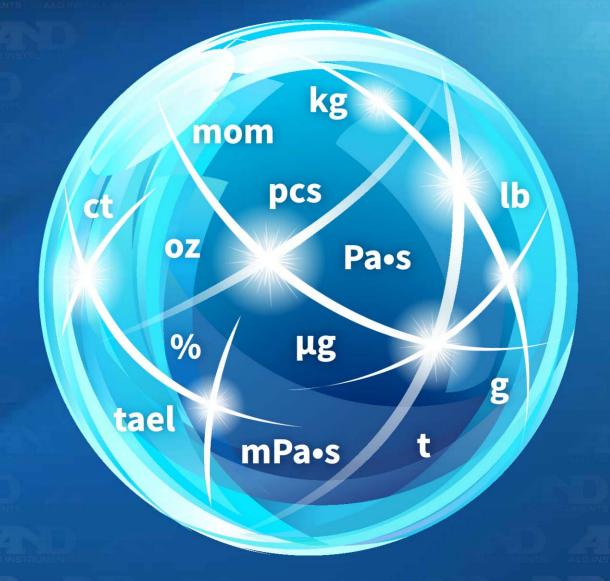


2017

Product Catalogue



Quality, Innovation and Customer Orientation

A & D is a global manufacturer of innovative measuring, monitoring, control and test instruments. Since its founding in 1977, A & D has developed and distributed a multitude of high-quality products through constant innovation, always creating a value for users of such products.

Warranty...

For each product, the warranty given in this catalog is: 4 years (e.g. for products with SHS sensor), 3 years or 1 year. The warranty is 1 year for all options and accessories.

Consultation...

IP69K Dust and Waterproof Withstands heavy-duty washdown

temperature (80 + 5 °C) water from up close (100 to 150 mm)

with high-pressure (8,000 to 10,000 kPa) and high-

(with WinCT-Plus software) Enables acquiring data from and

sending commands to multiple

Liquid Crystal Display with

Liquid Crystal Display

Ensures visibility in a dimly-lit area

Provides a sharp-cut, energy-saving

weighing instruments

We can help you find the best solution for your application. Give us a call.

Key feature index



Includes models that are legal for trade in the member countries of the European Union



COND-

Animal Weighing (Hold) Function Helps measure and record the weight of a moving object such as an animal by averaging fluctuation

Auto Power OFF Function Turns off the display automatically after a period of inactivity to save

Activates the weighing mode display automatically when plugged in

Counting Accuracy Improvement Displays the number of pieces based

on their individual unit weight while automatically optimizing the accuracy of the unit weight

Auto Power ON Function



Accumulation (M+) Function Sums the weighing results and displays the total value



Requires an external weight for



Output
Outputs the manufacturer, model,

serial number, ID number, space for signature, calibration records, etc., for documentation requirements



Calibration with Internal Weight accuracy with just one key press



Intrinsic Safety



IP54 Dust and Waterproof



IP65 Dust and Waterproof Permits no infiltration of dust and withstands water jetting from any direction





IP67 Dust and Waterproof



Rechargeable Battery Operation Works with a built-in rechargeable

rse-backlit Liquid Crystal Display
Provides a bright, high contrast that



Quick USB Interface Transfers weighing data to a PC USB port (one way) requiring no special software installation

Enables magnetic, hot, or contaminated materials to be hanged for weighing or for density measurements

RS-232C Serial Interface

Outputs data to and receives commands from a PC, printer, data

Smart Range Function Automatically switches between the precision and standard ranges, and recovers the full precision

range with a press of the RE-ZERO (tare) key

Data management software

Statistical Calculation Function

Displays and outputs statistical calculation data including number

of data, sum, max, min, range (max – min), mean, standard devia-tion and coefficient of variation

Compact Super Hybrid Sensor Simultaneously achieves precision,

speed and stability, as well as ease of maintenance

Universal Flexi Coms Function

Underhook

Enables editing of serial data output format or printout format

uper Hybrid Sensor

Software

available

• 0000000

OΈ



Vacuum Fluorescent Display visibility even in a dimly-lit area



Counting Function Displays the number of pieces based on their individual unit

recall or output

Comparator Function Compares weight values within set limits and makes pass/fail

Clock and Calendar Function

Adds time and date information to output data





while immersed to a depth of 1 meter for 24 hours







888

Normal Battery Operation Works with off-the-shelf battery



NSF Compliant Meets food protection and sanita-tion requirements as established by NSF International



Percentage Function
Displays the weight value as a percentage of a stored reference mass



stressful on the eves



Disabling Keys

The A&D Story

About A&D Company, Japan

Founded in Japan in 1977 by 13 engineers...

A&D (which stands for Analog & Digital) was founded in Japan in 1977 by a group of 13 engineers led by Hikaru Furukawa. The company began by manufacturing and distributing analog-to-digital converters and multimeters. In 1982 the company entered the electronic balance marketplace by acquiring a Japanese scale and balance company.

Today, although focused on our core weighing business, A&D has expanded into many new business areas all developed around our core competence of analog to digital conversion technology. Other business units include Professional and Home Healthcare, Measurement, Control and Simulation systems for among others the automotive industry. Electron Beam and D/A convertors and a diverse range of measurement instrumentation for, among other things, materials testing, non-destructive testing and noise and vibration analysis.

Since A&D was established we have adopted and implemented a global business strategy. We have developed a global network of subsidiary offices which is still today expanding while at the same time strategic acquisitions have expanded our product portfolio as well as our distribution network still further. A&D currently manufacture products in five countries delivering on-time supply across the globe to our regional subsidiary warehouses.

A&D employs some 3,500 people globally, R&D, design, manufacturing, selling and supporting our products. Our products are tailored to the needs of each local market to ensure conformity with local regulations and the industry standards for the region.

Through our global network of offices we offer our product to market through our dedicated and in many cases

longstanding and loyal distribution partners. These partners offer pre and post sales product support and on-site services to the local customer base, supported of course by our own in-house service and technical support teams.

A&D adhere to standards based quality management systems to ensure both product and process quality.

A&D hold numerous patents which have been applied across the product ranges.

A&D's vision is to always provide "...Clearly a Better Value"

About A&D Instruments Ltd

Established in 1991 as a subsidiary office of A&D Company, Japan, A&D Instruments Ltd is the sales, distribution and support office for Europe. From our UK offices we support a network or dealers and distributors across Europe, primarily supporting our Scientific & Industrial Weighing & Measuring systems and Professional & Home Healthcare products. In addition to our UK head office we also have a German subsidiary office directly supporting one of our biggest single markets for weighing products. As well as supporting our dealers and distributors on-site our German sales representatives also regularly attend exhibitions across the region, all ably supported by our German speaking back office team.

As well as maintaining a fully stocked warehouse delivering short delivery times across Europe, we also offer aftersales service, technical support and maintenance training backup from our UK based technical service workshop.



Product Selector .= Standard o= Optional

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Resolution	Capacity	Model	Page	OIMLEC	Int. Cal.	Ext. Cal.	Features RS-232	Battery	IP Rating	Resolution	Capacity	Model	Page	OIMLEC	Int. Cal.	Ext. Cal.	Features RS-232	Battery	IP Rating
312		211.60	- 40) iii		*	1.000	Ÿ	威	100	-	GV 600	0.5	Ö		<u> </u>	200	Ÿ	긃
0.001mg 0.001mg	5.1g 21g	BM-22 AD-4212B-23	16 36		•		• +USB			0.001g 0.001g	810g 1100g	GX-800 GF-1000	25 24		•		•		
0.001mg	22g	BM-20	17		•		• +USB			0.001g	1100g	GX-1000	25		•		•		
0.01mg	31g	AD-4212B-101	36			•	•			0.001g	1100g	AD-4212A-1000	36			•	•		
0.01mg	42g	GR-202-EC	21	•	•		•			0.001g	6100g	MC-6100	12		•		•		
0.01mg	51g	GH-202-EC	20	•	•		•			0.001g	10.1Kg	MC-10K	12		•		•		
0.01mg	51g	HR-202i	20			•	•			0.01g	30g	EW-150i	30	•		•	0	OPT Rec	
0.01mg	101g	GH-252-EC	20	•	•		•			0.01g	120g	EJ-120	29			•	0	Dry Cell	
0.01mg	110g	AD-4212B-102 BM-252	36 19		•	•	• +USB			0.01g	120g	HT-120 EK-200i	43				•	OPT Rec	
0.01mg 0.1mg	250g 51g	AD-4212C-301	37				TUSE		IP65	0.01g	200g 210g	EJ-200	29				0	Dry Cell	
0.1mg	102g	HR-100A	22			•	•	OPT Rec	11 05	0.01g	300g	EK-300i	31			•	•	OPT Rec	
0.1mg	102g	HR-100AZ	22		•		•	OPT Rec		0.01g	300g	EK-300EP	28			•		Dry Cell	
0.1mg	110g	AD-4212A-100	36			•				0.01g	310g	EJ-300	29			•	0	Dry Cell	
0.1mg	110g	AD-4212B-101	36			•	•			0.01g	400g	EK-410i	31			•	•	OPT Rec	
0.1mg	120g	GH-120-EC	20	•	•		•			0.01g	410g	EJ-410	29			•	0	Dry Cell	
0.1mg	120g	GR-120-EC	21	•	•		•			0.01g	600g	EK-610i-EC	31	•		•		OPT Rec	
0.1mg	152g	HR-150A	22			•	•	OPT Rec		0.01g	610g	EJ-610	29			•	0	Dry Cell	
0.1mg	152g	HR-150AZ	22		•		•	OPT Rec		0.01g	1210g	GF-1200 FX-1200i	24			•	•		
0.1mg 0.1mg	210g 210g	GR-200-EC GR-202-EC	21		•					0.01g	1220g 1220g	FX-1200i FX-1200iWP	26 26			•			IP65
0.1mg	210g	AD-4212B-201	36			•	•			0.01g	1220g	FZ-1200I-EC	26	•	•				11 03
0.1mg	220g	GH-202-EC	20	•	•		•			0.01g	1220g	FZ-1200iWP	26	•	•		•		IP65
0.1mg	220g	GH-200-EC	20	•	•		•			0.01g	2100g	GF-2000	24			•	•		
0.1mg	220g	BM-200	19		•		•+USB			0.01g	2100g	GX-2000-EC	25	•	•		•		
0.1mg	220g	HR-202i	20			•	•			0.01g	2100g	GF-8K2	32			•	•		IP65
0.1mg	250g	GH-252-EC	20	•	•		•			0.01g	2100g	GX-8K2	32		•		•		IP65
0.1mg	252g	HR-250A	22			•	•	OPT Rec		0.01g	2200g	FX-2000i	26			•	•	OPT Rec	
0.1mg	252g	HR-250AZ	22		•		•	OPT Rec		0.01g	2200g	FX-2000iWP	26			•	•	OPT Rec	IP65
0.1mg	62g	HR-251A	22			•	•	OPT Rec		0.01g	2200g	FZ-2000i-EC	26	•	•		•	OPT Rec	IDCE
0.1mg 0.1mg	62g 310g	HR-251AZ GR-300-EC	22				•	OPT Rec		0.01g	2200g 3100g	FZ-2000iWP-EC GF-3000	26 24				0		IP65
0.1mg	310g	AD-4212B-301	36			•	•			0.01g	3200g	FX-3000i	26				•	OPT Rec	
0.1mg	320g	GH-300-EC	20	•	•		•			0.01g	3200g	FX-3000iWP-EC	26			•	•	OPT Rec	IP65
0.1mg	320g	BM-300	19		•		• +USB			0.01g	3200g	FZ-3000i-EC	26	•	•		•	OPT Rec	
0.1mg	320g	HR-300i	20			•	•			0.01g	3200g	FZ-3000iWP-EC	26	•	•		•	OPT Rec	IP65
0.1mg	520g	BM-500	19		•		•+USB			0.01g	3200g	AD-4212C-3100	37			•			IP65
0.1mg	1100g	MC-1000	12		•		0			0.01g	3200g	AD-4212C-3000	37			•	•		IP65
0.001g	252g	HR-251A	22			•	•	OPT Rec		0.01g	4100g	GX-4000-EC	25	•	•		•	ALLE UTT	
0.001g	252g	HR-251AZ	22		•		0	OPT Rec Dry Cell		0.01g	5200g	FX-5000i	26		•	•	•	OPT Rec	
0.001g 0.001g	120g 122g	EJ-123 FX-120i	29			•	0	OPT Rec		0.01g 0.01g	5200g 6100g	FZ-5000i GF-6100	24		•			OPT Rec	
0.001g	122g	FX-120iWP	26			•		OPT Rec	IP65	0.01g	6100g	GX-6100-EC	25	•	•				
0.001g	122g	FZ-120i-EC	26	•	•		•	OPT Rec		0.01g	6200g	AD-4212C-6000	37			•	•		IP65
0.001g	122g	FZ-120iWP-EC	26	•	•		•	OPT Rec	IP65	0.01g	8100g	GF-8K	32			•			IP65
0.001g	210g	GF-200	24			•				0.01g	8100g	GX-8K	32		•		•		IP65
0.001g	210g	GX-200-EC	25	•	•		•			0.01g	10.1Kg	GF-10K	32			•	•		IP65
0.001g	210g	AD-4212A-200	36			•	•			0.01g	10.1Kg	GX-10K	32		•		•		IP65
0.001g	220g	FX-200i	26			•	•	OPT Rec	iner	0.01g	31Kg	MC-30K	12		•		•	ADT N	
0.001g	220g	FX-200iWP	26	•		•	0	OPT Rec	IP65	0.02g	60g	EW-150i (inc EC) FC-500Si	30	•		•	0+0	OPT Rec	
0.001g 0.001g	220g 220g	FZ-200i-EC FZ-120iWP-EC	26 26				•	OPT Rec	ID65	0.02g 0.05g	500g 150g	EW-150i (inc EC)	44 30	•		•	•	OPT Rec	
0.001g	310g	EJ-303	29			•	0	Dry Cell	11-03	0.05g	500g	FC-500i	44			•	0+0	OPT Rec	
0.001g	310g	GF-300	24			•	•			0.1g	150g	HJ-150				•		Dry Cell	
0.001g	320g	FX-300i	26			•	•	OPT Rec		0.1g	200g	HL-200i	43			•		Dry Cell	
0.001g	320g	FX-300iWP	26			•		OPT Rec	IP65	0.1g	300g	EW-1500i-EC	30	•		•	•	OPT Rec	
0.001g	320g	FZ-300i-EC	26	•	•		•	OPT Rec		0.1g	300g	HL-300WP	52			•		Dry Cell	
0.001g	320g	FZ-300iWP	26	•	•		•	OPT Rec	IP65	0.1g	310g	HT-300	43			•		Dry Cell	
0.001g	320g	AD-4212C-301	37			•	0		IP65	0.1g	510g	HT-500	43			•	_	Dry Cell	
0.001g	320g	AD-4212C-300	37			•	0		IP65	0.1g	1000g	FC-1000i	44			•	0+0	OPT Rec	
0.001g	410g	GX-400-EC	25	•	•	_	0		IDCE	0.1g	1200g	EK-1200i	31			•	0	OPT Rec	
0.001g 0.001g	510g 520g	AD-4212C-3100 FX-500i	37 26					OPT Rec	IP65	0.1g 0.1g	1500g 2000g	EJ-1500 EK-2000i	29 31			•	0	Dry Cell OPT Rec	
0.001g	520g 520g	FZ-500i	26		•		•	OPT Rec		0.1g	2000g 2100g	EJ-2000	29			•	0	Dry Cell	
0.001g	610g	GF-600	24			•	0			0.1g	3000g	EK-3000i	31			•	•	OPT Rec	
0.001g	610g	GX-600-EC	25	•	•		0			0.1g	3000g	EK-30KL	42			•	•	OPT Rec	
0.001g	610g	AD-4212A-600	36			•	•			0.1g	3000g	EK-3000EP	28			•		Dry Cell	
0.001g	620g	AD-4212C-600	37			•	•		IP65	0.1g	3100g	EJ-3000	29			•	0	Dry Cell	
0.001g	810g	GF-800	24			•				0.1g	4000g	EK-4100i	31			•		OPT Rec	

