DM	6.1 g x 0.001 mg	\$28,165.00
126040***	MSA6.6S-000-DM	6.1 g x 0.001 mg	\$28,815.00
126049*	MSE6.6S-000-DF	6.1 g x 0.001 mg	\$27,950.00
126050**	MSU6.6S-000-DF	6.1 g x 0.001 mg	\$29,115.00
126041***	MSA6.6S-000-DF	6.1 g x 0.001 mg	\$29,765.00
186390***	MSA66S-000-DH	61 g x 0.001 mg	\$35,465.00
186391***	MSA66P-000-DH	12 g/61 g x 0.001 mg/0.01 mg	\$32,510.00
186392***	MSA36S-000-DH	31 g x 0.001 mg	\$30,730.00
186394***	MSA36P-000-DH	6 g/31 g x 0.001 mg/0.01 mg	\$26,565.00
126052*	MSE3.6P-000-DM	1.1 g/2.1 g/3.1 g x 0.001 mg/0.002 mg/0.005 mg	\$20,585.00
126051**	MSU3.6P-000-DM	1.1 g/2.1 g/3.1 g x 0.001 mg/0.002 mg/0.005 mg	\$21,750.00
126042***	MSA3.6P-000-DM	1.1 g/2.1 g/3.1 g x 0.001 mg/0.002 mg/0.005 mg	\$22,400.00

## Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer with statistics and time/date functions (included cable fits RS-232)	\$1,155.00
31103	6906937	Paper for data printer, 5 pack	\$51.00
31106	6906918	Replacement ribbon for data printer	\$56.00
Consult	IB	Bluetooth® wireless interface (factory installed)	Consult
Consult	IP	Additional RS-232, 9-Pin connection with PS2 port (factory installed)	Consult
152036	-	Multi-range power supply, does not include line cord	\$107.00
156908	6900900	Power cord, 220 V (EU)	\$43.00

\*Large LCD display and easy-to-use menu system

\*\*Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*TFT color touchscreen, Ethernet and SD card reader



## Standard Features

- Module 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
- Q-guide enables tasks and work (MSA display)
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Draft shield
- Choice of display
- MSE-large LCD display and easy menu system
- MSU-monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader, auto leveling feature
- MSA-TFT color touchscreen, Ethernet and SD card reader, auto leveling feature

## Optional Features

- DA motor-driven draft shield
- DI draft shield eliminates electrostatic charges

## Specifications

	225S	225P	125P	324S	224S	324P	124S	524S	524P
<b>MSE*</b> Part#	109776	109777	109778	109779	109780	109781	109782	156269	156270
List Price	\$12,170.00	\$10,455.00	\$7,535.00	\$7,660.00	\$6,830.00	\$6,775.00	\$5,620.00	\$9,275.00	\$7,535.00
<b>MSU**</b> Part#	109783	109786	109788	109794	109790	109791	109792	156267	156268
List Price	\$13,335.00	\$11,620.00	\$8,700.00	\$8,825.00	\$7,995.00	\$7,940.00	\$6,785.00	\$10,440.00	\$8,700.00
<b>MSA***</b> Part#	109795	109796	109797	109798	109799	109800	109801	156265	156266
List Price	\$13,985.00	\$12,270.00	\$9,350.00	\$9,475.00	\$8,645.00	\$8,590.00	\$7,435.00	\$11,090.00	\$9,350.00
Capacity	220 g	60/120/220 g	60/120 g	320 g	220 g	80/160/320 g	120 g	520 g	120/240/520 g
Resolution	0.01 mg	0.01/0.02/0.05 mg	0.01/0.1 mg	0.1 mg	0.1 mg	0.1/0.2/0.5 mg	0.1 mg	0.1 mg	0.1/0.2/0.5 mg
Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommies, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms								
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								
Repeatability	0.025 mg	0.015/0.04 mg	0.015/0.06 mg	0.1 mg	0.07 mg	0.1/0.2/0.4 mg	0.1 mg	0.1 mg	0.1/0.2/0.5 mg
Linearity	0.1 mg	0.15 mg	0.15 mg	0.3 mg	0.2 mg	0.5 mg	0.2 mg	0.4 mg	0.5 mg
Stabilization Time	2 seconds	2 seconds	2 seconds	1 seconds	1 seconds	1 seconds	1 seconds	1 seconds	1 seconds
Operating Temperature	41° F to 104° F (5° C to 40° C)								
Weighing Chamber	(W x D x H) 8 x 8 x 10.2 in (205 x 205 x 261 mm)								
Pan Size(W x D)	3.3 x 3.3 in (85 x 85 mm)								
Dimensions	(W x D x H) 16 x 9.8 x 14.6 in (410 x 249 x 370.4 mm) (with manual draft shield)								
Weight (Approx.)	18 lb								
Est. Ship Weight	31.9 lb				29.7 lb				
Calibration Weight	200 g	200 g	100 g	300 g	200 g	300 g	100 g	500 g	
Power	120V AC adapter auto ranging								
Warranty	Two-year Limited Warranty								
Return Policy	Sartorius Standard Policy - restock fee may apply								

\*MSE large LCD display and easy-to-use menu system

\*\*MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*MSA TFT color touchscreen, Ethernet and SD card reader



