

Specifications

	AD-4212B-PT	AD-4212A-PT	FX-300i-PT
Weighing Capacity *1	110 g / 31 g / 5.1 g *2	110 g	320 g
Minimum Weighing Value	0.1 mg / 0.01 mg / 0.001 mg	0.1 mg	1 mg
Linearity	±0.2 mg / ±0.05 mg / ±0.05 mg	±0.3 mg	±2 mg
Repeatability (Standard Deviation)	0.1 mg / 0.05 mg / 0.015 mg	0.15 mg	1 mg
Dimensions	Weighing unit : 80 (W) x 230 (D) x 200 (H) mm Display (with a stand) : 237 (W) x 150 (D) x 155 (H) mm		193 (W) x 262.5 (D) x 190 (H) mm
Standard Accessories *3	<ul style="list-style-type: none"> • Instruction manual • Balance including the weighing pan unit, breeze break, AC adaptor and AC adaptor ID label • Calibration weight with a pair of tweezers • Evaporation trap • Sample cup with a holder (30 mL x 2 / 5 mL x 2) • Liquid thermometer • USB communications kit (USB converter, RS-232C cable, Instruction manual) • WinCT-Pipette (CD-ROM) • Carrying case with a shoulder belt and a key 		
AC Adaptor	Please confirm that the AC adaptor type is correct for your local voltage and power receptacle type.		
Power Consumption	Approx. 11VA (supplied to the AC adaptor)		
Carrying Case Dimensions	470 (W) x 150 (D) x 355 (H) mm		
Weight (With All Accessories in a Case)	Approx. 7.6 kg	Approx. 7.2 kg	Approx. 6.4 kg

*1 When the balance weighing pan is used.

*2 The AD-4212B-PT is equipped with a smart range function. The minimum weighing value will switch to 0.01 mg or 0.1 mg automatically when the mass value exceeds 5.1 g or 31 g respectively but can be reset to 0.001 mg by pressing the RE-ZERO (tare) key.

*3 The standard accessories for the AD-4212B-PT / AD-4212A-PT / FX-300i-PT are different from those for the AD-4212B / AD-4212A / FX-300i.

Pipette Specifications in accordance with ISO8655

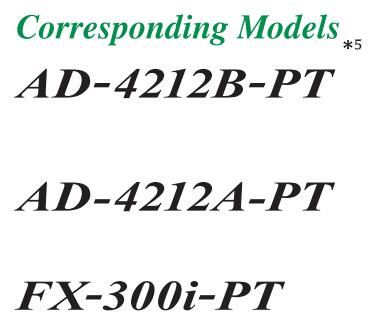
Pipette Nominal Volume*4	ISO8655 Requirements (Gravimetric Method)				
	Maximum Permissible Error		Balance Minimum Weighing Value		
	Accuracy (Systematic Error)	Repeatability (Random Error)			
(μL)	±%	±μL	%	μL	mg
1	5.0	0.05	5	0.05	0.001
2	4.0	0.08	2	0.04	
5	2.5	0.125	1.5	0.075	
10	1.2	0.12	0.8	0.08	
20	1.0	0.2	0.5	0.1	0.01
50	1.0	0.5	0.4	0.2	
100	0.8	0.8	0.3	0.3	
200	0.8	1.6	0.3	0.6	
500	0.8	4.0	0.3	1.5	0.1
1000	0.8	8.0	0.3	3.0	
2000	0.8	16	0.3	6.0	
5000	0.8	40	0.3	15.0	
10000	0.6	60	0.3	30.0	1*6
Daily inspection, simplified verification					

*4 The maximum volume selectable for variable volume pipettes

*5 The AD-4212B-PT can be used for the pipette volume range from 1 μL to 10000 μL.

*6 The minimum weighing value, 1mg, corresponds to approximately 1 μL. If a pipette volume is 1000 μL, a test can be performed with a resolution of 0.1%. If 200 μL, 0.5%.

Note) Make sure that the measurement environment is free from vibration, drafts and air from air conditioners.



Gravimetric Method

The gravimetric method is the most common way of knowing the performance of variable-volume pipettes, in which pipette volume is determined based on the mass value of distilled water dispensed from the pipette.



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A&D Company, Limited

3-23-14 Higashi-Ikebukuro, Toshima-ku,Tokyo 170-0013 JAPAN
Telephone:[81](3) 5391-6132 Fax:[81](3) 5391-6148
http://www.aand.jp

A&D ENGINEERING, INC.

1756 Automation Parkway, San Jose, CA 95131 U.S.A.
Telephone:[1](408) 263-5333 Fax:[1](408) 263-0119

A&D Australasia Pty Ltd.

32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA
Telephone:[61](8) 8301-8100 Fax:[61](8) 8352-7409

A&D INSTRUMENTS LTD.

Unit 24/26 Blacklands Way Abingdon Business Park,
Abingdon, Oxon OX14 1DY UNITED KINGDOM
Telephone:[44](1235) 550420 Fax:[44](1235) 550485

<German Sales Office>

Hamburger Straße 30 D-22926 Ahrensburg GERMANY
Telephone:[49](0) 4102 459230 Fax:[49](0) 4102 459231

A&D KOREA Limited

Manhattan Bldg. 8F, 36-2 Yoido-dong, Youngdeungpo-gu, Seoul, KOREA
Telephone:[82](2) 780-4101 Fax:[82](2) 782-4280

A&D RUS CO, LTD.

Vereyskaya str.17, Moscow, 121357 RUSSIA
Telephone: [7] (495) 937-33-44 Fax: [7] (495) 937-55-66

A&D Instruments India Private Limited

509 Udyog Vihar Phase V
Gurgaon-122 016, Haryana, INDIA
Telephone: [91](124) 471-5555 Fax: [91](124) 471-5599