Product Selector .= Standard o= Optional

							F										-		
Resolution	Capacity	Model	Page	OIMLEC	Int. Cal.	Ext. Cal.	Features RS-232	Battery	IP Rating	Resolution	Capacity	Model	Page	OIMLEC	Int. Cal.	Ext. Cal.	Features RS-232	Battery	IP Rating
0.1g	4100g	EJ-4000	29			•	0	Dry Cell		1g	101Kg	GP-100K-EC	35	•	•				IP65
0.1g	6000g	EK-6100i-EC	31	•		•	•	OPT Rec		1g	101Kg	GP-100KS	35		•		•		IP65
0.1g	6100g	EJ-6100	29			•	0	Dry Cell		2g	2000g	SJ-2000-EC	42	•		•		Dry Cell	
0.1g	6100g	GF-6000	24			•	•			2g	5000g	SJ-5000HS	42			•		Dry Cell	
0.1g	6100g	GX-6000-EC	25	•	•		•			2g	5000g	SK-5000WP-EC	52	•		•		Dry Cell	IP65
0.1g	6100g	GF-32K	32			•	•		IP65	2g	6000g	EW-12Ki-EC	30	•		•	•	OPT Rec	
0.1g	6100g	GX-32K	32		•		•		IP65	2g	6000g	FS-6Ki-EC	50	•		•	0	OPT Rec	IP65
0.1g	6100g	GP-32K-EC	35	•	•		•		IP65	2g	6000g	SW-6KS-EC	46	•		•	0	OPT Rec	IP69K
0.1g	6100g	GP-32KS GF-8000	35 24		•		•		IP65	2g	6000g	SJ-6000WP-EC	51 51	•		•		Dry Cell	IP67
0.1g 0.1g	8100g 8100g	GX-8000-EC	25							2g 2g	6000g 15Kg	SJ-15KWP-EC HC-15Ki	45				0	Dry Cell OPT Rec	IP67
0.1g	8100g 8100g	GF-8K2	32						IP65	2g 2g	20Kg	FC-20Ki	44				0+0	OPT Rec	
0.1g	8100g	GX-8K2	32		•		•		IP65	2g	30Kg	EM-30KAM	41			•		OPT Rec	
0.1g	12Kg	GP-12K-EC	35	•	•		•		IP65	2g	30Kg	FG-30KBM	40			•	0	Dry Cell	
0.1g	12Kg	GF-12K	32			•	•		IP65	2g	30Kg	FS-30Ki	50			•	0	OPT Rec	IP65
0.1g	12Kg	GX-12K	32		•		•		IP65	2g	30Kg	SW-30KM	46			•	0	OPT Rec	IP69K
0.1g	15Kg	EK-15KL	42			•	•	OPT Rec		5g	5000g	SJ-5000-EC	42	•		•		Dry Cell	
0.1g	21Kg	GF-20K	32				•		IP65	5g	10Kg	SK-10KWP-EC	52	•		•		Dry Cell	IP65
0.1g	21Kg	GX-20K	32		•		•		IP65	5g	12kg	EW-12Ki-EC	30	•		•	•	OPT Rec	
0.1g	21Kg	GP-20K-EC	35	•	•		•		IP65	5g	12Kg	SJ-12KHS	42			•		Dry Cell	
0.1g	31Kg	GF-30K	32			•	•		IP65	5g	15Kg	FS-15Ki-EC	50	•		•	0	OPT Rec	IP65
0.1g	31Kg	GX-30K	32		•		•		IP65	5g	15Kg	SW-15K-EC	46	•		•	0	OPT Rec	IP69K
0.1g	31Kg	GP-30K-EC	35	•	•		•		IP65	5g	15Kg	SJ-15KWP-EC	51	•		•		Dry Cell	IP67
0.1g	31Kg	GP-30KS	35		•		•		IP65	5g	15Kg	SJ-30KWP-EC	51	•		•	~	Dry Cell	IP67
0.1g	61Kg	GP-61K	35		•		•		IP65	5g	30kg	HC-30Ki	45			•	0	OPT Rec	IDCO
0.1g	61Kg	GP-61KS	35 12						IP65	5g	30Kg	SE-30KAM	49			-	0	Dry Cell	IP68
0.1g 0.2g	101Kg 600g	MC-100KS EW-1500i-EC	30				-	OPT Rec		5g	30Kg 50Kg	SC-30KAM FC-50Ki	49				0+0	OPT Rec	11108
0.2g	2000g	FC-2000i	44			•	0+0	OPT Rec		5g 5g	60Kg	EM-60KAM	41					OPT Rec	
0.2g	5000g	FC-5000Si	44			•	0+0	OPT Rec		5g	60Kg	EM-60KAL	41			•	•	OPT Rec	
0.5g	1000g	SJ-1000HS	42			•		Dry Cell		5g	60Kg	FG-60KBM	40	•		•	0	Dry Cell	
0.5g	1000g	HL-1000WP	52			•		Dry Cell	IP65	5g	60Kg	SW-60KM	46			•	0	OPT Rec	IP69K
0.5g	1000g	SK-1000WP-EC	52	•		•		Dry Cell	IP65	5g	60Kg	SW-60KL	46			•	0	OPT Rec	IP69K
0.5g	1500g	EW-1500i-EC	30	•		•	•	OPT Rec		10g	10Kg	SJ-12K-EC	42	•		•		Dry Cell	
0.5g	1500g	SJ-3000WP-EC	51	•		•		Dry Cell	IP67	10g	20Kg	SJ-20KHS	42			•		Dry Cell	
0.5g	3000g	НС-ЗКі	45			•	•	OPT Rec		10g	20Kg	SK-20KWP-EC	52	•		•		Dry Cell	IP65
0.5g	5000g	FC-5000i	44			•	0+0	OPT Rec		10g	30Kg	FG-30KBM-EC	40	•		•	0	Dry Cell	
0.5g	6000g	FS-6Ki	50			•	0	OPT Rec	IP65	10g	30Kg	FS-30Ki-EC	50	•		•	0	OPT Rec	IP65
0.5g	6000g	SW-6KS	46			•	0	OPT Rec	IP69K	10g	30Kg	SW-30KM-EC	46	•		•	0	OPT Rec	IP69K
0.5g	41Kg	GP-40K	35		•		•	and and	IP65	10g	30Kg	SJ-30KWP-EC	51	•		•		Dry Cell	IP67
1g	1000g	SJ-1000-EC	42	•		•		Dry Cell		10g	60Kg	SE-60KAM	49			•	0	Dry Cell	IP68
1g	2000g	SJ-2000HS	42			-		Dry Cell		10g	60Kg	SC-60KAM	49			•	0	Dry Cell	IP68
1g	2000g 2000g	HL-2Ki SK-2000WP-EC	43 52	•				Dry Cell Dry Cell	IP65	10g 10g	60Kg 60Kg	SE-60KAL SC-60KAL	49 49				0	Dry Cell Dry Cell	IP68 IP68
1g 1g	3000g	EW-12Ki-EC	30	•		•		OPT Rec	1103	10g	101Kg	GP-102K-EC	35				•	Dry Cell	IP65
1g	3000g	HL-3000WP-EC	52			•		Dry Cell	IP65	10g	150Kg	EM-150KAL	41			•	•	OPT Rec	05
1g	3000g	HL-3000LWP-EC	52			•		Dry Cell	IP65	10g	150kg	FG-150KAL	40	•		•	0	Dry Cell	
1g	3000g	SJ-3000WP-EC	51	•		•		Dry Cell		10g	150Kg	SW-150KM	46			•	0	OPT Rec	IP69K
1g	3000g	SJ-6000WP-EC	51	•		•		Dry Cell		10g	150kg	SW-150KL	46			•	0	OPT Rec	IP69K
1g	3100g	HT-3000	43			•		Dry Cell		20g	12Kg	SJ-12K-EC	42	•		•		Dry Cell	
1g	5100g	HT-5000	43			•		Dry Cell		20g	20Kg	SJ-20K-EC	42	•		•		Dry Cell	
1g	5000g	SJ-5001HS	42			•		Dry Cell		20g	20Kg	SJ-30K-EC	42	•		•		Dry Cell	
1g	5000g	SK-5001WP	52			•		Dry Cell	IP65	20g	30Kg	SK-30KWP	52			•		Dry Cell	IP65
1g	6000g	HC-6Ki	45			•	0	OPT Rec		20g	30Kg	SJ-30KHS	42			•		Dry Cell	
1g	6000g	EK-6000i	31			•	•	OPT Rec		20g	60Kg	SW-60KM-EC	46	•		•	0	OPT Rec	IP69K
1g	10Kg	FC-10Ki	44			•	0+0	OPT Rec		20g	60Kg	SW-60KL-EC	46	•		•	0	OPT Rec	IP69K
1g	12Kg	EK-12Ki	31			•	Y	OPT Rec		20g	60Kg	SE-60KAM-EC	49	•		•	0	Dry Cell	IP68
1g	12Kg	EK-12KEP	28			•	-	Dry Cell		20g	60Kg	SC-60KAM-EC	49	•		•	0	Dry Cell	IP68
1g	15Kg	FS-15Ki	50			•	0	OPT Rec	IP65	20g	60Kg	SE-60KAL-EC	49	•		•	0	Dry Cell	IP68
1g	15Kg	SW-15KS	46				0	OPT Rec	IP69K	20g	60Kg	SC-60KAL-EC	49	•		•	0	Dry Cell	IP68
1g	15Kg	SW-15KM	46			•	0	OPT Rec	IP69K	20g	150Kg	SW-150KAM	46			•	0	OPT Rec	
1g	30Kg	EK-30KL	42					OPT Rec	IDCC	20g	150kg	SW-150KAL	46			•	0	OPT Rec	IP69K
1g	31Kg	GF-32K	32		•	•	•		IP65	50g	30Kg	SJ-30K-EC	42	•		•	0	Dry Cell	
1g	31Kg 31Kg	GX-32K GP-32K-EC	32 35	•	•		•		IP65	50g 50g	150Kg 150Kg	FG-150KAL-EC SW-150KM-EC	40			•	0	Dry Cell OPT Rec	IP69K
1g 1g	31Kg	GP-32KS	35		•		•		IP65	50g	150Kg	SW-150KM-EC SW-150KL-EC	46			•	0	OPT Rec	IP69K
1g	61Kg	GP-60K-EC	35	•	•		•		IP65	50g	150Kg	SE-150KAL-EC	49	•		•	0	Dry Cell	
1g	61Kg	GP-60KS	35		•		•		IP65	50g	150Kg	SC-150KAL-EC	49	•			0	Dry Cell	
1g	61Kg	GP-102K-EC	35	•	•		•		IP65	0				11				,	

Laboratory Solutions

Table of Contents

Weighing Terminals

,		0 0	
 RV Tuning Fork Vibro Rheometer 	04	 AD-4401A-EC Batching/Weighing Indicator 	54
 SV Vibro Viscometers 	06	 AD-4402-EC Multi Functional Weighing Indicator 	54
 MS-70/MX-50/MF-50/ML-50 Moisture Analyzers 	08	 AD-4404 Checkweighing Indicator 	55
 MPA Series Single Channel Electronic Pipettes 	10	 AD-4430B, AD-4404B/C Ultra Compact Weighing Module 	56
 AD-4212A-PT, AD-4212B-PT, FX-300i-PT Pipette Accuracy Testers 	11	 AD-4530 Digital Indicator for Strain Gauge Sensors 	56
AD-1690 Leak Tester	11	 AD-4531B Multifunctional Digital Indicator 	56
 MC Mass Comparators 	12	 AD-4532B Indicator 	57
		 AD-4408A/C-EC Indicator 	57
Laboratory Weighing		 AD-4410 High Speed Weighing Indicator 	58
		 AD-4329-EC Multi Interval Indicator 	58
BM Micro-Balances BM-20, BM-22	16	• AD-4405-EC	59
A&D-MEET A&D Measurement Environment	••	• AD-4406-EC	59
Evaluation Tool	18	• AD-4407-EC	59
BM Analytical Models BM-252, -200, -300, -500	19	 FS-D IP65 Indicator with 3-Level Comparator 	60
GH/HR-i Analytical Balances	20	 SW-D -IP69K IP69K Indicator with 5-Level Comparator 	60
GR Analytical Balances	21		
HR-A/HR-AZ Analytical Balances	22	Accessories	
• GX/GF Precision Balances	24		5500
• FX-i & FX-i-WP, FZ-i & FZ-i-WP Precision Balances	26	AD-8527 Quick USB Adapter	62
EK-EP Intrinsically Safe Compact Balances Salar	28	AD-1688 Weighing Data Logger	62
EJ Compact Scales	29	AD-1687 Weighing Environment Logger	62
• EK/W-i Compact Balances	30	AD-1641 Air Flow and Environmental Logger	62
GX-K/GF-K Industrial Precision Balances	32	AD-1683 Static Eliminator	63
GP Industrial Precision Balances	34	AD-1684 Electrostatic Field Meter	63
AD-4212A, AD-4212B High Speed, Analytical Precision	36	AD-8526 RS-232 Ethernet Converter	63
AD-4212C High Speed and Accuracy	37	 AD-1682 Rechargeable Portable Power Supply 	63
 AD-4212D Analytical Weighing Sensor 	38	 AD-8922A Remote Controller 	64
		AD-8920A Remote Display	64
Industrial Weighing		 ADI-CL130 Comparator Lights 	64
FG Platform Scales	40	AD-8121B Dot-Matrix Printer	64
EM Platform Scales	40	MCP-1000 Thermal Printers	64
SJ Digital Scales	41 42	WinCT Software	65
EK-L Precision Bench Scales	42	WinCT-Plus Software	65
HT Compact Scales	43		
HL-i Compact Scales FC i/FC Si High Porformance Counting Scales	43		
• FC-i/FC-Si High-Performance Counting Scales	44 45		
 HC-i Counting Scales SW Platform Scales - IP69K Super Washdown 	45 46		
CERCA CAMPAGE A CONTRACTAGE AND ARC LED	939960		
 SB/SB-SW Platform Scales SC/SE Platform Scales - IP68 	47 48		
FS-i Checkweighing IP65 Scales	48 50		
SJ-WP IP67 Soak & Wash	50 51		
SJ-WP 1P67 Soak & Wash HT-CL Compact Checkweighing Scales	51 51		
SK-WP IP65 Bench Scales	51 52		
HL-WP IP65 Bench Scales	52 52		
• nt-wr iros bench scales	52		



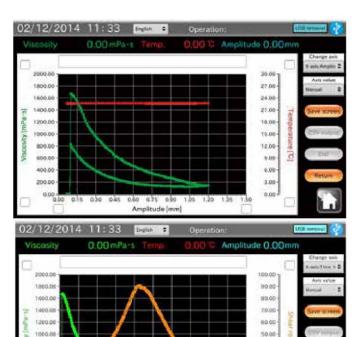
Laboratory Solutions

RV Tuning Fork Vibro Rheometer



RV-10000A

20.00 20.00 10.00



- Wide measurement range from 0.3 mPa.s 25,000 mPa.s
- Simultaneous measurement of temperature and viscosity
- · High accuracy of 1% of the measurement value
- · Quick measurement in only 20 seconds
- Low thermal capacity of the sensor plates
- · Adjustable vibration amplitude to allow changing the shear rate
- Measurement of liquids in motion
- · Easy calibration by the user
- The sensor plates are easy to clean
- LCD Display with 7-inch, colour touch-panel (RV-A)
- Can automatically change the amplitude of the sensor plates, and take data as programmed by the user (RV-A)
- · Displays graphs of measurement data in real time
- Changes in the viscosity are shown as a function of temperature, time, and/or shear rate*
- The measurement data can be exported in CSV format or as graph screens as JPEG images on a USB flash drive
- * The shear rate shown by the controller is a root-mean-square value and is calculated assuming that the sample is a Newtonian fluid.