## Part Number/Price

Part #	Model #	Description	Price
109776*	MSE225S-100-DU	220 g x 0.01 mg	\$12,170.00
109777*	MSE225P-100-DU	60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg	\$10,455.00
109778*	MSE125P-100-DU	60 g/120 g x 0.01 mg/0.1 mg	\$7,535.00
109779*	MSE324S-100-DU	320 g x 0.1 mg	\$7,660.00
156269	MSE524S-100-DU	520 g x 0.1 mg	\$9,275.00
156270	MSE524P-100-DU	520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg	\$7,535.00
109780*	MSE224S-100-DU	220 g x 0.1 mg	\$6,830.00
109781*	MSE324P-100-DU	80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg	\$6,775.00
109782*	MSE124S-100-DU	120 g x 0.1 mg	\$5,620.00
109783**	MSU225S-100-DU	220 g x 0.01 mg	\$13,335.00
109786**	MSU225P-100-DU	60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg	\$11,620.00
109788**	MSU125P-100-DU	60 g/120 g x 0.01 mg/0.1 mg	\$8,700.00
156267	MSU524S-100-DU	520 g x 0.1 mg	\$10,440.00
156268	MSU524P-100-DU	520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg	\$8,700.00
109794**	MSU324S-100-DU	320 g x 0.1 mg	\$8,825.00
109790**	MSU224S-100-DU	220 g x 0.1 mg	\$7,995.00
109791**	MSU324P-100-DU	80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg	\$7,940.00
109792**	MSU124S-100-DU	120 g x 0.1 mg	\$6,785.00
109795***	MSA225S-100-DU	220 g x 0.01 mg	\$13,985.00
109796***	MSA225P-100-DU	60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg	\$12,270.00
109797***	MSA125P-100-DU	60 g/120 g x 0.01 mg/0.1 mg	\$9,350.00
156265	MSA524S-100-DU	520 g x 0.1 mg	\$11,090.00
156266	MSA524P-100-DU	520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg	\$9,350.00
109798***	MSA324S-100-DU	320 g x 0.1 mg	\$9,475.00
109799***	MSA224S-100-DU	220 g x 0.1 mg	\$8,645.00
109800***	MSA324P-100-DU	80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg	\$8,590.00
109801***	MSA124S-100-DU	120 g x 0.1 mg	\$7,435.00

\*Large LCD display and easy-to-use menu system

\*\*Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*TFT color touchscreen, Ethernet and SD card reader

## 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, 100-240V	\$183.00
156908	6900900	Cord, power 220V EU	\$43.00
Consult	IB	Bluetooth® wireless interface	Consult
Consult	IP	Additional RS-232, nine-pin connection with PS2 port	Consult



The modular system offers you a choice of display and control units, weighing modules and draft shields.

### Standard Features

- Module 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
- Q-guide enables tasks and work (MSA display)
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Draft shield
- Choice of display
- MSE-large 19 mm LCD display segments and easy menu system
- MSU-monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader
- MSA-TFT color touchscreen, Ethernet and SD card reader options

### Optional Features

- Bluetooth® wireless technology

### Specifications

	3203S	2203S	2203P	1203S	5203S	5203P	623S	623P	323S
<b>MSE*</b> Part#	109803	109804	109805	109806	156315	156316	109807	109808	109809
List Price	\$8,305.00	\$8,020.00	\$7,745.00	\$7,005.00	\$9,605.00	\$9,145.00	\$5,435.00	\$4,755.00	\$4,650.00
<b>MSU**</b> Part#	109810	109811	109812	109813	156313	156314	109814	109815	109816
List Price	\$9,470.00	\$9,185.00	\$8,910.00	\$8,170.00	\$10,770.00	\$10,310.00	\$6,600.00	\$5,920.00	\$5,815.00
<b>MSA***</b> Part#	109817	109818	109819	109820	156310	156312	109821	109822	109823
List Price	\$10,120.00	\$9,360.00	\$9,560.00	\$8,820.00	\$11,420.00	\$10,960.00	\$7,250.00	\$6,570.00	\$6,465.00
Capacity	3,200 g	2,200 g	1,010/2,200 g	1,200 g	5,200 g	5,200/2,400/1,200 g	620 g	150/300/620 g	320 g
Resolution	1 mg	1 mg	1/10 mg	1 mg	1 mg	5/2/1 mg	1 mg	1, 2, 5 mg	1 mg
Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommies, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms								
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								
Repeatability	1/6 mg	1 mg	1/6 mg	0.7 mg	1 mg	1 mg	0.7 mg	1/2/4 mg	0.7 mg
Linearity	5 mg	3 mg	5 mg	2 mg	5 mg	5 mg	2 mg	5 mg	2 mg
Stabilization Time	1 second	1 second	1 second	1 second	1 second	1 second	0.8 seconds	0.8 seconds	0.8 seconds
Operating Temperature	41° F to 104° F (5° C to 40° C)								
Weighing Chamber (DE)	(W x D x H) 8 x 8 x 7 in (from pan) (200 x 200 x 179 mm)								
Pan Size(W x D)	5.5 x 5.5 in (140 x 140 mm)								
Dimensions	(W x D x H) 16 x 9.8 x 11 in (410 x 249 x 281.4 mm) (with manual draft shield)								
Weight (Approx.)	17 lb								
Est. Ship Weight	27 lb						25 lb		
Calibration Weight	2,000 g	2,000 g	1,000 g	1,000 g	500 g	500 g	500 g	500 g	200 g
Power	120V AC adapter (auto ranging)								
Warranty	Two-year Limited Warranty								
Return Policy	Sartorius Standard Policy - restock fee may apply								

\* MSE large LCD display and easy-to-use menu system

\*\*MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*MSA TFT color touchscreen, Ethernet and SD card reader

