

# 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)			
	Weight	Approx. 2 kg			
Display Unit	Dimensions	(W x D x H) 9.3 x 6.0 x 6.1 in (237 x 150 x 155 mm)			
	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))		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
	Messaghal	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		1100g	
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)		100 g		200 g			
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		32.266685 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	
Messaghal	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