RV Tuning Fork Vibro Rheometer

RV-10000/A



Two thin sensor plates arranged like a tuning fork, and electromagnetically driven, vibrate at a frequency of 30Hz in the sample liquid.

Viscosity is then calculated based on the proportional relationship between the viscous resistance of the sample fluid and the amount of electric current required to drive and maintain the sensor plates at constant vibration amplitude.

The sensor plate amplitude of the RV-10000/A can be altered between the minimum of 0.07 mm and the maximum of 1.2 mm (peak to peak), while the frequency is kept at 30Hz, which will cause a variation in shear rate.

This allows the user to easily quantify the viscous behaviours of non-Newtonian fluids in response to different shear rates.

A temperature sensor (0 to 160 $^{\circ}$ C) located between the sensor panels enables to capture the measuring temperature at the same place during the measurement.

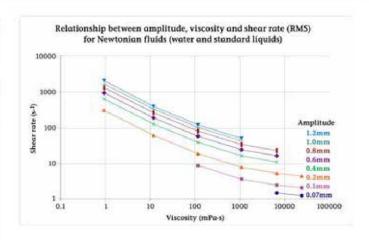
In addition, the sample may be placed in the supplied water jacket with a commercially available temperature control tank, to control the temperature (between 0 and 100 °C) of the sample fluid in order to measure the viscosity at a constant temperature or to see how the viscosity varies with changing temperature.

WinCT - Viscosity (supplied) is software for automatic transfer of the measurement data (temperature and viscosity) to allow further processing. The measurement results can be graphically displayed in real time or can be stored as a "CSV file" for future analysis.

Sensor plates (close up)

Model	Measurement Range	Units	
RV-10000	0.3 — 25000 mPa·s	mPa·s, Pa·s, cP, P	
RV-10000A	0.3 — 25000 mPa·s	mPa·s, Pa·s, cP, P	

Options & Accessories for RV-10000 and RV-10000A	Model
Sample cup, 35-45ml, polycarbonate (pack of 10)	AX-SV-33
Sample cup, 10ml, with cover, polycarbonate (pack of 10)	AX-SV-34
Sample cup, 13ml, glass	AX-SV-35
Positioning stopper	AX-SV-36
Water jacket (1 water jacket, 4 x 10ml-cups with cover)	AX-SV-37
Storage container, 60ml, glass (pack of 10)	AX-SV-38
Storage container 120ml, polycarbonate (pack of 10)	AX-SV-39
Analog voltage output (0-1V)	AX-SV-42
5m display extension cable	AX-SV-43
Cup set:	AX-SV-54
5 x 45ml sample cup, polycarbonate	
5 x 10ml sample cup, polycarbonate, 5 x cover for 10ml sample	cup
2 x 13ml sample cup, glass, 1 x holder (stainless steel) for 13ml s	sample cup
1 x Water jacket, polycarbonate	



SV Vibro Viscometers



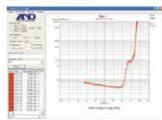
SV-10/100

Specifications	SV-10	SV-100	SV-1A			
Measurement method	Sine-wave Vibro	Viscometer using method (30Hz	tuning fork vibration			
Measurement range	0.3~10000 mPa.s	1000~100000 mPa.s	0.3~1000 mPa.s			
Units	mPa.s, Pa.s, cP, P	Pa.s, P	mPa.s, Pa.s, cP, P			
Accuracy		peatability of 1% of the displayed value (S.D., 20~30°C, no condensation)				
Sample size	10ml~	10ml~	2ml~			
Temperature range	0~160°C / precision 0.1°C					
Display	Vacuum Fluorescent Display					
Power supply	AC adapter (approx.14VA)					

WinCT-Viscosity Software

The module RsVisco was developed for the transmission of real-time viscosity and temperature measurement results from the SV series to a PC. The results are displayed in a graph format with scaling conversion and logarithm display functions available. The user can save the measurement data as a "CSV" file and open it using RsVisco or MS-Excel. The module RsKey transfers measurements directly into an application such as MS-Excel.

RsCom sends commands and can be used for remote control of the viscometer.



Characterization of change of state, log display - viscosity vs. temperature

- Wide measurement range:
 0.3 10,000mPa.s for SV-10,
 and 1,000 100,000mPa.s for SV-100
- Measurement of very low viscosities (down to 1/3 of water viscosity!)
- Temperature measurement from 0 to 160° C
- Fast measurements: 1st result within 15 seconds, and refresh in real time
- Possible continuous measurements in order to characterize changes of state
- High precision with a repeatability of ±1% of displayed value
- Small size sample: cups of 35ml, 13ml, 10ml, and even tubes of 2ml (with SV-1A)
- Possibility to do measurements directly into your containers: beakers, product packages...
- Low mechanical impact: preservation of sample characteristics and its texture

- Negligible thermal impact
- Measurements possible on foaming samples, on foam itself, on flowing or agitated samples
- Simple operation: no configuration - just push the start button
- Easy cleaning
- WinCT-Viscosity software for data acquisition on PC, graphic display of curves, and data archiving (viscosity curves against temperature or time)
- Calibration (judgement and even adjustment) of viscosity possible by the user: 1 or 2 points
- Simplified and automated calibration (including adjustment) with pure water (SV-10)
- Temperature control of sample with water jacket option (AX-SV-37) or other methods

SV Vibro Viscometers



Standard accessories delivered with SV-10/SV-100:

4 x 35ml-sample cup (polycarbonate), WinCT-Viscosity software, RS-232C interface and cable.

Standard accessories delivered with SV1-A:

10 x 2ml-sample tubes with lid (polycarbonate), 5 x 35ml-sample cup (polycarbonate), 10 x 2ml-sample tubes (glass), 5 x holders for 2ml-sample tubes: 3 in black and 2 transparent, 1 rack for 2ml-sample tubes, 1 water jacket (polycarbonate), for temperature control, WinCT-Viscosity software, RS-232C interface and cable, USB adapter

SV-1A: miniaturized sensor

2ml sample measurements (SV-1A)

Model	Measurement Range	Unit
SV-10	0.3 — 10000 mPa·s	mPa·s, Pa·s, cP, P
SV-100	1 — 100 Pa·s	Pa·s, P
SV-1A	0.3 — 1000 mPa·s	mPa·s, Pa·s, cP, P

Options & Accessories for SV-10, 100, 1A	Model
Sample cup, 35-45ml, polycarbonate (pack of 10)	AX-SV-33
Small sample cup, 10ml, with cover, polycarbonate (pack of 10)	AX-SV-34
Sample cup, 13ml, Glass	AX-SV-35
Positioning stopper	AX-SV-36
Water jacket (1 water jacket, 4 × 10ml-cups with cover)	AX-SV-37
Storage container, 60ml, glass (pack of 10)	AX-SV-38
Storage container, 120ml, plastic (pack of 20)	AX-SV-39
Analog voltage output (0-1V)	AX-SV-42
Extension cable (5m) between the main unit and the display	AX-SV-43
Tube holders for 2ml cups, polycarbonate	AX-SV-56*
(5pc: 2 transparent, 3 black)	AX-SV-56*
Rack stands for 2ml tubes (2 pcs)	AX-SV-57*
Sample tube, 2ml with lid, polycarbonate (pack of 100)	AX-SV-58*
Rack stand and 5 glass sample-cups (2ml)	AX-SV-59*

*only for SV-1A



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



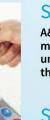
Moisture Analyzers







Easy sample handling







Quick reference card

ML-50

Specifications	MS-70	MX-50	MF-50	ML-50					
Measurement method	400W	400W straight halogen lamp heating system with SRA-filter and SHS weighing technology							
Max. sample weight capacity	71g		51g						
Weighing resolution	0.0001g	0.001g	0.002g	0.005g					
Moisture content display	0.001%/0.01%/0.1%	0.01%/0.1%	0.05%/0.1%/1%	0.1%/1%					
Accuracy over 1g	0.05%	0.10%	0.20%	0.5%					
Accuracy over 5g	0.01%	0.02%	0.05%	0.1%					
Heating technology		Halogen lamp ((straight type, 400 Watt, 5000 hours)						
Drying temperature	30 — 200°C		50 — 200°C						
Measurement programs	Stan	dard mode / automatic comp	olete mode / timer mode / manual n	node / quick mode					
Units		Wet base / dry	base / solid content / ratio / weight						
Display type			Vacuum fluorescent						
Sample pan size			Ø 85mm						

- Fast and uniform heating with halogen lamp and uniquely designed "SRA" filter that avoids hot spots
- High repeatability with SHS technology (Super Hybrid Sensor)
- Sodium Tartrate Dihydrate for accuracy verification
- Calibration function for the heating temperature with optional MX/MF-OP-43 (for MS & MX)
- Memory function (to be able to save/recall configurations as well as measurement results)
- · Five measurement programs (standard, automatic, quick, timer and manual mode)
- Four heating modes (standard, quick, step and ramp mode) (not ML)

- Large and easy to read VFD display
- Standard RS-232C interface
- · Measurement of liquid or solid content



Standard functions









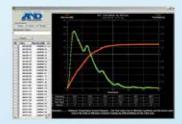


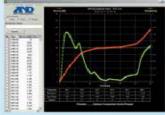




Moisture Analyzers WinCT-Moisture Software

With our WinCT-Moisture software, data measured by the moisture analyzers can be easily displayed on your computer. You can animate analysis curves in real time (module RsFig), control the equipment from your PC (RsCom) and transfer measurement results directly into MS Excel or MS Word (RsKey). WinCT-Moisture allows testing of new sample types in order to determine the best measurement parameters such as heating temperature (RsTemp). This function is very useful to reduce the measurement time and to improve accuracy.

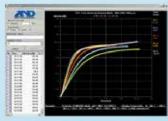


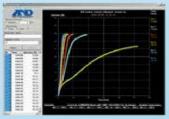


Soybean flour

Sodium tartrate dihydrate

The example shows multiple measurements by using the RS-Fig graphical software:





Sodium tartrate dihydrate

Soybean flour

WinCT measurement graphs

Model	Description
MS-70	Moisture analyzer 71g × 0.1mg
MX-50	Moisture analyzer 51g × 1mg
MF-50	Moisture analyzer 51g × 2mg
ML-50	Moisture analyzer 51g × 5mg

Options & Accessories	Model
Single-use sample pans (Ø 83mm, pack of 100)	MX/MF-OP-30
Re-usable sample pans (pack of 100)	MX/MF-OP-31
Glass fibre sheets Ø 70 mm (pack of 100)	MX/MF-OP-32-1
Glass fibre sheets Ø 78 mm (pack of 100)	MX/MF-OP-32-2
Sodium tartrate dihydrate (12 × 30g)	MX/MF-OP-33
Halogen lamp	MX/MF-OP-34
Pan handle (pack of 2)	MX/MF-OP-35
Tweezers (pack of 2)	MX/MF-OP-36
Spoon (pack of 2)	MX/MF-OP-37
Transparent plastic covers (5 pcs)	MX/MF-OP-38
Dust cover	MX/MF-OP-39
RS-232C cable (9-25 pin connectors, 2 meters)	MX/MF-OP-40
Calibration weight 20g, OIML Class F1	MX/MF-OP-41
WinCT-Moisture software CD	MX/MF-OP-42
Temperature calibrator (for MS-70 and MX-50)	MX/MF-OP-43

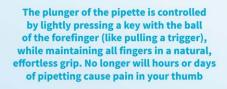
- WinCT-Moisture displays moisture rate changes over time in a real-time animated graph (RsFig)
- Measures moisture rate in shortest time with excellent accuracy
- Shows sample data summary: configuration description and measurement results
- Calculates measurement data statistics
- Saves the recorded data as a CSV file



MPA Series

Single Channel Electronic Pipettes







Reduced physical stress due to ergonomic operation. The use of an electronic pipette requires minimal power, and keeps the strain on your hand as low as possible. The degree of fatigue compared to a manual pipette is very low.

Accessories	Model
Tip box for the MPA-10/20/200*3	AX-BOX200A
Tip box for the MPA-1200*3	AX-BOX1200A
Tip box for the MPA-10/20/200 (without lid)*3	AX-BOX200B
Tip box for the MPA-1200 (without lid)*3	AX-BOX1200B
Tip cartridge for the MPA-10/20 (10 trays)*4	AX-CART-10/20
Tip cartridge for the MPA-200 (10 trays)*4	AX-CART-200
Tip cartridge for the MPA-1200 (10 trays)*4	AX-CART-1200
Tip box for the MPA-10000 (250 pcs)	AX-BULK-10ML-A
Tip box for the MPA-10000 (36 pcs)	AX-BOXT-10ML-A
Tip box for the MPA-10000 (36 pcs sterilized)	AX-BOXT-10ML-AS
Stainless steel stand (for up to three MPAs)	AX-ST-SUS
Acrylic stand (for up to two MPAs)	AX-ST-ACR
Charging hanger	AX-HA-CHG
Charging stand for single MPA	AX-ST-CH-A1
Charging stand for four MPAs	AX-ST-CH-M4
Lithium-ion rechargeable battery	AX-BAT-MPA
Lower part assembly for the MPA-10	AX-LOW-10
Lower part assembly for the MPA-20	AX-LOW-20
Lower part assembly for the MPA-200	AX-LOW-200
Lower part assembly for the MPA-1200	AX-LOW-1200
Lower part assembly for the MPA-10000	AX-LOW-10000
Sample cup holder set	AX-HOLDER-SET
Pipette elbow cushion	AX-PAD-MPA

^{*3} tips not included, *4 one set includes 96 tips



With padding set on the four corners of the head, the pipettes of the MPA series are protected from impacts and falls.