## Part Number/Price

Part #	Model #	Description	Price
109803*	MSE3203S-100-DE	3,200g x 1 mg	\$8,305.00
109804*	MSE2203S-100-DE	2,200g x 1 mg	\$8,020.00
109805*	MSE2203P-100-DE	1,010g/2,200g x 1 mg/10 mg	\$7,745.00
109806*	MSE1203S-100-DE	1,200g x 1 mg	\$7,005.00
156315	MSE5203S-100-DE	5,200g x 0.001g	\$9,605.00
156316	MSE5203P-100-DE	5,200g/2,400g/1,200g x 0.005g/0.002g/0.001g	\$9,145.00
109807*	MSE623S-100-DE	620g x 1 mg	\$5,435.00
109808*	MSE623P-100-DE	150g/300g/620g x 1 mg/2 mg/5 mg	\$4,755.00
109809*	MSE323S-100-DE	320g x 1 mg	\$4,650.00
109810**	MSU3203S-100-DE	3,200g x 1 mg	\$9,470.00
109811**	MSU2203S-100-DE	2,200g x 1 mg	\$9,185.00
109812**	MSU2203P-100-DE	1,010g/2,200g x 1 mg/10 mg	\$8,910.00
109813**	MSU1203S-100-DE	1,200g x 1 mg	\$8,170.00
156313	MSU5203S-100-DE	5,200g x 0.001g	\$10,770.00
156314	MSU5203P-100-DE	5,200g/2,400g/1,200g x 0.005g/0.002g/0.001g	\$10,310.00
109814**	MSU623S-100-DE	620g x 1 mg	\$6,600.00
109815**	MSU623P-100-DE	150g/300g/620g x 1 mg/2 mg/5 mg	\$5,920.00
109816**	MSU323S-100-DE	320g x 1 mg	\$5,815.00
109817***	MSA3203S-100-DE	3,200g x 1 mg	\$10,120.00
109818 ***	MSA2203S-100-DE	2,200g x 1 mg	\$9,835.00
109819 ***	MSA2203P-100-DE	1,010g/2,200g x 1 mg/10 mg	\$9,560.00
109820 ***	MSA1203S-100-DE	1,200g x 1 mg	\$8,820.00
156310	MSA5203S-100-DE	5,200g x 0.001g	\$11,420.00
156312	MSA5203P-100-DE	5,200g/2,400g/1,200g x 0.005g/0.002g/0.001g	\$10,960.00
109821 ***	MSA623S-100-DE	620g x 1 mg	\$7,250.00
109822 ***	MSA623P-100-DE	150g/300g/620g x 1 mg/2 mg/5 mg	\$6,570.00
109823 ***	MSA323S-100-DE	320g x 1 mg	\$6,465.00

\*Large LCD display and easy to use menu system

\*\*Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*TFT color touchscreen, Ethernet and SD card reader

## 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, 100-240V	\$183.00
156908	6900900	Cord, power 220V EU	\$43.00
Consult	IB	Bluetooth® wireless interface (factory installed)	Consult
Consult	IP	Additional RS-232, nine-pin connection with PS2 port (factory installed)	Consult
Consult	DA, DR, DI or DU	Other draft shields available	Consult



The modular system offers you a choice of display and control units, weighing modules and draft shields.

## Standard Features

- Fast stabilization time
- Module 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
- Q-guide enables tasks and work
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Choice of display
- MSE-large LCD display and easy menu system
- MSU-monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader
- MSA-TFT color touchscreen, Ethernet and SD card reader options

## Optional Features

- Bluetooth® wireless technology

## Specifications

	1202S	2202S	4202S	6202P	6202S	8202S	10202S
<b>MSE*</b> Part#	109832	109831	109830	109829	109828	109827	109826
List Price	\$3,475.00	\$3,885.00	\$4,290.00	\$4,445.00	\$4,990.00	\$5,670.00	\$6,605.00
<b>MSU**</b> Part#	109842	109841	109840	109839	109838	109837	109836
List Price	\$4,640.00	\$5,050.00	\$5,455.00	\$5,610.00	\$6,155.00	\$6,835.00	\$7,770.00
<b>MSA***</b> Part#	109852	109851	109850	109849	109848	109847	109846
List Price	\$5,290.00	\$5,700.00	\$6,105.00	\$6,260.00	\$6,805.00	\$7,485.00	\$8,420.00
Capacity	1,200 g	2,200 g	4,200 g	1,500/3,000/6,200 g	6,200 g	8,200 g	10,200 g
Resolution	10 mg	10 mg	10 mg	10/20/50 mg	10 mg	10 mg	10 mg
Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommies, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms						
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						
Repeatability	7 mg	7 mg	7 mg	7 mg/20 mg/1940 mg	7 mg	7 mg	7 mg
Linearity	20 mg	20 mg	20 mg	20 mg	20 mg	20 mg	20 mg
Stabilization Time	0.8 seconds	0.8 seconds	0.8 seconds	1 second	1 second	1 second	1 second
Operating Temperature	41°F to 104°F (5°C to 40°C)						
Pan Size (W x D)	8.1 x 8.1 in (206 x 206 mm)						
Dimensions	(W x D x H) 16 x 9.8 x 3.5 in (410 x 249 x 87.7 mm)						
Weight (Approx.)	16 lb						
Est. Shipping Weight	21 lb						
Calibration Weight	1 kg	2 kg	2 kg	5 kg	5 kg	5 kg	10 kg
Power	120V AC adapter (auto ranging)						
Warranty	Two-year Limited Warranty						
Return Policy	Sartorius Standard Policy - restock fee may apply						

\*MSE large LCD display and easy-to-use menu system

\*\*MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*MSA TFT color touchscreen, Ethernet and SD card reader

## Specifications

	5201S	5202s	8201S	12201S	14202s	14202p	
<b>MSE*</b>	Part#	109835	156322****	109834	109833	156324	156327
	List Price	\$2,840.00	\$5,500.00	\$3,945.00	\$4,390.00	\$8,170.00	\$7,015.00
<b>MSU**</b>	Part#	109845	156321****	109844	109843	156323	156329
	List Price	\$4,005.00	\$6,665.00	\$5,110.00	\$5,555.00	\$9,335.00	\$8,180.00
<b>MSA***</b>	Part#	109855	156318****	109854	109853	156319	156320
	List Price	\$4,655.00	\$7,315.00	\$5,760.00	\$6,205.00	\$9,985.00	\$8,830.00
Capacity	5,200 g	5,200 g	8,200 g	12,200 g	14,200 g	14,200 g/7,000 g/3,500 g	
Resolution	100 mg	0.01 g	100 mg	100 mg	0.01 g	0.05/0.02/0.01 g	
Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommies, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms						
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						
Repeatability	50 mg	0.006 g	50 mg	50 mg	0.01 g	0.01 g/0.02 g/0.01 g	
Linearity	100 mg	0.01 g	100 mg	200 mg	0.03 g	0.05 g	
Stabilization Time	0.8 seconds	1 second	0.8 seconds	0.8 seconds	1 second	1 second	
Operating Temperature	41°F to 104°F (5°C to 40°C)						
Pan Size (W x D)	8.1 x 8.1 in (206 x 206 mm)						
Dimensions	(W x D x H) 16 x 9.8 x 3.5 in (410 x 249 x 87.7 mm)						
Weight (Approx.)	16 lb						
Est. Shipping Weight	21 lb						
Calibration Weight	5 kg	5000 g	5 kg	10 kg	10 kg	10 kg	
Power	120V AC adapter auto ranging						
Warranty	Two-year Limited Warranty						
Return Policy	Sartorius Standard Policy - restock fee may apply						

\*MSE large LCD display and easy-to-use menu system

\*\*MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*MSA TFT color touchscreen, Ethernet and SD card reader

\*\*\*\*DR draft stainless steel shield

## Part Number/Price

Part #	Model #	Description	Price
156324	MSE14202S-000-D0	14,200 g x 0.01 g	\$8,170.00
156327	MSE14202P-000-D0	14,200 g/7,000 g/3,500 g x 0.05 g/0.02 g/0.01 g	\$7,015.00
109826*	MSE10202S-000-D0	10,200 g x 10 mg	\$6,605.00
109827*	MSE8202S-000-D0	8,200 g x 10 mg	\$5,670.00
109828*	MSE6202S-100-D0	6,200 g x 10 mg	\$4,990.00
109829*	MSE6202P-100-D0	1,500 g/3,000 g/6,200 g x 10 mg/20 mg/50 mg	\$4,445.00
156322	MSE5202S-100-DR	5,200 g x 0.01 g	\$5,500.00
109830*	MSE4202S-100-D0	4,200 g x 10 mg	\$4,290.00
109831*	MSE2202S-100-D0	2,200 g x 10 mg	\$3,885.00
109832*	MSE1202S-000-D0	1,200 g x 10 mg	\$3,475.00
109833*	MSE12201S-000-D0	12,200 g x 100 mg	\$4,390.00
109834*	MSE8201S-000-D0	8,200 g x 100 mg	\$3,945.00
109835*	MSE5201S-100-D0	5,200 g x 100 mg	\$2,840.00
156323	MSU14202S-000-D0	14,200 g x 0.01 g	\$9,335.00
156329	MSU14202P-1000-D0	14,200 g/7,000 g/3,500 g x 0.05 g/0.02 g/0.01 g	\$8,180.00
109836**	MSU10202S-000-D0	10,200 g x 10 mg	\$7,770.00
109837**	MSU8202S-000-D0	8,200 g x 10 mg	\$6,835.00
109838**	MSU6202S-100-D0	6,200 g x 10 mg	\$6,155.00
109839**	MSU6202P-100-D0	1,500 g/3,000 g/6,200 g x 10 mg/20 mg/50 mg	\$5,610.00
156321	MSU5202S-100-DR	5,200 g x 0.01 g	\$6,665.00
109840**	MSU4202S-100-D0	4,200 g x 10 mg	\$5,455.00
109841**	MSU2202S-100-D0	2,200 g x 10 mg	\$5,050.00
109842**	MSU1202S-100-D0	1,200 g x 10 mg	\$4,640.00
109843**	MSU12201S-000-D0	12,200 g x 100 mg	\$5,555.00
109844**	MSU8201S-000-D0	8,200 g x 100 mg	\$5,110.00
109845**	MSU5201S-100-D0	5,200 g x 100 mg	\$4,005.00
156319	MSA14202S-000-D0	14,200 g x 0.01 g	\$9,985.00
156320	MSA14202P-000-D0	14,200 g/7,000 g/3,500 g x 0.05 g/0.02 g/0.01 g	\$8,830.00
109846***	MSA10202S-000-D0	10,200 g x 10 mg	\$8,420.00
109847***	MSA8202S-000-D0	8,200 g x 10 mg	\$7,485.00
109848***	MSA6202S-100-D0	6,200 g x 10 mg	\$6,805.00
109849***	MSA6202P-100-D0	1,500 g/3,000 g/6,200 g x 10 mg/20 mg/50 mg	\$6,260.00
156318	MSA5202S-100-DR	5,200 g x 0.01 g	\$7,315.00
109850***	MSA4202S-100-D0	4,200 g x 10 mg	\$6,105.00
109851***	MSA2202S-100-D0	2,200 g x 10 mg	\$5,700.00
109852***	MSA1202S-100-D0	1,200 g x 10 mg	\$5,290.00
109853***	MSA12201S-000-D0	12,200 g x 100 mg	\$6,205.00
109854***	MSA8201S-000-D0	8,200 g x 100 mg	\$5,760.00
109855***	MSA5201S-100-D0	5,200 g x 100 mg	\$4,655.00

\*Large LCD display and easy-to-use menu system

\*\*Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*TFT color touchscreen, Ethernet and SD card reader

## 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, 100-240V	\$183.00
156908	6900900	Cord, power 220V EU	\$43.00
Consult	IB	Bluetooth® wireless interface (factory installed)	Consult
Consult	IP	Additional RS-232, nine-pin connection with PS2 port (factory installed)	Consult