- · Automatic operation assuring accuracy for everyone at all times
- · Calibration and display by either volume (µL/mL) or weight (mg)
- Multiple dispensing (MD) mode with automatic initial volume correction (pre-dispensing)
- Mixing (MIX) mode for homogenizing solutions
- Reverse operation for accurately dispensing viscous samples
- Aspirating/dispensing speeds adjustable to 5 levels
- Easy calibration (adjustment) by yourself user CAL function
- Accurate pipetting possible with other manufacturers' tips

Model	Volume Range	Accuracy
MPA-10	0.5 to 10.0⊠L	0.1 🛮 L
MPA-20	2.0 to 20.0⊠L	0.1 ⊠L
MPA-200	10 to 200⊠L	1.0 ⊠L
MPA-1200	100 to 1200⊠L	1.0 ⊠L
MPA-10000	0.1 mL to 10.0mL	0.01mL



AD-4212A-PT, AD-4212B-PT, FX-300i-PT

Pipette Accuracy Testers



- Compliant to ISO8655 for "gravimetric methods"
- Three models covering a wide volumetric range from 1 mg to 1 mg
- The innovative SHS Sensor enables very fast measuring and quick stabilisation time, and therefore increases productivity when testing pipettes
- Data evaluation and control of the balance with "WinCT-Pipette" software
- Standard liquid thermometer for precise mass-to-volume conversion
- Standard calibration weight and tweezers to maintain the balance accuracy included

Specifications	AD-4212B-PT	AD-4212A-PT	FX-300i-PT
Capacity	110g/31g/5.1g	110g	320g
Min. weighing value	0.1mg/0.01mg/1Mg	0.1mg	1mg



Standard functions



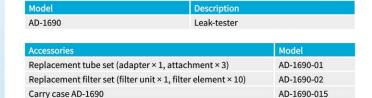
AD-1690

Leak Tester

For quick screening of pipettes for air tightness!



- · Quick testing in less than 5 seconds
- Leak detection by depressurization ensuring no dust enters the object being measured
- Replaceable air filter to protect the AD-1690 from dust when it intakes air
- RS-232C interface to output data to a PC or an A&D peripheral device
- Three types of attachments to cover micropipettes with capacities ranging from 2 ML to 10,000 ML





MC Mass Comparators

Precision Balance with **Extended Resolution**



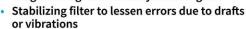


MC-10K and auto-centering pan

MC-6100

Model	Capacity	Resolution	Pan Size
MC-1000	1100g	0.0001g	128 × 128 mm
MC-6100	6100g	0.001g	165 × 165 mm
MC-10K	10.1kg	0.001g	270 × 210 mm
MC-30K	31kg	0.01g	270 × 210 mm
MC-100KS	101kg	0.01g	386 × 346 mm

F1 or below Extra decimal place for monitoring fine weight changes with heavy tare weights



For management of masses in the OIML Class

- Auto-centering pan to avoid corner-load errors and ensure higher accuracy (optional)
- Internal calibration mass for simplified calibration of the balance
- Equipped with a glass breeze break (MC-1000/6100) or simple breeze break as standard (MC-10K/30K)
- Fast stabilization of approx. 1.5 seconds
- GLP/GMP/GCP/ISO compliant output
- Large bright Vacuum Fluorescent Display
- Multiple weighing units of measurement





Standard functions



















Optional





MC Mass Comparators





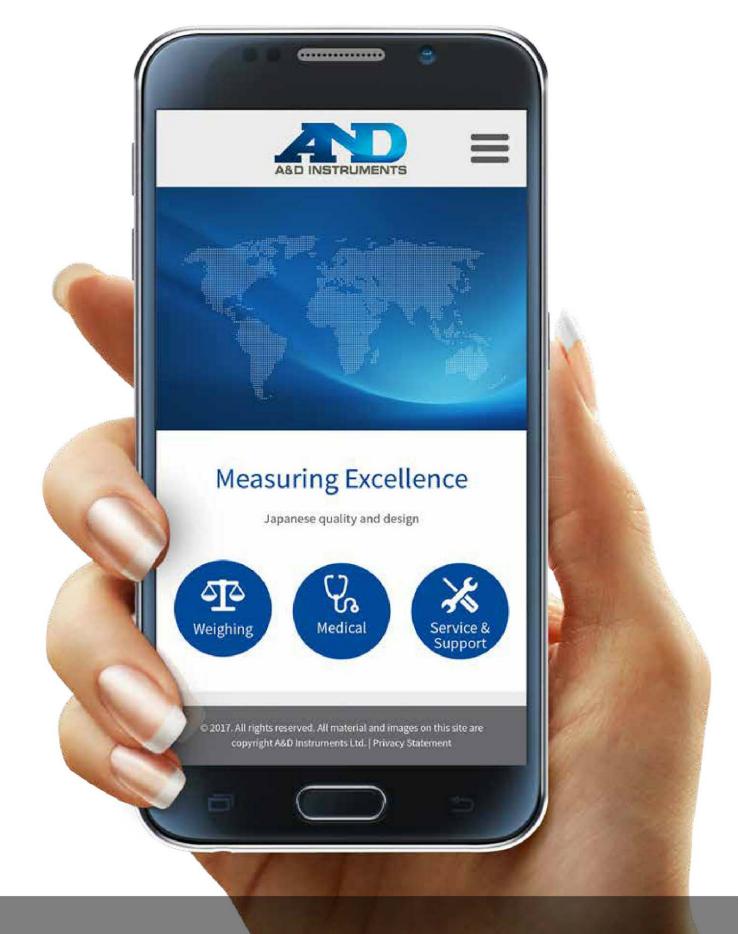
MC-100KS

MC-30K with auto-centering pan

Options & Accessories		Model
For MC-1000/6100	Auto-centering pan (MC-1000)	AX-MC1000PAN
For MC-1000/6100	Auto-centering pan (MC-6100)	AX-MC6100PAN
For MC-1000/6100	Quick USB interface with cable	GX-02
For MC-1000/6100	Comparator output with a buzzer/RS-232C/current loop*	GX-04
For MC-1000/6100	Analog voltage auto-centering pan (MC-1000)	GX-06
For MC-1000/6100	Output/current loop*	GX-12
For MC-1000/6100	Animal weighing pan	GX-13
For MC-10K/30K	Auto-centering pan (MC-10K/30K)	AX-MC10K/30KPAN
For MC-10K/30K	Comparator output with a buzzer/RS-232C/current loop**	GX-04K
For MC-10K/30K	Analog voltage output/current loop**	GX-06K
For MC-10K/30K	Waterproof RS-232C cable (5m)	GX-07K
For MC-10K/30K	Animal weighing pan	GXK-012
For MC-10K/30K	Carrying case	GXK-015
For MC-100KS	Comparator output with buzzer/RS-232C/current loop	GP-OP-04
For MC-100KS	Analogue voltage output/current loop	GP-OP-06
For MC-100KS	5m display cable (factory fit)	GP-OP-07
For MC-100KS	Animal weighing pan	GP-OP-12
For MC-100KS	Underhook	GP-OP-21
For MC-100KS	AD-8121B printer support bracket	GP-OP-22
For all models	Weighing environment logger (temperature, humidity, pressure, vibration)	AD-1687

^{*} GX-04 and GX-06 are factory installed options.

** GX-04K, GX-06K, and the standard RS-232C interface cannot be used at the same time. The MC-10K/30K are not IP65 compliant with these options



New Website Coming soon



www.aandd-eu.net



Laboratory Weighing

BM Micro Analytical Balances



BM-20

- Easy, fanless elimination of static electricity using a built-in ionizer
- Anti-static breeze break
- Large weighing chamber for improved usability
- Built-in temperature, humidity, and atmospheric pressure sensors
- Interlockable slide doors allowing efficient operation with both hands
- Motorized calibration with an internal mass:
 - » Automatically triggered based on temperature variation
 - » Triggered by operator
- · Clearly visible, white-backlit LCD
- · Memory: up to 200 data sets
- AD-1688 as standard accessory: dedicated USB key to record weighing data as well as environmental parameters into MS Excel readable files
- 12 weighing units: g, mg, oz, ozt, ct, mom, dwt, GN, tael, tola, pcs (counting), %.
- Special pans/holders for BM-20/22:
 - » Small pans for sampling minute amounts
 - » Holders for PM filters
 - » Holders for microfuge tubes
 - » Optional pipette accuracy testing kit
- Interfaces:
 - » RS-232C (standard)
 - » Quick USB (standard)
 - » Ethernet (optional)

To block drafts, A&D adopted a doublering structure around the weighing pan and two vertical shields under the separation plate. This offers more space and easier operation.

The removable separator plate enables to have one large chamber if needed.

Model	Capacity	Resolution	Pan Size
BM-20	22g	1⊠g	Ø 25mm
BM-22*	22g/5.1g	0.01mg/1⊠g	(50 and 95mm for filter pans)

*Smart range

BM Micro Analytical Balances



Three interfaces are delivered as standard with the BM:

Digital input signal

Bidirectional RS-232C

Example of connections to various peripherals:













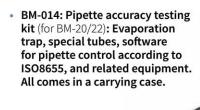
Special pans for weighing PM filters

Aluminium analytical pans

Holders for microfuge tubes



- WinCT Plus LAN Ethernet network
 - » LAN-Ethernet interface (BM-08, optional) with WinCT-Plus software: You can send commands for controlling and acquiring data to multiple balances







































A&D-MEET

A&D Measurement Environment Evaluation Tool

The goal is to characterize, qualify, and optimize your weighing environment in order to enable accurate micro weighing.

In conjunction with the AD-1688 data logger (supplied as standard) performance and environmental data can be recorded over a 24 hour period in order to characterize the weighing environment.

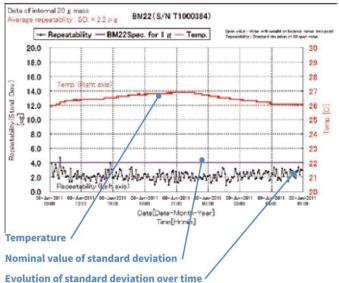
Saved data includes weight (utilising the internal calibration system) temperature, atmospheric pressure and humidity. Recorded data can then be emailed to A&D for analysis and reporting. An A&D representative will be able to provide an objective assessment of the weighing environment and discuss possible solutions with the end user where required.

BM has built in sensors to monitor weighing conditions:









Examples of graphs generated/AND-MEET with AD-1688

BM Micro Analytical Balances

The BM analytical models have the same functional characteristics as the BM micro models.



Large weighing chamber (separator plate is easy to remove).



BM-252

Model	Capacity	Resolution	Pan Size
BM-252	250g	0.01mg	Ø 90mm
BM-200	220g	0.1mg	Ø 90mm
BM-300	320g	0.1mg	Ø 90mm
BM-500	520g	0.1mg	Ø 90mm

Options & Accessories	Model
Ethernet interface with WinCT-Plus software*	BM-08
Pipette testing kit (all models)	BM-14
Density measurement kit (BM-252, 200, 300, 500)	AD-1653
Tabletop anti-vibration table	AD-1671
Freestanding anti-vibration table	ADI-MWT
Table top breeze break	AD-1672
Electrostatic field meter	AD-1684
Tweezers for calibration weight	AD-1689
Display working covers (5pcs)	AX-BM-031
Centrifuge tube holder	AX-BM-032
Ioniser electrode needles (4pcs)	AX-BM-NEEDLESET
Aluminium analytical pan (0.05ml, 8mm dia.) 100pcs	AX-PAN-0.05ML
Aluminium analytical pan (0.3ml, 12mm dia.) 100pcs	AX-PAN-0.3ML
Aluminium analytical pan (0.8ml, 15mm dia.) 100pcs	AX-PAN-0.8ML
Foot switch	AX-SW128

^{*} BM-08 and the standard Quick USB interface cannot be used at the same time



Standard functions





















GH/HR-i Analytical Balances





HR-202i

Model	Capacity	Resolution	Verification Value	Pan Size
GH-252-EC*	250g/101g	0.1/0.01mg	1mg	Ø 90mm
GH-202-EC*	220g/51g	0.1/0.01mg	1mg	Ø 90mm
GH-300-EC	320g	0.1mg	1mg	Ø 90mm
GH-200-EC	220g	0.1mg	1mg	Ø 90mm
GH-120-EC	120g	0.1mg	1mg	Ø 90mm
HR-202i	220g/51g	0.1/0.01mg		Ø 90mm
HR-300i	320g	0.1mg		Ø 90mm

Models with "-EC" at the end are EC-type approved. "2nd stage verification" is available as an optional service.

* Dual range

Options & Accessories	Model
Quick USB interface (GH)	GH-OP-02
Ethernet interface (GH)	GH-OP-08
RS-232C/Ethernet converter	AD-8526
Protective Cover (5 pcs) (GH/HR-i)	AX-074016035-S
Density measurement kit	AD-1653
Rechargeable, portable power supply (external)	AD-1682
Static eliminator	AD-1683
Remote controller	AD-8922A
Remote display	AD-8920A

- EC Type approved (GH)
- Wide weighing range for 0.01mg resolution: 101g for GH-252-EC and 51g for HR-202i
- Antistatic glass
- One-touch automatic calibration by motor $\textbf{driven internal calibration mass} \ (\mathsf{GH} \ \mathsf{only})$
- Automatic calibration when the ambient temperature changes (GH only)
- Standard RS-232C interface for printer, PC or other peripherals
- GLP, GMP and ISO compliant
- Data memory function (GH only)
- ID number for GLP output
- **Auto power OFF function**
- Large weighing chamber of: 183mm (W) × 148.5mm (D) × 251mm (H)
- WinCT Communications software (download)

Standard functions





For 2nd stage verification (ex works) the postcode of point of use is required

GR Analytical Balances







Model	Capacity	Resolution	Verification Value	Pan Size
GR-202-EC*	210/42g	0.1/0.01mg	1mg	Ø 85mm
GR-120-EC	120g	0.1mg	1mg	Ø 85mm
GR-200-EC	210g	0.1mg	1mg	Ø 85mm
GR-300-EC	310g	0.1mg	1mg	Ø 85mm

Models with "-EC" at the end are EC-type approved.

"2nd stage verification" is available as an optional service.

* Dual range

Options & Accessories	Model
Rechargeable portable power supply	AD-1682
Density measurement kit	AD-1653
Static eliminator	AD-1683
Remote controller	AD-8922A
Remote display	AD-8920
RS-232C/Ethernet converter	AD-8526

Quick reference card

- EC Type approved
- · Fully automatic self calibration with one push of the CAL key or triggered by temperature change



- · Easy access door with a front lever for quick and efficient access to the weighing chamber
- Splash proof keyboard and display
- Automatic adjustable environment settings
- Multiple weighing units
- Standard RS-232C communication with PC
- · Underhook weighing
- WinCT software (download)
- Large memory for weighing data
- Approx. 30% smaller footprint than other analytical balances
- GLP compliant

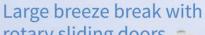
Standard functions



For 2nd stage verification (ex works) the postcode of point of use is required

HR-A/HR-AZ Analytical Balances







"HR-A": external calibration, "HR-AZ": internal calibration



HR-250AZ HR-250A

Model	Capacity	Resolution	Pan Size
HR-100A	102g	0.1mg	Ø 90mm
IR-150A	152g	0.1mg	Ø 90mm
IR-251A	62g/252g	0.1mg/1mg	Ø 90mm
HR-250A	252g	0.1mg	Ø 90mm
IR-100AZ	102g	0.1mg	Ø 90mm
R-150AZ	152g	0.1mg	Ø 90mm
HR-251AZ	62g/252g	0.1mg/1mg	Ø 90mm
IR-250AZ	252g	0.1mg	Ø 90mm

Standard functions





















- Robust construction, strong protection against dust & water
- Built-in internal calibration at the touch of a button (HR-AZ)
- Shock absorber function
- Auto power ON/OFF function
- B5 size footprint for use in narrow space
- Reverse backlit LCD display for easy to read weighing results
- SCF Statistical calculation function
- Standard RS-232C
- Fast compact SHS sensor, response time of about 2 seconds
- **Quick USB interface no driver installation required** (optional)
- LAN Ethernet interface with WinCT-Plus software (optional)
- Easily removable large breeze break
- Built-in rechargeable NiMH battery pack (optional)



























HR-A/HR-AZ Analytical Balances

Robust, Durable, Accurate



Easily removable breeze break for easy cleaning or weighing in restricted spaces e.g. glove boxes





Breeze break

Density measurement kit



Plug & play connectivity with our Quick USB interface (optional). Direct transfer of weighing results into your applications. No driver or add-on software needed.