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

## Secura Additional Features

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

## Specifications

Quintix	QUINTIX65-1S <sup>^</sup>	QUINTIX125D-1S <sup>^</sup>	-	-	-
Part Number	170634	170635	-	-	-
List Price	\$5,510.00	\$5,740.00	-	-	-
Secura	-	-	SECURA125-1S <sup>^</sup>	SECURA225D-1S <sup>^</sup>	SECURA324-1S <sup>^</sup>
Part Number	-	-	170636	170380	170637
List Price	-	-	\$6,445.00	\$6,770.00	\$5,135.00
Capacity	60 g	60 g/120 g	60 g/120 g	120 g/220 g	320 g
Readability	0.01 mg	0.01/0.1 mg	0.01/0.1 mg	0.01/0.1 mg	0.1 mg
Repeatability	0.04 mg	0.04/0.07 mg	0.001 g	0.001 g	0.001 g
Linearity ±	0.1 mg	0.1/0.2 mg	0.1 mg	0.1/0.2 mg	0.3 mg
Minimum Weight per USP	N/A	N/A	25 mg	25 mg	160 mg
External Calibration Weight	50 g	100 g	100 g	200 g	300 g
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 and Newton				
Applications	Mass Unit Conversion, Counting, Percent Weighing, Averaging				
Display Type	LCD				
Operating Humidity	Less than 95% RH				
Operating Temperature	41° F to 113° F (5° C to 45° C)				
Stabilization Time (typical)	6 seconds	6/2 seconds	6 seconds	6/2 seconds	2 seconds
Net Weight (kg/lb)	7.8 kg (18 lb)				
Pan Size/Type	80 mm (3.5 in) diameter pan, stainless steel				90 mm (3.5 in) diameter pan, stainless steel
Weighing Chamber Height	218 mm (8.5 in)				
Dimensions (WxDxH)	376 x 214 x 316 mm (14.8 x 8.4 x 12.4 in)				
Power Requirements	12-15V DC, 4.5 W				
AC Power Requirements	AC adapter, 115V-240V				
Frequency	50-60 Hz				
Optional Accessories	Calibration weights, RS-232 interface cable				
Warranty	Two-year Manufacturer Warranty				

<sup>^</sup>Breeze break



### Part Number/Price

Part Number	Model	Description	Price
170634	QUINTIX65-1S	60 g x 0.01 mg	\$5,510.00
170635	QUINTIX125D-1S	60 g/120 g x 0.01 mg/0.1 mg	\$5,740.00
170636	SECURA125-1S	120 g x 0.01 mg	\$6,445.00
170380	SECURA225D-1S	120 g/220 g x 0.01 mg/0.1 mg	\$6,770.00
170637	SECURA324-1S	320 g x 0.1 mg	\$5,135.00

### Options/Accessories

Part #	Model #	Description	Price
155847	YCC03-D09	Data cable, mini USB/RS-232, nine-pin	\$55.00

Secura  
High LevelPractum  
BasicQuintix  
Mid-level

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

## Secura Additional Features

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

## Specifications

Practum	124-1S	224-1S	213-1S	313-1S	-
Part Number	153983	153984	153985	153986	-
List Price	\$2,455.00	\$2,700.00	\$1,400.00	\$1,510.00	-
Quintix	124-1S	224-1S	213-1S	313-1S	513-1S
Part Number	153992	153993	153994	153995	153996
List Price	\$3,480.00	\$3,940.00	\$2,060.00	\$2,200.00	\$2,980.00
Secura	124-1S	224-1S	213-1S	313-1S	513-1S
Part Number	154005	154006	154007	154008	154009
List Price	\$3,935.00	\$4,365.00	\$2,405.00	\$2,620.00	\$3,280.00
Capacity	120 g	220 g	210 g	310 g	510 g
Resolution	0.1 mg	0.1 mg	0.001 g	0.001 g	0.001 g
Repeatability	±0.1 mg	±0.1 mg	0.001 g	0.001 g	0.001 g
Linearity	±0.3 mg (0.2 mg Secura and Quintix)	±0.3 mg (0.2 mg Secura and Quintix)	3 mg (2 mg Secura and Quintix)	3 mg (2 mg Secura and Quintix)	2 mg
External Calibration Weight	100 g	200 g			500 g
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 and Newton				
Applications	Mass Unit Conversion, Counting, Percent Weighing, Averaging				
Display Type	LCD				
Operating Humidity	Less than 95% RH				
Operating Temperature	50° F to 86° F (10° C to 30° C)				
Stabilization Time (typical)	3 seconds				
Net Weight (kg/lb)	4.5 kg (11 lb)				
Pan Size/Type	90 mm (3.5 in) diameter pan, stainless steel		120 mm (4.75 in) diameter pan, stainless steel		
Weighing Chamber Height	209 mm (7.9 in)				
Dimensions (W x D x H)	360 x 216 x 320 mm (14.1 x 8.5 x 12.6 in)				
Power Requirements	10-20V				
AC Power Requirements	AC adapter, 115V-240V				
Frequency	50-60 Hz				
Optional Accessories	Calibration weights, RS-232 interface cable				
Warranty	Two-year Manufacturer Warranty				

**Part Number/Price**

Part Number	Model	Description	Price
153983	Practum 124-1S	120 g x 0.1 mg	\$2,455.00
153992	Quintix 124-1S	120 g x 0.1 mg	\$3,480.00
154005	Secura 124-1S	120 g x 0.1 mg	\$3,935.00
153984	Practum 224-1S	220 g x 0.1 mg	\$2,700.00
153993	Quintix 224-1S	220 g x 0.1 mg	\$3,940.00
154006	Secura 224-1S	220 g x 0.1 mg	\$4,365.00
153985	Practum 213-1S	210 g x 0.001 g	\$1,400.00
153994	Quintix 213-1S	210 g x 0.001 g	\$2,060.00
154007	Secura 213-1S	210 g x 0.001 g	\$2,405.00
153986	Practum 313-1S	310 g x 0.001 g	\$1,510.00
153995	Quintix 313-1S	310 g x 0.001 g	\$2,200.00
154008	Secura 313-1S	310 g x 0.001 g	\$2,620.00
153996	Quintix 513-1S	510 g x 0.001 g	\$2,980.00
154009	Secura 513-1S	510 g x 0.001 g	\$3,280.00