Ethernet interface (optional). Manage multiple balances through your LAN network



WinCT-Plus software

Options & Accessories	Model
Quick USB interface with cable*	FXi-OP-02
LAN Ethernet output*	FXi-OP-08
NiMH Battery pack*	FXi-OP-09
Transparent plastic covers (5 pcs)	AX-FX-31i
Density measurement kit	AD-1654

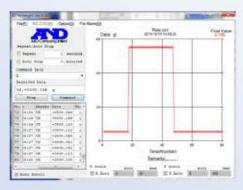
^{*} OP-02, OP-08 and OP-09 cannot be installed at the same time. Note: Connectors of optional OP-02, OP-08 and OP-09 are not IP65.

GX/GF Precision Balances



Fast Response Speed





WinCT-RsWeight



WinCT-RsCom



Density measurement kit

A & D MODEL GX-2000 S/N 01234567 ID ABCDEFG DATE 2003/01/01 TIME 12:34:56 CALIBRATED(INT.) SIGNATURE

GNATUR	ED(INT.)
 GLP p	rintout

Model	Capacity	Resolution	Pan Size
GF-200	210g	0.001g	128 × 128mm
GF-300	310g	0.001g	128 × 128mm
GF-600	610g	0.001g	128 × 128mm
GF-800	810g	0.001g	128 × 128mm
GF-1000	1100g	0.001g	128 × 128mm
GF-1200	1210g	0.01g	165 × 165mm
GF-2000	2100g	0.01g	165 × 165mm
GF-3000	3100g	0.01g	165 × 165mm
GF-6100	6100g	0.01g	165 × 165mm
GF-6000	6100g	0.1g	165 × 165mm
GF-8000	8100g	0.1g	165 × 165mm



Quick reference card



- EC Type approved (GX)
- Date & time (GX)
- Animal weighing function
- Fast response time just 1 second!
- Many models, including large weighing capacities for a given precision: 1,100g x 1mg, 6,100g x 0.01g, and 8,100g x 0.1g
- One-touch automatic internal calibration (GX)
- Automatic self calibration due to changes in the ambient temperature (GX)
- External calibration (GF)
- Large, bright VFD display
- · Percentage, counting and comparator function
- ACAI Automatic Counting Accuracy Improvement
- · Data memory function
- · GLP, GMP and ISO compliant
- Standard RS-232C interface
- WinCT Communications software (download)



GX/GF Precision Balances







GX-400-EC (with optional glass breeze break)

GX-600-EC (with standard breeze break)

Model	Capacity	Resolution	Verification Value	Pan Size
GX-200-EC	210g	0.001g	0.01g	128 × 128mm
GX-400-EC	410g	0.001g	0.01g	128 × 128mm
GX-600-EC	610g	0.001g	0.01g	128 × 128mm
GX-800	810g	0.001g	11-	128 × 128mm
GX-1000	1100g	0.001g	-	128 × 128mm
GX-2000-EC	2100g	0.01g	0.1g	165 × 165mm
GX-4000-EC	4100g	0.01g	0.1g	165 × 165mm
GX-6100-EC	6100g	0.01g	0.1g	165 × 165mm
GX-6000-EC	6100g	0.1g	1g	165 × 165mm
GX-8000-EC	8100g	0.1g	1g	165 × 165mm

Options & Accessories	Model
GFX transparent plastic covers (mg models, 5 pcs)	AX-073002691-S
GFX transparent plastic covers (not mg models, 5 pcs)	AX-073002692-S
Quick USB interface	GX-OP-02
Comparator output and buzzer	GX-OP-04
Analog output	GX-OP-06
GFX Glass breeze break (mg models)	GX-OP-10
GFX Glass breeze break (not mg models)	GX-OP-11
Animal weighing pan	GX-OP-12
Density measurement kit	GX-OP-13
Rechargeable, portable power supply unit	AD-1682

Standard functions





Optional





FX-i & FX-i-WP, FZ-i & FZ-i-WP



Precision Balances

IP65 compliant, water/dust proof balance with "mg" resolution & legal for trade approval FZ-i and FZ-i-WP: internal calibration

FX-i and FX-i-WP: external calibration

FZ-i-WP and FXi-WP: IP65 dust & water proof



Model	Capacity	Resolution	Verification Value	Pan Size
FZ-120i-EC FZ-120i-WP-EC	122g	0.001g	0.01g	Ø 130mm
FZ-200i-EC FZ-200i-WP-EC	220g	0.001g	0.01g	Ø 130mm
FZ-300i-EC FZ-300i-WP-EC	320g	0.001g	0.01g	Ø 130mm
FZ-500i	520g	0.001g	-	Ø 130mm
FZ-1200i-EC FZ-1200i-WP-EC	1220g	0.01g	0.1g	Ø 150mm
FZ-2000i-EC FZ-2000iWP-EC	2200g	0.01g	0.1g	Ø 150mm
FZ-3000i-EC FZ-3000i-WP-EC	3200g	0.01g	0.1g	Ø 150mm
FZ-5000i	5200g	0.01g	-	Ø 150mm
FX-120i FX-120i-WP	122g	0.001g	=	Ø 130mm
FX-200i FX-200i-WP	220g	0.001g	-	Ø 130mm
FX-300i FX-300i-WP	320g	0.001g	-	Ø 130mm
FX-500i	520g	0.01g	-	Ø 130mm
FX-1200i FX-1200i-WP	1220g	0.01g	.= 1	Ø 150mm
FX-2000i FX-2000i-WP	2200g	0.01g	2	Ø 150mm
FX-3000i FX-3000i-WP	3200g	0.01g	•	Ø 150mm
FX-5000i	5200g	0.01g	-	Ø 150mm

- IP65 water / dust proof (WP)
- Built-in internal calibration at the touch of a button (FZ-i and FZ-i-WP)
- Shock absorber function
- Auto power ON/OFF function
- B5 size footprint for use in narrow spaces
- VFD Display for easy to read weighing results
- SCF Statistical Calculation Function
- Standard RS-232C
- · Fast compact SHS sensor, response time only 1 second
- Quick USB interface no driver installation required (optional)
- LAN Ethernet interface with WinCT-Plus software (optional)
- Animal weighing pan (optional)
- Large breeze break (optional)
- Small breeze break included on 1mg models
- Built-in rechargeable NiMH battery pack (optional)



FX-i & FX-i-WP, FZ-i & FZ-i-WP

Precision Balances

Robust, Durable, Accurate



Animal weighing plate (optional)

Options & Accessories	Model
Quick USB interface with cable*	FXi-OP-02
LAN Ethernet output*	FXi-OP-08
NiMH battery pack*	FXi-OP-09
Small breeze break (not WP models)	FXi-OP-10
Small breeze break (WP models)	FXi-WP-10
Large breeze break (not WP models)	FXi-OP-11
Large breeze break (WP models)	FXi-WP-11
Animal weighing pan (0.01 models only)	FXi-OP-12
Transparent plastic covers (5 pcs)	AX-FX-31i
Carat weighing pan - silver	AX-Caratpan-WEX
Carat weighing pan - black	AX-Caratpan-BEX
Waterproof RS-232C cable (5m)	AX-KO2737-500

 $^{^{\}star}$ OP-02, OP-08 and OP-09 cannot be installed at the same time. The connectors of optional OP-02, OP-08 and OP-09 are not IP65.

Enables the measurement of liquid or powder at 1mg resolution, eliminating any worries about damage to the balance

Standard functions



Optional



EK-EP

$\langle \epsilon_x \rangle$

Intrinsically Safe Compact Balances

Conforms to:

IECEx: Ex ia IIB T3 Ga ATEX: II 1G Ex ia IIB T3 Ga FM/FMc (NEC505): AEx / Ex ia IIB T3 FM/FMc (NEC500): IS / I / 1 / C,D / T3C

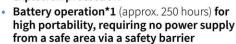


EK-300EP EK-3000EP

Model	Capacity	Resolution	Pan Size
EK-300EP	300g	0.01g	Ø 110 mm
EK-3000EP	3000g	0.1g	133 × 170mm
EK-12KEP	12000g	1g	133 × 170mm

Accessories	Model
Carrying case	EJ-12

 Compact, lightweight and extremely affordable while providing excellent explosion protection





- Easy-to-read LCD display with backlight (16 mm character height)
- Auto power OFF function to save battery power
- Hygienic and chemically resistant stainless steel (SUS304) weighing pan
- Multiple weighing units: g, oz, lb, ozt, ct, mom, dwt, gr, N, in addition to SG (specific gravity)*2
- Counting mode with Automatic Counting Accuracy Improvement (ACAI) function
- Percent mode function for target weighing, checking the sample variation, etc.
- Comparator function for faster and more accurate filling, packing, sorting, etc.
- Adjustable response characteristics depending on the degree of drafts and vibrations at the location
- · Security ring for wire-locking the balance to prevent theft

Standard functions





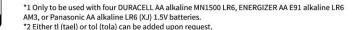












EJ Compact Scales













EJ-12

EJ-13 Density measurement kit

EJ-11 Breeze break (optional for EJ-123/303)

Stackable body for easy storage and saving space

Model	Capacity	Resolution	Pan Size
EJ-123	120g	0.001g	Ø 110mm
EJ-303	310g	0.001g	Ø 110mm
EJ-120	120g	0.01g	Ø 110mm
EJ-200	210g	0.01g	Ø 110mm
EJ-300	310g	0.01g	Ø 110mm
EJ-410	410g	0.01g	Ø 110mm
EJ-610	610g	0.01g	Ø 110mm
EJ-1202	1200g	0.01g	127 × 140mm
EJ-1500	1500g	0.1g	127 × 140mm
EJ-2000	2100g	0.1g	127 × 140mm
EJ-3000	3100g	0.1g	127 × 140mm
EJ-3002	3100g	0.01g	127 × 140mm
EJ-4100	4100g	0.1g	127 × 140mm
EJ-6100	6100g	0.1g	127 × 140mm

Options & Accessories	Model
Quick USB interface	EJ-02
RS-232C interface	EJ-03
Underhook for EJ-3000/EJ-4100/EJ-6100	EJ-07
Underhook for EJ-1500/EJ-2000	EJ-08
Breeze break (standard on EJ-123/EJ-303)	EJ-11
Carrying case	EJ-12
Density measurement kit	EJ-13

- Unique design
- External calibration
- Backlit display
- Supports multiple weighing units like counting, % weighing, comparator...
- Calculates density automatically (option EJ-13)
- Hygienic and rustproof stainless steel pan
- · Security slot at the back for wire-locking to prevent theft
- Stackable body to save storage space
- Power supply: AC adapter or 4 AA size dry batteries (batteries are not included)
- Low battery indicator

Standard functions



















Optional

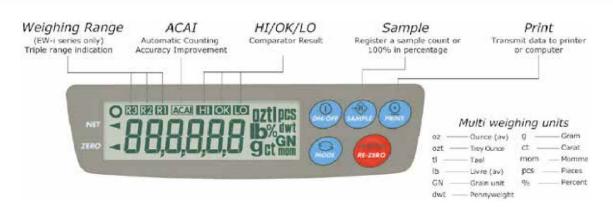




EK/W-i Compact Balances



EW-1500i



WARRANTZ
3 YEAR
WARRANT

Options & Accessories	Model
Comparator/relay output	EK/Wi-OP-04
Underhook (EK-6000i/EK-12Ki)	EK/Wi-OP-07
Rechargeable battery pack	EK/Wi-OP-09
Carrying case	EJ-12
Transparent plastic covers (5pcs.)	AX-3005824-5S

Model	Capacity	Resolution	Verification Value	Pan Size
EW-150i-EC*	30g	0.01g	-	Ø 110mm
	60g	0.02g	0.02g	
	150g	0.05g	0.05g	
EW-1500i-EC	300g	0.1g	0.1g	133 × 170mm
	600g	0.2g	0.2g	
	1500g	0.5g	0.5g	
EW-12Ki-EC	3000g	1g	1g	133 × 170mm
	6000g	2g	2g	
	12000g	5g	5g	

Models with "-EC" at the end are EC-type approved. "2nd stage verification" is available as an optional service.

For 2nd stage verification (ex works) the postcode of point of use is required

optional service.

* Triple range, ** In case of EW-150i, after 2nd stage verification only dual range, highest ranges: 60/150g.

EK/W-i Compact Balances







Options & accessories Dot Matrix compact statistical printer AD-8121B





Ni-MH Battery Pack *EKW-09i, for complete portability and use in areas without power

Carrying case EJ-12

GLP Printout with balance I.D. number allows calibration output verification print out

Model	Capacity	Resolution	Verification Value	Pan Size
EK-200i	200g	0.01g	-	Ø 110mm
EK-300i	300g	0.01g	-	Ø 110mm
EK-410i	400g	0.01g		Ø 110mm
EK-610i-EC	600g	0.01g	0.1g	Ø 110mm
EK-1200i	1200g	0.1g		133 × 170mm
EK-2000i	2000g	0.1g	-	133 × 170mm
EK-3000i	3000g	0.1g	-	133 × 170mm
EK-4100i	4000g	0.1g		133 × 170mm
EK-6100i-EC	6000g	0.1g	1g	133 × 170mm
EK-6000i	6000g	1g		133 × 170mm
EK-12Ki	12kg	1g		133 × 170mm

Models with "-EC" at the end are EC-type approved. "2nd stage verification" is available as an optional service.















- EC Type approved (EK-610i-EC, EK-6100i-EC and EW-i series)
- Standard RS-232C interface
- Large LCD display with backlight
- Triple range (EW-i only, EW-150i-EC dual range after verification)
- Compact design
- **GLP** compliant
- **Overload protection**
- Standard comparator function
- Optional rechargeable battery pack
- 9 Weighing units plus count and percentage mode
- **Counting function with Automatic Counting Accuracy** Improvement (ACAI)
- Full digital calibration with optional user definable mass setting

Optional





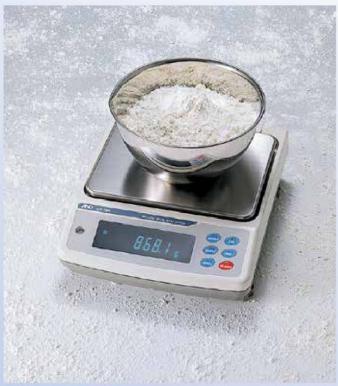




GX-K/GF-K Industrial Precision Balances

IP65 Water & Dust Protection





Water protected

Dust protected

GX-30K

Model	Capacity	Resolution	Pan Size
GX-8K-EC	8.1kg	0.01g	270 × 210mm
GX-8K2*	8.1/2.1kg	0.1/0.01	270 × 210mm
GX-10K-EC	10.1kg	0.01g	270 × 210mm
GX-12K-EC	12kg	0.1g	270 × 210mm
GX-20K-EC	21kg	0.1g	270 × 210mm
GX-30K-EC	31kg	0.1g	270 × 210mm
GX-32K*	31/6.1kg	1/0.1g	270 × 210mm
GF-8K	8kg	0.01	270 × 210mm
GF-8K2*	8.1/2.1kg	0.1/0.01g	270 × 210mm
GF-10K	10kg	0.01g	270 × 210mm
GF-12K	12kg	0.1g	270 × 210mm
GF-20K	21kg	0.1g	270 × 210mm
GF-30K	31kg	0.1	270 × 210mm
GF-32K*	31/6.1kg	1/0.1g	270 × 210mm

^{*} Smart Range (see icon definition)

Options & Accessories	Model
Comparator relay output with buzzer/current loop	GX/GF-OP-04K
Analog/current loop output	GX/GF-OP-06K
Waterproof RS-232C cable (5m)	GX/GF-OP-07K
Transparent plastic covers (5 pc)	AX-073007197-S
Breeze break (standard on GF/GX-8K/8K2 & 10K models)	AX-GXK-31
Rechargeable, portable power supply unit	AD-1682
Animal weighing pan	AX-GXK-012

^{*}NOTE: In wet areas, please use interfaces only with OP-07.

- Fast response time with Super Hybrid sensor (SHS) only 1.5 seconds
- One touch automatic calibration with motordriven internal calibration mass (GX-K)
- Automatic self calibration when the ambient temperature changes (GX-K)
- IP65 water and dust proof
- Standard RS-232C Interface
- GLP, GMP and ISO compliant
- Underhook weighing (for thermal or magnetic samples, or for density measurement)
- ACAI (Automatic Counting Accuracy Improvement)
- · Auto power ON function
- Display auto power OFF function
- · Data memory function
- Smart Range function (GX/GF-8K2/32K)



GX-K/GF-K Industrial Precision Balances





Robust:

- Die cast aluminium
- Four support points under the pan
- Mechanical keyboard
- · SHS sensor technology

Easy to clean

IP 65 dust & water protected, for a large weighing capacity at a given resolution: 10kg × 0.01g, 31kg × 0.1g





IP65 protected data cable



Well protected, easy to clean

Standard functions



































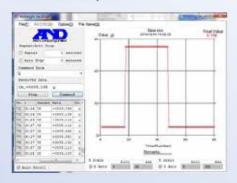


GP Industrial Precision Balances





Communications software provides easy transmission of weighing data from A&D balances to a computer

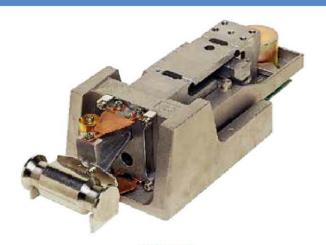


WinCT-RsCom



WinCT-RsWeight

GP-100KS



SHS sensor (and its internal calibration weight)

Options & Accessories	Model
Comparator relay output/RS-232C/current loop	GP-OP-04
Analog output	GP-OP-06
5m extension cable (KS model only)	GP-OP-07
Underhook (GP-12K/20K/22K/30K/30KS)	GP-OP-20
Underhook (GP-60K/100K/100KS/102K)	GP-OP-21
AD-8121 printer mounting kit	GP-OP-22
Transparent plastic covers (1 pc)	07:3004753
Rechargeable, portable power supply unit	AD-1682

- **EC Type approved** (not KS models, GP-40K, GP-61K)
- Swing arm design or separate display and platform design
- IP65 protected
- Durable aluminium alloy & stainless steel construction
- · Easy calibration with internal calibration mass
- SHS response speed of only 1.5 seconds
- · GLP, GMP and ISO compliant
- RS-232C interface
- Comparator output and analog output (optional)
- Large Vacuum Fluorescent display
- · Data memory function
- Counting function with ACAI (Automatic Counting Accuracy Improvement)
- Smart range function (GP-32K/102K/32KS)
- Comparator function
- Underhook weighing for thermal and magnetic samples as well as for density calculation
- · Animal weighing function

GP Industrial Precision Balances







Swing arm display

GP-30K



Model	Capacity	Resolution	Verification Value	Pan Size
GP-12K-EC	12kg	0.1g	1g	384 × 344mm
GP-20K-EC	21kg	0.1g	1g	384 × 344mm
GP-32K-EC*	31kg/6.1kg	1g/0.1g	10g/1g	384 × 344mm
GP-32KS*	31kg/6.1kg	1g/0.1g	-	384 × 344mm
GP-30K-EC	31kg	0.1g	1g	384 × 344mm
GP-30KS**	31kg	0.1g	=	384 × 344mm
GP-40K-EC	41kg	0.5g	5g	384 × 344mm
GP-60K-EC	61kg	1g	10g	384 × 344mm
GP-60KS	61kg	1g	-	384 × 344mm
GP-61K	61kg	0.1g	•	384 × 344mm
GP-61KS	61kg	1g	-	384 × 344mm
GP-100K-EC	101kg	10g	100g	386 × 346mm
GP-100KS**	101kg	1g	-	386 × 346mm
GP-102K-EC*	101kg/61kg	10g/1g	100/10g	386 × 346mm

* Smart Range (see icon definition), ** Detachable display (KS models) Models with "-EC" at the end are EC-type approved.

Standard functions

































AD-4212A, AD-4212B



High Speed Production Weighing Sensor

Ensures maximum efficiency of your production line

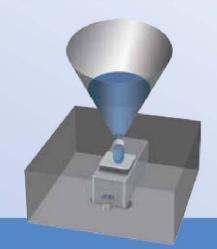
For applications such as:

- High-speed weighing
- High-speed check weighing
- Filling
- Isolated weighing

Fast, Precise, Compact, Durable







Model	Capacity	Resolution	Pan Size
AD-4212A-100	110g	0.1mg	50 × 50mm
AD-4212A-200	210g	1mg	50 × 50mm
AD-4212A-600	610g	1mg	50 × 50mm
AD-4212A-1000	1100g	1mg	70 × 70mm
AD-4212B-23	21g	0.001mg	Ø 34mm
AD-4212B-101*	110g/31g	0.1mg/0.01mg	Ø 34mm
AD-4212B-102	110g	0.01mg	Ø 34mm
AD-4212B-201	210g	0.1mg	50 × 50mm
AD-4212B-301	310g	0.1mg	50 × 50mm

* Smart Range (see icon definition)

Options & Accessories	Model
BCD output/external contact input	AD4212A-OP-01
Comparator output (only AD-4212A)	AD4212A-OP-04
Extension cable 3m	AD4212A-OP-07
Ethernet interface (with application software WinCT-plus in CD-ROM)	AD4212A-OP-08
Stainless steel breeze break (standard for AD-4212A-100 and all B models)	AD4212A-OP-19
Metal levelling foot	AD4212A-OP-20
Static eliminator	AD-1683

Standard functions



















High resolution and quick stabilization times down to:

- » 0.8 second for 1mg AD-4212A models
- » 1.1 second for 0.1mg AD-4212A models
- » 2.5 seconds for 0.1mg AD-4212B models
- » 4 seconds for 0.01mg AD-4212B models
- · Possibility to use a weighing pan of your own design for holding special objects
- Standard RS-232C interface
- The AD-4212A offers 3-level comparator with contact output and buzzer
- The AD-4212B offers 5-level comparator with contact output and
- External digital inputs to trigger actions such as RE-ZERO or PRINT
- Data memory, GLP and GMP compliant
- WinCT: software tool for data acquisition from PC
- Multiple weighing units: g, mg, OZ, Lb, LOZ, Ozt, ct, mom, dwt, GN, TL, t, MS, PCS (counting) and Pct (%)
- 2m connection cable in between sensor and indicator
- Protection against vertical or transverse shocks patented (AD-4212B)

















AD-4212C



High Speed Production Weighing Sensor

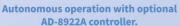


Fast: down to 0.5s Precise: down to 1mg

Compact: only 59mm width

Durable: with IP65





(AD-8922A can also interface with a PC or a PLC)



Direct connection of sensor to PC or PLC by RS-232C

AD-4212C-300

Model	Capacity	Resolution	Pan Size
AD-4212C-301*	51g/320g	0.1mg/1mg	50 × 50mm
AD-4212C-300	320g	1mg	50 × 50mm
AD-4212C-600	610g	1mg	50 × 50mm
AD-4212C-3100*	510g/3200g	1mg/10mg	50 × 50mm
AD-4212C-3000	3200g	10mg	50 × 50mm
AD-4212C-6000	6100g	10mg	50 × 50mm

* Smart Range (see icon definition)

Options & Accessories	Model
Remote controller and display unit	AD-8922A
Remote controller with BCD interface	AD-8923-BCD
Remote controller with CC interface	AD-8923-CC
Static eliminator	AD-1683

- High resolution and quick stabilization times down to:
 - » 0.5 second up to 30 grams
 - » 1.0 second up to maximum capacity
- · Possibility to use a weighing pan of your own design for holding special objects
- · Protected against vertical and transverse overloading (patent pending)
- Outputs digital weighing data directly to a panel computer, PLC, or PC via standard RS-232C interface
- · Analog, comparator, and BCD outputs are also available when using the optional AD-8922A controller
- · High-speed data transmission of up to 50 times/second
- IP65 dust and water-proof construction for powder or liquid
- · Easy calibration and response speed adjustment using WinCT-AD4212 software
- Calibration weight included
- Connection cable included (about 5m)
- Securable to a base by replacing levelling feet with screws













AD-4212D Analytical Weighing Sensor



AD-4212D-33 AD-1691

Model	Capacity	Resolution	Pan Size
AD-4212D-33	32 g	0.001 mg	Ø34 mm
AD-4212D-32	5.1 g/32 g ⁻¹	0.001 mg/0.01 mg ⁻¹	Ø34 mm
AD-4212D-302	320 g	0.01 mg	Ø50 mm
AD-4212D-301	320 g	0.1 mg	Ø50 mm

^{*1} Smart range function: The display will switch to the standard range automatically when the value exceeds 5.1g but will return to the precision range when RE-ZERO (tare) is performed.

Options & Accessories	Model
Static eliminator	AD-1683
Electrostatic field meter	AD-1684A
Compact printer	AD-8121B
Remote controller and display unit	AD-8922A
Remote controller (BCD)	AD-8923-BCD
Remote controller (CC-link)	AD-893-CC
RS-232C cable (10m, for A&D's external display)***	AX-KO3590-1000
AX-KO4472-1000: RS-232C cable (10m, for a PC/PLC)	AX-KO4472-1000

^{***} A 2m cable is provided as standard













- Minimum weighing value from 1 µg
- EM-DLC* technology for direct connection to a PC
- Compact size and resistance to vacuum state ideal for use in a glove box



- Internal calibration function to ensure accuracy with one key
- Protection mechanism against vertical and transverse overloading due to actuator malfunctions, etc.
- Adjustable response characteristics to help cope with the effects of drafts and vibrations
- Automatic zero display after data output
- Equipped with a small breeze break
- Possible to design and attach your preferred weighing pan/receptacle
- Clock and calendar function
- Underhook for weighing magnetic materials and density measurements
- GLP/GMP/GCP/ISO compliant output
- Clock and calendar function
- Built-in temperature sensor for temperature data output
- Can be secured directly to a base by removing the levelling feet and using screws
- Water-resistant cap for cleaning**
- High extensibility with A&D's various peripheral devices
- AD-1691 weighing environment analyzer provided as standard

^{*} Electromagnetic Digital Load Cell

^{**} The AD-4212D has an IP65 rating when the cap is put on the pan support boss (after removing the weighing pan and pan support).



Industrial Weighing

FG Platform Scales





FG-60KBM FG-150KAL

Model	Capacity	Resolution	Verification Value	Pan Size
FG-150KAL	150kg	10*/20*/50g	(E)	530 × 390mm
FG-150KAL-EC	150kg	50g	50g	530 × 390mm
FG-60KAL	60kg	5*/10*/20g	·=-	530 × 390mm
FG-60KAL-EC	60kg	20g	20g	530 × 390mm
FG-60KBM	60kg	5*/10*/20g	-	380 × 300mm
FG-60KBM-EC	60kg	20g	20g	380 × 300mm
FG-30KBM	30kg	2*/5*/10g		380 × 300mm
FG-30KBM-EC	30kg	10g	10g	380 × 300mm

Options & Accessories	Model
RS-232 interface	FG-OP-23
RS-232 interface & comparator relay output	FG-OP-24
Transparent plastic working covers (5 pcs.)	AX-3007527-5S

- EC type approved
- Comparator function
- Full digital calibration
- Counting function
- Auto power OFF function
- Status indicators (stable, zero, and net)
- · High-speed weighing with 1-second stabilization
- Washable and hygienic stainless steel weighing pan in two sizes
- Optional RS-232C and comparator output (FG-OP-23/FG-OP-24)
- Display unit either on a column (FG-KAM/KAL) or attached directly to the platform (FG-KBM)
- Three selectable weighing resolutions
- Approx. 150 hours with 4 x C type dry-cell batteries, batteries not included

Standard functions























Swivel and rotatable display head

EM-30KAM

Model	Capacity	Resolution	Pan Size
EM-30KAM	30kg	2/5/10g	300 × 350mm
EM-60KAM	60kg	5/10/20g	300 × 350mm
EM-60KAL	60kg	5/10/20g	400 × 500mm
EM-150KAL	150kg	10/20/50g	400 × 500mm

Options & Accessories	Model
Table/wall bracket	EM-OP-14
Protective cover	EM-OP-15
Loadcell extension cable (3m)	EM-OP-16
Loadcell extension cable (5m)	EM-OP-17

- 3 selectable resolutions
- Large, easy to read backlit display
- · Rechargeable, internal battery
- Stainless steel weighing pan
- · Swivel and rotatable display head
- "Auto power OFF" function
- Counting function
- RS-232C interface













SJ Digital Scales



Model	Capacity	Resolution	Verification Value	Pan Size
SJ-1000HS	1000g	0.5g	-	230 × 190mm
SJ-1000-EC	1000g	1g	1g	230 × 190mm
SJ-2000HS	2000g	1g	-	230 × 190mm
SJ-2000-EC	2000g	2g	2g	230 × 190mm
SJ-5001HS	5000g	1g	-	230 × 190mm
SJ-5000HS	5000g	2g	-	230 × 190mm
SJ-5000-EC	5000g	5g	5g	230 × 190mm
SJ-12KHS	12kg	5g	2	230 × 190mm
SJ-12K-EC	10/12kg	10/20g	10/20g	230 × 190mm
SJ-20KHS	20kg	10g	-	230 × 190mm
SJ-20K-EC	20kg	20g	20	230 × 190mm
SJ-30KHS	30kg	20g	-	230 × 190mm
S.I-30K-FC	20/30kg	20/50g	20/30	230 × 190mm

- · Stainless steel weighing pan
- · Large LCD display
- Short stabilization time less than 1 second
- Multiple weighing units g, lb, oz and lb-oz
- Level bubble and adjustable feet for precise levelling
- Battery or AC adapter operation (AC adapter comes as option)
- 4 type D batteries (batteries not included)
- Long battery life: approx. 1,600 hours with alkaline cells at 20°C
- · Simple and easy to change the batteries: battery tray at the back
- Flat design for avoiding food traps
- · Hygiene NSF approved

Accessories	Model
AC adapter UK	AX-TB264U
AC adapter EU	AX-TB263E

Standard functions











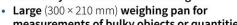


For 2nd stage verification (ex works) the postcode of point of use is required

EK-LPrecision Bench Scales



- EK-15KL: Offers a large capacity and high resolution
- EK-30KL: Especially useful when the gross weight exceeds 15 kg, yet 0.1 g readability is necessary to measure the net weight



- measurements of bulky objects or quantities

 Hygienic and scratch-resistant stainless steel (SUS430)
- weighing pan
- Easy-to-read LCD display, white backlight (22 mm characters)
- RS-232C interface as standard
- GLP/GMP/GCP/ISO compliant output
- Multiple weighing units: g, kg, oz, lb, ozt
- Automatic Counting Accuracy Improvement (ACAI) function
- Operation with either AC adapter or optional rechargeable battery
- Percent function, comparator function, display hold function

















Model	Capacity	Resolution	Pan Size
EK-15KL	15 kg	0.1g	300 × 210mm
EK-30KL	3 kg/30 kg	0.1g/1g	300 × 210mm









HT Compact Scales







HT with stainless

steel pan

 Large LCD display with clearly visible characters (13.5mm)

- External calibration
- Tar
- Battery operation with 4 AA size dry batteries (batteries are included)
- · Long battery life: approx. 500 hours with alkaline cells
- Optional AC adapter
- Automatically turns off the display after 5 minutes of inactivity
- Delivered with a storage box
- Anti-theft lock
- Three colour bars to sort scales easily not HT-120 (e.g., colour coded identification depending on classroom, lab, application...)