**Options/Accessories**

Part #	Model #	Description	Price
191429	6971790	AC adapter, 110-240V, six power plugs	\$113.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$55.00

Secura  
High Level

### 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 Additional Features

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

### Secura Additional Features

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

### Specifications

Practum	612-1S	1102-1S	2102-1S	-	-	5101-1S	5100-1S
Part Number	153987	153988	153989	-	-	153991	153990
List Price	\$1,095.00	\$1,215.00	\$1,270.00	-	-	\$1,295.00	\$1,000.00
Quintix	612-1S	1102-1S	2102-1S	3102-1S	5102-1S	5101-1S	5100-1S
Part Number	153998	153999	154000	154001	154003	154004	154002
List Price	\$1,740.00	\$1,970.00	\$2,200.00	\$2,435.00	\$3,020.00	\$1,740.00	\$1,390.00
Secura	-	1102-1S	2102-1S	3102-1S	5102-1S	-	-
Part Number	-	154010	154011	154012	154013	-	-
List Price	-	\$2,295.00	\$2,730.00	\$2,950.00	\$3,390.00	-	-
Capacity	610g	1,100g	2,100g	3,100g	5,100g	5,100g	5,100g
Resolution	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	1.0g
Repeatability	±10mg	±10mg	±10mg	±10mg	±10mg	0.1g	1.0g
Linearity	±30mg (±20mg Quintix and Secura)	±30mg (±20mg Quintix and Secura)	±30mg (±20mg Quintix and Secura)	±20mg	±20mg	±0.3g (±0.2g Quintix)	±3.0g (±2.0g Quintix)
External Calibration Weight	500g	1000g	2,000g		5,000g		
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 and Newton						
Applications	Mass Unit Conversion, Counting, Percent Weighing, Averaging						
Display Type	LCD						
Operating Humidity	Less than 95% RH						
Operating Temperature	50° F to 86° F (10° C to 30° C)						
Operating Temperature	41° F to 104° F (5° C to 40° C)						
Stabilization Time (typical)	3 seconds						
Net Weight (kg/lb)	9 lb (4.5kg)						
Pan Size/Type	7 in (180 mm) diameter pan, stainless steel						
Dimensions (W x D x H)	14.1 x 8.5 x 12.6 in (360 x 216 x 320 mm)						
AC Power Requirements	AC adapter, 115V-240V						
Frequency	50-60 Hz						
Warranty	Two-year Limited Warranty						

## Part Number/Price

Part Number	Model	Description	Price
153987	Practum 612-1S	610 g x 0.01 g	\$1,095.00
153998	Quintix 612-1S	610 g x 0.01 g	\$1,740.00
153988	Practum 1102-1S	1,100 g x 0.01 g	\$1,215.00
153999	Quintix 1102-1S	1,100 g x 0.01 g	\$1,970.00
154010	Secura 1102-1S	1,100 g x 0.01 g	\$2,295.00
153989	Practum 2102-1S	2,110 g x 0.01 g	\$1,270.00
154000	Quintix 2102-1S	2,110 g x 0.01 g	\$2,200.00
154011	Secura 2102-1S	2,110 g x 0.01 g	\$2,730.00
154001	Quintix 3102-1S	3,100 g x 0.01 g	\$2,435.00
154012	Secura 3102-1S	3,100 g x 0.01 g	\$2,950.00
154003	Quintix 5102-1S	5,100 g x 0.01 g	\$3,020.00
154013	Secura 5102-1S	5,100 g x 0.01 g	\$3,390.00
153991	Practum 5101-1S	5,100 g x 0.1 g	\$1,295.00
154004	Quintix 5101-1S	5,100 g x 0.1 g	\$1,740.00
153990	Practum 5100-1S	5,100 g x 1.0 g	\$1,000.00
154002	Quintix 5100-1S	5,100 g x 1.0 g	\$1,390.00

## Options/Accessories

Part #	Model #	Description	Price
191429	6971790	AC adapter, 110-240V, six power plugs	\$113.00
155847	YCC03-D09	Adapter cable, USB to RS-232	\$55.00



### 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

	ENTRIS64-1S <sup>^</sup>	ENTRIS124-1S <sup>^</sup>	ENTRIS224-1S <sup>^</sup>	ENTRIS153-1S <sup>^</sup>	ENTRIS323-1S <sup>^</sup>	ENTRIS423-1S <sup>^</sup>
Part#	160679	160680	160681	160682	160683	160684
List Price	\$1,805.00	\$2,160.00	\$2,400.00	\$1,080.00	\$1,265.00	\$1,505.00
Capacity	60g	120g	220g	150g	320g	420g
Readability	0.0001g	0.0001g	0.0001g	0.001g	0.001g	0.001g
Repeatability	±0.0001g	±0.0001g	±0.0001g	±0.001g	±0.001g	±0.001g
Linearity	±0.0002g	±0.0002g	±0.0002g	±0.002g	±0.002g	±0.00g
External Calibration Weight	50g	100g	200g	100g	200g	200g
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					
Applications	Weighing, Density, Percentage, Counting, Mass Unit Conversion					
Display Type	Backlit LCD white, 15 mm digits					
Operating Humidity	15% to 80% for temperatures up to 31° C					
Operating Temperature	50° F to 86° F (10° C to 30° C)					
Stabilization Time (typical)	2.5 seconds			1.3 seconds	1.1 seconds	1.0 seconds
Net Weight (kg/lbs)	5.4 kg (12 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)	5 kg (11 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)
Pan Size/Type	90 mm (3.5 in) diameter pan, stainless steel			115 mm (4.5 in) diameter pan, stainless steel		
Dimensions (W x D x H)	230 x 303 x 330 mm (9.1 x 11.9 x 13 in)			230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in)		
AC Power Requirements	AC adapter, 115V-240V, US plug					
Warranty	Two-year Limited Warranty					

<sup>^</sup>Weighing Chamber

### Specifications

	ENTRIS623-1S <sup>^</sup>	ENTRIS822-1S	ENTRIS2202-1S	ENTRIS3202-1S	ENTRIS4202-1S	ENTRIS-6202-1S
Part#	160685	160686	160687	160688	160689	160690
List Price	\$1,750.00	\$965.00	\$1,140.00	\$1,385.00	\$1,565.00	\$1,805.00
Capacity	620g	820g	2,200g	3,200g	4,200g	6,200g
Readability	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g
Repeatability	±0.001g	±0.01g	±0.01g	±0.01g	±0.01g	±0.01g
Linearity	±0.002g	±0.03g	±0.03g	±0.03g	±0.03g	±0.03g
External Calibration Weight	500g	500g	2,000g	2,000g	2,000g	5,000g
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					
Applications	Weighing, Density, Percentage, Counting, Mass Unit Conversion					
Display Type	Backlit LCD white, 15 mm digits					
Operating Humidity	15% to 80% for temperatures up to 31° C					
Operating Temperature	50° F to 86° F (10° C to 30° C)					
Stabilization Time (typical)	1.0 seconds	1.5 seconds				
Net Weight (kg/lb)	5.4 kg (12 lb)	4.5 kg (9 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)
Pan Size/Type	90 mm (3.5 in) diameter pan, stainless steel	150 mm (5.9 in) pan, stainless steel	(W x D x H) 180 x 180 x 91 mm (7.1 x 7.1 x 3.6 in)			
Dimensions (W x D x H)	230 x 303 x 330 mm (9.1 x 11.9 x 13 in)	230 x 303 x 87 mm (9.1 x 11.9 x 3.4 in)	(W x D x H) 230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in)			
AC Power Requirements	AC adapter, 115V-240V, US plug					
Warranty	Two-year Limited Warranty					

<sup>^</sup>Weighing Chamber

## Specifications

	ENTRIS2201-1S	ENTRIS5201-1S	ENTRIS8201-1S
Part#	160691	160692	160693
List Price	\$1,030.00	\$1,210.00	\$1,320.00
Capacity	2,200 g	5,200 g	8,200 g
Readability	0.1 g	0.1 g	0.1 g
Repeatability	±0.1 g	±0.1 g	±0.1 g
Linearity	±0.3 g	±0.3 g	±0.3 g
External Calibration Weight	2,000 g	5,000 g	5,000 g
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		
Applications	Weighing, Density, Percentage, Counting, Mass Unit Conversion		
Display Type	Backlit LCD white, 15 mm digits		
Operating Humidity	15% to 80% for temperatures up to 31°C		
Operating Temperature	50°F to 86°F (10°C to 30°C)		
Stabilization Time (typical)	1.0 second	1.5 seconds	
Net Weight (kg/lb)	5.4 kg (12 lb)	5.4 kg (12 lb)	5.4 kg (12 lb)
Pan Size/Type	(W x D x H) 180 x 180 x 91 mm (7.1 x 7.1 x 3.6 in)		
Dimensions (W x D x H)	230 x 303 x 330 mm (9.1 x 11.9 x 13 in)	230 x 303 x 87 mm (9.1 x 11.9 x 3.4 in)	230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in)
AC Power Requirements	AC adapter, 115V-240V, US plug		
Warranty	Two-year Limited Warranty		

## Part Number/Price

Part#	Model #	Description	Price
160679	ENTRIS64-1S	60 g x 0.1 mg	\$1,805.00
160680	ENTRIS124-1S	120 g x 0.1 mg	\$2,160.00
160681	ENTRIS224-1S	220 g x 0.1 mg	\$2,400.00
160682	ENTRIS153-1S	150 g x 0.001 g	\$1,080.00
160683	ENTRIS323-1S	320 g x 0.001 g	\$1,265.00
160684	ENTRIS423-1S	420 g x 0.001 g	\$1,505.00
160685	ENTRIS623-1S	620 g x 0.001 g	\$1,750.00
160686	ENTRIS822-1S	820 g x 0.001 g	\$965.00
160687	ENTRIS2202-1S	2,200 g x 0.01 g	\$1,140.00
160688	ENTRIS3202-1S	3,200 g x 0.01 g	\$1,385.00
160689	ENTRIS4202-1S	4,200 g x 0.01 g	\$1,565.00
160690	ENTRIS6202-1S	6,200 g x 0.01 g	\$1,805.00
160691	ENTRIS2201-1S	2,200 g x 0.1 g	\$1,030.00
160692	ENTRIS5201-1S	5,200 g x 0.1 g	\$1,210.00
160693	ENTRIS8201-1S	8,200 g x 0.1 g	\$1,320.00

## Options/Accessories

Part#	Model #	Description	Price
112261	YDP20-OCE	Data printer	\$1,155.00
31103	6906937	Paper rolls, one roll	\$51.00
31106	6906918	Ink ribbon cassette	\$56.00
31071	YRB05Z	Battery pack, external rechargeable	\$650.00
155805	YCC01-USBM2	Data cable RS-232/USB	\$150.00
191429	6971790	AC adapter with interchangeable plugs	\$113.00