Model	Capacity	Resolution	Pan Size
HT-120	120g	0.01g	Ø 70mm
HT-300	310g	0.1g	132 × 130mm
HT-500	510g	0.1g	132 × 130mm
HT-3000	3100g	1g	132 × 130mm
HT-5000	5100g	1g	132 × 130mm

Options & Accessories	Model
AC adapter UK	AX-TB264U
AC adapter EU	AX-TB263E
Stainless steel pan (not HT-120)	HT-OP-10

Standard functions









HL-i Compact Scales



- High weighing resolution (1/2,000)
- Large LCD Display
- Calibration function
- AC Adapter (option) or battery operation
- Long Battery Life: approx. 450 hours with alkaline cells
- Auto Power OFF
- Batteries included (4 x AA)
- · Low battery indicator
- Multi weighing units
- Tare
- · Overload protection

Model	Capacity	Resolution	Pan Size
HL-200i	200g	0.1g	Ø 130mm
HL-2Ki	2000g	1g	Ø 130mm

Options & Accessories	Model
AC adapter UK	AX-TB264U
AC adapter EU	AX-TB263E











FC-i/FC-Si

High-Performance Counting Scales



Simple operation and easy to read Vacuum Fluorescent Display

More flexible and versatile with additional options







Optional interface to remote scale for bulk counting

FC-Si with optional traffic light and optional comparator relay interface

Model	Min. Piece Weight (Normal Mode)	Min. Piece Weight (Fine Mode)	Capacity	Resolution	Pan Size
FC-500Si	0.001g	0.00005g	500g	0.02g	128 × 128mm
FC-5000Si	0.01g	0.0005g	5kg	0.2g	165 × 165mm
FC-500i	0.01g	0.0005g	500g	0.05g	205 × 152mm
FC-1000i	0.02g	0.001g	1kg	0.1g	205 × 152mm
FC-2000i	0.04g	0.002g	2kg	0.2g	300 × 280mm
FC-5000i	0.1g	0.005g	5kg	0.5g	300 × 280mm
FC-10Ki	0.2g	0.01g	10kg	1g	300 × 280mm
FC-20Ki	0.4g	0.02g	20kg	2g	300 × 280mm
FC-50Ki	1g	0.05g	50kg	5g	300 × 280mm

Options & Accessories	Model
NiMH rechargeable battery pack (10 hours operation)	FC-OP-02i
Module with 2 RS-232C ports - 3 ports in total *	FC-OP-03i
RS-232C port & 1 comparator relay output *	FC-OP-04i
Remote scale option (incl. AX-NJC-207PF plug)	FC-OP-05i

*FC-OP-04i and 03i cannot be installed at the same time

- High internal resolution: 1/10,000,000 (FC-Si), and 1/1,000,000 (FC-i)
- Up to 3 RS-232C ports (option)
- · 4 methods to initialize the unit weight: sample, memory, keyboard input, bar code
- FC-Si models come with SHS sensor, same as one of our laboratory balances
- Large memory for up to 500 IDs (ID, name, unit weight, tare, comparator limit)
- · Navigation system with LEDs indicating active keys for easy and faster operation
- Automatic counting accuracy improvement (ACAI)
- Comparator with HI (exceeding), OK, and LO (insufficient)
- Accumulation function totals piece count into memory
- · Remote platform option offers bulk counting
- UFC: easy formatting of your RS-232C outputs and labels for printers (Universal Flexible Comms)
- Optional rechargeable battery pack (NiMH)

Standard functions

























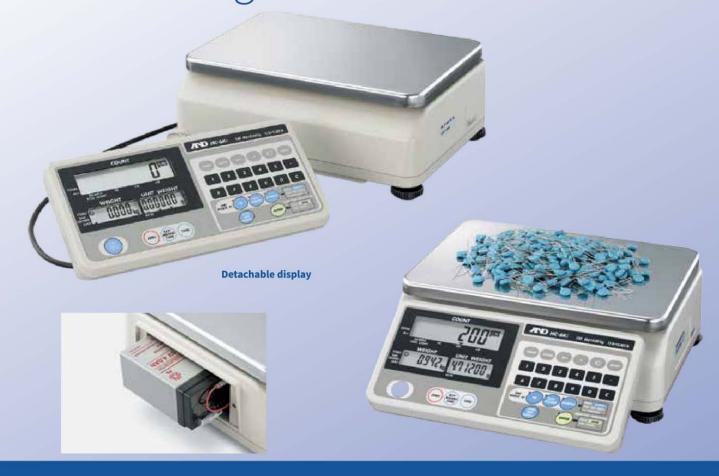








HC-i Counting Scales



Internal, rechargeable battery pack (optional)

HC-6Ki

Model	Min. Piece Weight (Normal Mode)	Min. Piece Weight (Fine Mode)	Capacity	Resolution	Pan Size
HC-3Ki	0.1g	0.005g	3kg	0.5g	300 × 210mm
HC-6Ki	0.2g	0.01g	6kg	1g	300 × 210mm
HC-15Ki	0.4g	0.02g	15kg	2g	300 × 210mm
HC-30Ki	1.0g	0.05g	30kg	5g	300 × 210mm

Options & Accessories	Model
Internal, rechargeable battery pack (80 hours)	HC-OP-02i
RS-232C interface	HC-OP-03i
RS-232C and comparator relay output	HC-OP-04i
Display extension cable 2m	HC-OP-08i

- High resolution of 1/600,000 or 1/750,000
- · Ability to count even small objects down to
- · 3 methods to initialize unit weights: sample, memory, and keyboard input
- · Large memory for 99 products incl. tare, unit weight and comparator limits
- · Navigation system with LEDs indicating active keys for easy and faster operation
- Automatic Counting Accuracy Improvement (ACAI)
- Comparator with HI (exceeding), OK, and LO (insufficient) results
- Accumulation function totals piece count into memory
- Beeping function with frequency variation as you approach your preset target
- UFC: easy formatting of your RS-232C outputs and labels for **printers** (Universal Flexible Comms)

Standard functions































SW Platform Scales - IP69K Super Washdown



The large LED screen is highly visible and intuitive. Capacitive keys prevent damage from sharp objects, thus contribute to maintain the integrity of the equipment



The desktop/wall-mount stand can be selected instead of the pole stand



The pole can be set up on the end side or on the longitudinal side depending on your ergonomic requirements

Model	Capacity	Resolution	Verification Value	Pan Size
SW-6KS	6kg	0.5/1/2g	.	250 × 250mm
SW-6KS-EC	6kg	2g	2g	250 × 250mm
SW-15KS	15kg	1/2/5g	9 7	250 × 250mm
SW-15KS-EC	15kg	5g	5g	250 × 250mm
SW-15KM	15kg	1/2/5g	-	300 × 380mm
SW-15KM-EC	15kg	5g	5g	300 × 380mm
SW-30KM	30kg	2/5/10g	≥ (300 × 380mm
SW-30KM-EC	30kg	10g	10g	300 × 380mm
SW-60KM	60kg	5/10/20g	•	300 × 380mm
SW-60KM-EC	60kg	20g	20g	300 × 380mm
SW-60KL	60kg	5/10/20g	•	390 × 530mm
SW-60KL-EC	60kg	20g	20g	390 × 530mm
SW-150KM	150kg	10/20/50g		390 × 530mm
SW-150KM-EC	150kg	50g	50g	390 × 530mm
SW-150KL	150kg	10/20/50g	(B)	390 × 530mm
SW-150KL-EC	150kg	50g	50g	390 × 530mm

Models with "-EC" at the end are EC-type approved. "2nd stage verification" is available as an optional service.

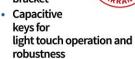
Options & Accessories	Model
Sealed, lead acid rechargeable battery	HC-OP-02i
RS-232C and comparator relay output*	SW-OP-03
RS-422/485*	SW-OP-04
Short pole stand - for SW-6KS/15KS (approx. 35.3cm)	SW-OP-09
Long pole stand (approx. 72.2cm)	SW-OP-10
Desktop/wall-mount stand	SW-OP-11

 * OP-03 and OP-04 cannot be installed at the same time. The connectors of optional OP-03 and OP-04 are not IP69K.

For 2nd stage verification (ex works) the postcode of point of use is required

- IP69K the highest level of dust and water-proofing:
- » High pressure: ~ 10,000 kPa / 100 bars / 1,450 PSI
- » High temperature: ~85°C
- EC-type approved
- Auto tare (comparator)
- Auto tare (initial weight)
- Auto tare (reload)
- Negative in addition to positive comparator (loss-inweight and weight-in-weight batching)
- Grading
- Ultimate protection against the effects of condensation
- Streamlined construction for easy cleaning of foodprocessing residues
- Stainless steel: sensor, pan, framework, column

 Durable and adjustable indicator bracket



- Bright, multicoloured LED display
- 5-step comparator for check weighing and filling applications
- 5-level comparator output with colour lights: red, orange, green
- Desktop/wall-mount stand available instead of the pole stand
- Optional rechargeable battery
- Optional interfaces: RS-232C + comparator, RS-422 / RS-485

Standard functions















SB/SB-SW Platforms







SB SB-SW

SB Platforms IP65

Model	Capacity	Pan Size
SB-15K10	15kg	250 × 250mm
SB-60K11	60kg	330 × 424mm
SB-100K12	100kg	390 × 530mm
SB-200K12	220kg	390 × 530mm







SB-SW Platforms IP69K

Model	Capacity	Pan Size
SB-6K13SW	6kg	250 × 250mm
SB-15K13SW	15kg	250 × 250mm
SB-15K14SW	15kg	300 × 380mm
SB-30K14SW	30kg	300 × 380mm
SB-60K14SW	60kg	300 × 380mm
SB-150K14SW	150kg	300 × 380mm
SB-60K15SW	60kg	390 × 530mm
SB-150K15SW	150kg	390 × 530mm

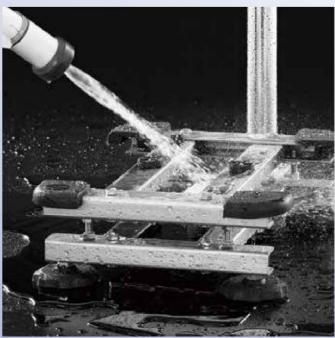
- IP69K the highest level of dust and waterproofing:
 - » High pressure: ~ 10,000 kPa / 100 bars
 - » High temperature: ~85°C
- · Ultimate protection against the effects of condensation
- · Streamlined construction: ideal for wash down applications
- · Stainless steel: sensor, pan, framework





SC/SE Platform Scales - IP68 Excellent Resistance to Hostile Environments!





Water jet cleaning

Stainless steel frame (SC)



Painted steel frame and column (SE)

- IP68 dust and water-proof: submersible at 1m under water for 24 hours!
- Wash down construction for easy cleaning
- · High speed stabilization in 1 second
- Battery operated
- 4,500 hours of continuous operation with 6 D batteries
- Supersized LCD of 39 mm character height
- Stainless steel weighing pan and frame (SC)
- Painted steel frame and column (SE)
- Waterproof and corrosion-resistant load cell (aluminium anodized and coated with epoxy resin with protective silicon over wiring)
- Comparator function
- Counting function
- Automatic power OFF
- Multiple interfaces (options):
- » RS-232C
- » Quick USB
- » Comparator output
- Easily switchable, multiple weighing units (kg, lb, oz, and pcs)



SC/SE Platform Scales - IP68



SC-60KAL SE-60KAL

Model	Capacity	Resolution	Verification Value	Pan Size
SC-30KAM-EC SE-30KAM-EC	30kg	5g/10g	10g	300 × 380mm
SC-60KAM-EC SE-60KAM-EC	60kg	10g/20g	20g	300 × 380mm
SC-150KAM-EC SE-150KAM-EC	150kg	20g/50g	50g	300 × 380mm
SC-60KAL-EC SE-60KAL-EC	60kg	10g/20g	20g	390 × 530mm
SC-150KAL-EC SE-150KAL-EC	150kg	20g/50g	50g	390 × 530mm
SC-30KAM SE-30KAM	30kg	5g/10g	•	300 × 380mm
SC-60KAM SE-60KAM	60kg	10g/20g	2	300 × 380mm
SC-150KAM SE-150KAM	150kg	20g/50g	-	300 × 380mm
SC-60KAL SE-60KAL	60kg	10g/20g		390 × 530mm
SC-150KAL SE-150KAL	150kg	20g/50g	Ē	390 × 530mm

Options & Accessories	Model
Quick USB interface*	SCE-02
RS-232C and comparator relay output*	SCE-03





















^{*} SCE-02 and SCE-03 cannot be installed at the same time.
* The connectors of optional SCE-02 and SCE-03 are not IP68.

For 2nd stage verification (ex works) the postcode of point of use is required

FS-i Checkweighing IP65 Scales



Auto tare (comparator) Auto tare (initial weight) Auto tare (reload) Negative and positive Checkweighing



FS-30Ki

Model	Capacity	Adjustable Resolution	Verification Value	Pan Size
FS-6Ki	6kg	0.5g/1g/2g		250 × 250mm
FS-6Ki-EC	6kg	2g	2g	250 × 250mm
FS-15Ki	15kg	1g/2g/5g	-	250 × 250mm
FS-15Ki-EC	15kg	5g	5g	250 × 250mm
FS-30Ki	30kg	2g/5g/10g		380 × 300mm
FS-30Ki-EC	30kg	10g	10g	380 × 300mm

Models with "-EC" at the end are EC-type approved.

"2nd stage verification" is available as an optional service.