**MA35, MA37 and MA160**

Moisture Analyzer Balances



MA37

MA160

**Standard Features**

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

**Specifications**

	MA35	MA37	MA160
Part#	191983	165963	165964
List Price	\$2,445.00	\$3,530.00	\$4,410.00
Capacity (g)	35 g	70 g	200 g
Resolution (g)	0.001 g	0.001 g	0.01 g
Heating Element	Infrared metal heating element		Infrared radiation by an AURI heater, 600 W
Heating Mode	Standard drying		Standard drying, gentle drying
Display Modes for Results	Moisture content in % M and g; dry matter in % S and g; ATRO in % M/S		
Repeatability	For initial sample weight approx >1 ±0.2%; for initial sample weight >5 ±0.05%		
Temperature Range and Settings	40° C to 160° C		
Data Interface	RS-232	Mini USB	Mini USB
Operating Temperature	10° C to 30° C		
Pan Size	90 mm		
Housing Dimensions (W x D x H)	224 x 366 x 191 mm	215 x 400 x 210 mm	215 x 400 x 210 mm
Weight (approx.)	58 kg	6.2 kg	6.2 kg
Calibration Weight (g)	30 g	50 g	200 g
Power	120/230 VAC multi-range adapter		
Warranty	Two-year Limited Warranty		

**Part Number/Price**

Part#	Model#	Description	Price
191983	MA35	35 x 0.001 g	\$2,445.00
165963	MA37	70 x 0.001 g	\$3,530.00
165964	MA160	200 x 0.01 g	\$4,410.00



## Specifications

**Baud Rate:**

9600

**Color:**

Black

**Cable Length:**

74 in (1,880 mm)

**Bluetooth® Cable Length:**

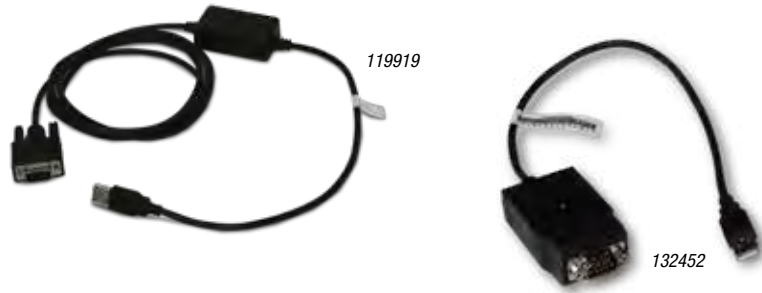
16 in (406 mm)

**Power:**

USB power, no external power supply

**Host:**

PC and MAC compliant

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

## 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 Bluetooth® connection to mobile and tablet devices such as iPad®, Playbook, Android® tablets and smart phones

## Part Number/Price

Part #	Description	Weight	Price
119919	RS-232/USB serial cable	1 lb	\$185.00
132452	RS-232/USB serial cable plus Bluetooth®	1 lb	\$260.00

## Options/Accessories

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	\$10.50
22436	Blunt-end to DB9 female, straight cable	\$60.00
50749	DB9 female to DB9 female	\$55.00
130789	Null model DB9 adapter female to male	\$12.00

# go-between™

Data Capture and Storage



## Specifications

- Baud Rate:**  
9600
- Data Bits:**  
8
- Parity:**  
None
- Power:**  
Requires 5VDC
- Customer Supplied:**  
Power and USB flash drive
- Industrial Enclosure Option:**  
7.5 x 7.5 x 4.5 in (19 x 19 x 12 mm)  
Latch for lock
- Desktop Model:**  
DB Nine-Pin Male
- Warranty:**  
One-year limited warranty

## Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive up to 8GB (not included)
- Transfer data to your PC using the USB flash drive

## Part Number/Price

Part #	Description	Price
153265	go-between board, requires 5 Volts	\$410.00
153266	go-between industrial enclosure, requires 5 Volts	\$500.00
153267	go-between desk enclosure, power supply included	\$500.00

## Options/Accessories

Part #	Description	Price
154797	Adapter, power 5VDC 2A 90-264 VAC, U.S. plug, UL/CUL	\$35.00
125077	USB flash drive, 1 GB	\$20.00
130789	Null model DB9 adapter female to male	\$12.00
119064	Null modem adapter, DB9 F/F	\$10.50
50764	Straight cable, DB9 F/F	\$59.00
66535	Null modem DB9 F/F	\$45.00
22436	DB9 cable to blunt end	\$60.00
15493	Cable four-conductor	\$1.35/ft

Text file examples (actual text will be dependent on transmitted file)	
02:50 PM	11/13/2018
GROSS	58 lb
02:50 PM	11/13/2018
GROSS	68 lb

# Standard Balance Slab

Kasota Stone

## Part Number/Price

Part #	Description	Price
<b>Standard Balance Slab, Kasota Stone</b>		
83779	15 in x 20 in x 3 in, 100 lb	\$450.00
<b>Clean Room Table, Granite</b>		
83780	24 in x 35 in x 32 in, 600 lb	\$2,700.00
<b>Standard Balance Table, Kasota Stone</b>		
83778	24 in x 35 in x 32 in, 700 lb	\$1,200.00
<b>Anti-Vibration Pad</b>		
75263	Anti-vibration pad 4 x 4 1/2 in.-thick	\$15.00



PN 83779

Reduces vibration and shock, ideal where tables will not fit

## Clean Room Table

Granite



PN 83780

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

## Standard Balance Table

Kasota Stone



PN 83778

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

## Anti-Vibration



PN 75263

## Part Number/Price

Part #	Description	Price
33455	Aluminum, 1.5 x 2.0 in (3.8 x 5.1 cm)	\$27.00
33446	Polypropylene, 12 x 6 x 2.75 in (304 x 152 x 70 mm)	\$50.00
33447	Stainless steel, 12 x 6 x 2.75 in (304 x 152 x 70 mm)	\$118.00
33448	Polypropylene Maxi-scoop, 10 in (254 mm) diameter x 2.5 in (70 mm) deep with pouring spout	\$53.00
33454	Black, aluminum 4.0 x 3.5 in (10.2 x 8.9cm)	\$33.00
33451	Polypropylene Maxi-scoop	\$37.00
97250	Stainless steel scoop 11.9 x 7.4 x 1.7 in	\$62.00
100292	Stainless steel scoop 17.2 x 11 x 3.4 in	\$82.00

## Scoops



PN 33447



PN 33455



PN 33451



PN 33454