Options & Accessories	Model
Internal rechargeable battery pack - SLA technology (80 hours)	HC-OP-02i
RS-232C and comparator relay output	FSi-OP-03i
RS-422/485 and comparator relay output	FSi-OP-04i

- · Ultra fast weighing response only 0.5 seconds!
- · Intuitive operation
- IP65 Dust and Waterproof
- · Comparator function with LO, OK or HI
- · Large comparator lights
- Analog bar display 3 modes
- · Memory for 99 products
- EC Type approved
- Hygiene NSF certified
- Large backlit LCD display
- Rechargeable battery pack (optional)
- Filtering function
- Buzzer



Standard functions



























For 2nd stage verification (ex works) the postcode of point of use is required

SJ-WP IP67 Checkweighing Bench Scales



Standard functions

















- EC type approved
- IP67, dust and waterproof
- Externally mounted load cell to allow fast stabilization (max. 0.5 seconds)
- 5,000 hours of continuous operation with 6 D alkaline batteries (LED and backlight off) (batteries not included)
- Large LCD display (26 mm character height) with white backlight
- Bright and multi-coloured 5-step LED comparator lamps
- Take-away check weighing using the auto-tare function
- Touch sensitive capacitive keys to prevent damage from sharp objects

Scratch-free and hygienic stainless steel (SUS304) weighing pan



- Waterproof and anti-corrosive load cell with integrated overload protection mechanism
- Four selectable weighing resolutions from 1/3,000 up to 1/30,000
- **Auto tare function**
- **Counting function**
- Auto power OFF function
- Multiple weighing units: g, kg, lb, oz, ozt, lb-oz, tael, tola, Newton
- Battery life indicator

Model	Capacity	Adjustable Resolution	Pan Size
SJ-3000WP	3kg	1/0.5/0.2/0.1g	232 × 192mm
SJ-3000WP-EC	1.5kg/3kg	0.5g/1g	232 × 192mm
SJ-6000WP	6Kg	2/1/0.5/0.2g	232 × 192mm
SJ-6000WP-EC	3Kg/6Kg	1/2g	232 × 192mm
SJ-15KWP	15kg	5/2/1/0.5g	232 × 192mm
SJ-15KWP-EC	15kg/30kg	2/5g	232 × 192mm
SJ-30KWP	30kg	10/5/2/1g	232 × 192mm
SJ-30KWP-EC	15kg/30kg	5/10g	232 × 192mm

Options & Accessories	Model	
XL- weighing pan 320 x 195 mm	SJ-OP-11	

HT-CL Checkweighing Compact Scales













- Highly-visible, multi-coloured LED lights for quick and unmistakable comparator judgments
- 9 memories for comparator settings
- Negative values for comparator limits allow for checking weights that are taken out of (instead of added to) a container*1



- · Operation with either four AA batteries or the provided AC adapter
- Large LCD display with 13.5-mm high characters
- Auto power OFF function to avoid wasting power
- Multiple weighing units: g, oz, ozt, lb-oz, dwt, ct, tael (HK general/ HK jewelry/Taiwan), tola, and N*2
- Security slot at the back to accommodate an anti-theft lock
- Key lock function to prevent operators from making changes to the scale settings
- Comes in a stackable carrying case to save space when stored
- Includes three colour bars (red, green and orange) for sorting the scales depending on the purpose, owner, point of use, etc.
- *1 The display needs to be set to zero before each measurement.
- *2 The comparator function cannot be used with lb-oz or tael, and lb-oz is not available with the HT-300CL.

Model	Capacity	Resolution	Pan Size
HT-300CL	310g	0.1g	132 × 130mm
HT-500CL	510g	0.1g	132 × 130mm
HT-3000CL	3100g	1g	132 × 130mm
HT-5000CL	5100g	1g	132 × 130mm

Options & Accessories	Model
Stainless steel weighing pan	HT-OP-10

SK-WP **IP65 Bench Scales**



- EC type approved
- **Dust and waterproof (IP65)**
- Stainless steel body and weighing pan
- Large & clear LCD display (25mm)
- 1/2,000 Resolution (SK-5001WP: 1/5,000)
- Net weight / Stability indication
- Separate keys for Power and Re-Zero
- **Portable** (6 D type batteries, batteries not included)
- Long battery life: approx. 1,200 hours with alkaline cells at 20°C
- · Low battery indication
- Auto Power Off
- · Optional AC adapter

Model	Capacity	Resolution	Verification Value	Pan Size
SK-1000WP-EC	1000g	0.5g	0.5g	232 × 192mm
SK-2000WP-EC	2000g	1g	1g	232 × 192mm
SK-5000WP-EC	5000g	2g	2g	232 × 192mm
SK-5001WP	5000g	1g	(e)	232 × 192mm
SK-10KWP-EC	10Kg	5g	5g	232 × 192mm
SK-20KWP-EC	20Kg	10g	10g	232 × 192mm
SK-30KWP-EC	30Kg	20g	20g	232 × 192mm

Options & Accessories	Model
AC adapter UK	AX-TB264U
AC adapter EU	AX-TB263E

Standard functions















HL-WP IP65 Bench Scales



- EC type approved (HL-3000WP/HL-3000LWP)
- **Dust and waterproof** (IP65)
- Stainless steel case and weighing pan
- Compact design
- High resolution (1/3,000)
- · Low battery indicator
- Portable (6 AA type batteries, batteries not included)
- · Net weight and stability indicator
- Auto power OFF
- Optional AC adapter

Model	Capacity	Resolution	Verification Value	Pan Size
HL-300WP	300g	0.1g	_	128 × 128mm
HL-1000WP	1000g	0.5g	-	128 × 128mm
HL-3000WP-EC	3000g	1g	1g	128 × 128mm
HL-3000LWP-EC	3000g	1g	1g	133 × 170mm

Options & Accessories	Model
AC adapter UK	AX-TB264U
AC adapter EU	AX-TB263E

Standard functions

















For 2nd stage verification (ex works) the postcode of point of use is required



Weighing Terminals

AD-4401A-EC

Batching/Weighing Indicator



EC-type approved

Model

Powerful vibration-cancelling filter (High Performance Digital Filter)



- Up to 1 million counts of A/D resolution
- High display resolution up to 1/16,000
- Sub display provides feedback on all set points & simplifies calibration
- Digital Span Calibration enhances technical support and difficult installations

Description

AD-4401A-EC High speed weighing indicator		weighing indicator
Options & Accessorie	S	Model
BCD output		AD-4401A-OP-01
RS422/RS485 serial in	nterface	AD-4401A-OP-03
RS-232C serial interfa	ice	AD-4401A-OP-04
Set point unit		AD-4401-OP-06
Analog output (4-20n	nA)	AD-4401A-OP-07

Standard functions











Multi Functional Weighing Indicator











- · EC type approved
- High speed sampling up to 100 times/sec.
- High display resolution up to 1/16,000
- A/D resolution up to 1/1,000,000
- Alpha numeric key pad
- Splash proof IP65 front panel
- Nozzle control & agitator sequence
- Batch weighing, filling & sequence control
- Stores 100 material codes & 100 recipe codes
- Large Vacuum Fluorescent main and 4-line sub display
- Standard current loop and RS-485 serial output allows you to connect up to 32 units to a PC/PLC

Model	Description		
AD-4402-EC	Multi functiona	Multi functional weighing indicator	
Options & Accessories		Model	
Parallel BCD output		AD-4402-OP-01	
Comparator relay output	t	AD-4402-OP-02	
RS-422/RS-485 I/O		AD-4402-OP-03	
RS-232C I/O		AD-4402-OP-04	
Parallel I/O		AD-4402-OP-05	
Analog output		AD-4402-OP-07	
CC-Link interface		AD-4402-OP-20	
Device Net interface		AD-4402-OP-21	
PROFIBUS interface		AD-4402-OP-22	







AD-4404 Checkweighing Indicator





AD-4404

- · 100 times/sec. high speed sampling
- · High display resolution up to 16,000 counts
- · Up to 1 million counts of A/D resolution
- 3 or 5 level comparator with standard control I/O output for connection to lights, buzzer, PLC etc
- · Foreign material detection input
- Bar graph shows where the weight of an object falls within the OK range
- Built in timer controls the weighing sequence triggered by external photoelectric switch or programmable weight recognition, ideal for transparent objects
- Weight, accepted piece, accumulated piece count, name of the object weighed, and standard deviation can be displayed at the touch of button
- Up to 100 sets of target (OK weight), HI, LO and Tare can be stored by individual code number
- 5 digits of target and 4 digits of upper and lower limit can be set by the front key operation and number of digit and its location can be customized.
- · Sealed keys keep out dust in industrial environments

- Standard current loop output and standard RS-485
- Full digital calibration makes zero and span calibration a breeze
- Stores and recalls up to 100 sets of pre-set items by ID code number.
- » Total number of pieces checked
- » Total number of pieces accepted
- » Target weight
- » Bar graph indicates deviation from target weight
- · Heavy-duty construction,
- · Easy installation,
- Simple calibration
- 11 inputs and 11 open collector outputs as standard (optional dry contact relay)
- · Front panel key lockout prevents operator tampering
- Fully selectable decimal point positioning
- Programmable gravity compensation
- Selectable units of measurements: None, g, kg, t, lbs (USA)

модеі	Description	
AD-4404	Advanced checkweighing indicate	or
Options & Acc	cessories	Model
BCD output		AD-4404-OP-01
Relay output		AD-4404-OP-02
RS-422/RS-48	85 I/O	AD-4404-OP-03
RS-232C I/O		AD-4404-OP-04
Parallel I/O		AD-4404-OP-05
Analog output		AD-4404-OP-07













AD-4430B/C

Ultra compact weighing module with BCD output or CC-Link. For use in unstable weighing environments





- DIN rail mounted type ideal for insertion into control board
- Powerful vibrationcancelling function (High Performance Digital Filter)
- High speed sampling (1,000/sec) High accuracy
- BCD input/output as standard feature (B)
- Load cell connection failure diagnosis function
- Equipped with powerful noise suppression circuit

- Accurate linear correction function using high-order equations
- Equipped with averaging hold, peak hold and comparator functions
- Sequential filling/ dispensing measurement capability (AD-4430C)
- Active free fall compensation (AD-4430C)
- I/O points (6 inputs, 8 outputs) as standard (C)

Model	Description
AD-4430B	Weighing module with BCD
AD-4430C	Weighing module with CC-link

AD-4530

Digital Indicator for Strain Gauge Sensors. Suitable for measurement of load, pressure, torque, tension, and more



- Digital Zero (DZ) stores zero data at any measurement point. This function can also be used to tare weight.
- The digital filter provides stable measurement results.
- Digital span calibration means easy calibration just by inputting the rated output of a sensor. No need to use a mass.
- Hold function. Selectable from sample hold, peak hold, bottom hold and bipolar peak hold. The peak hold function allows the user to capture the

- peak value and easily obtain the maximum value of a destruction test or tightening torque.
- Latch function holds display value/comparator (optional)/analog output (optional)/serial output (optional) corresponding to external latch input.
- Various data output (optional). Necessary data can be easily obtained using optional comparator relay output, serial output (RS-485/ RS-232C), D/A voltage output and D/A current output.

*For options as AD-4531 below

Model	Description	
AD-4530	Digital indicator for strain gauge sensors	

AD-4531B

Multifunctional Digital Indicator for Strain Gauge Sensors





- Suitable for load, pressure, torque or tension measurement plus more
- · Digital span calibration possible without using an actual load
- · Zero correction value can be backed up
- · Various output options available
- · Performs A/D conversion at 100 times per second

Houct	Description	Pescription	
AD-4531B	Multifunctional digital indicator for strain gauge sens		
Options & Access	ories *	Model	
Relay output		AD4530-200	
RS-485		AD4530-030	
RS-232C		AD4530-040	
D/A Analog output (0-10V or 4-20mA)		AD4530-007	
Relay/RS-485/D/A	A Analog output	AD4530-237	
Relay/RS-232C/D	/A Analog output	AD4530-247	

^{*}Only one option can be used at a time

AD-4532B

Ultra High Speed







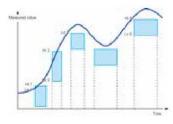
Standard functions







- Tricolour (orange, green & red) LED Display
- Comparator results are controlling the display colour: orange for LO, green for OK, and red for HI
- Super high-speed sampling at 2000 times/sec
- **Enhanced comparator** function: 2D - 5 levels
- In addition to a simple comparison of the upper/ lower limit, the AD-4532B is equipped with a 2D comparator function that



- shifts between various sets of upper/ lower limits (up to five sets) depending on:
- » time (see graph)
- » or external signals
- · Digital calibration possible without an actual load
- Multiple hold functions (sample hold to memorize current value, peak hold, bottom hold, or bipolar peak hold)
- · Chatter-prevention function
- Large variety of input and output methods
- Relay output with a longlife MOSFET relay
- Standard support of Modbus-RTU

Model	Description
AD-4532B	High speed indicator with 2D 5-level comparator

Options & Accessories	Model
BCD output (40-pin FCN connector)	AD-4532B-OP-01*
RS-232C (D-sub 9 pin)	AD-4532B-OP-04
D/A Analog output (±10V and 4~20mA)	AD-4532B-OP-07*
Ethernet interface (RJ-45)	AD-4532B-OP-08

Options 01 and 07 are provided with appropriate connectors. Note: Options 01, 04, 07 and 08 cannot be installed at the same time.

AD-4408A/C-EC

Field-Network-Support – High-Performance Filtering







- Direct connection to CC-Link with the CC-Link interface (provided as standard), (C)
- High-performance digital filtering that eliminates the effects of strong vibration
- · Simple design to facilitate connection to a PLC
- High-speed (100 times/sec.), highly-accurate performance
- Compact, lightweight body makes it ideal for mounting into a
- Up to 64 units can be connected with one master unit (when configured with the AD-4408C)
- · Wide zero and span adjustment ranges
- · Dust and water-proof IP65 keyboard and display
- · Highly tolerant against electromagnetic interference

Model	Description
AD-4408A-EC	Indicator with field bus support
AD-4408C-EC	Indicator with CC-link

Options & Accessories	Model
Profibus plug in	AD-4408A-01*
Modbus-RTU plug in	AD-4408A-02*
Device Net plug in	AD-4408A-03*

^{*} Options 01, 02, 03 cannot be installed at the same time

AD-4410

High Speed Weighing Indicator



- Powerful vibration-cancelling function (High Performance Digital Filter)
- High speed sampling (100 times/second), high accuracy
- Circuits equipped with powerful noise reduction
- · Accurate linear correction function using high-order equations
- · Average holding function
- · Comes equipped with Modbus-RTU

Model	Description	
AD-4410	Vibration-resistant weighing indicator	
Options and A	Accessories	Model
RS-485 DIN co	onnector	AD-4410-OP-03
RS-232 DIN co	onnector	AD-4410-OP-04
Desk stand		AD-4410-OP-11

AD-4329A Multi Interval Indicator



- Vacuum Fluorescent Display
- Standard RS-232C interface
- 4-point digital linearization
- Triple range on weighing capacity are available
- Automatic or manual storage of accumulated data
- Comparator output to optional relays
- Set-point comparison for batching applications
- Select weighing range (up to triple range)

1/20,000 displayed count resolution (maximum)



- Powers up to 8 units of load cells
- · Controllable via external input
- RFI/EMI protected
- Mount on panel, column or desk top
- Use the keypad to enter the predetermined tare weight

Model	Description	
AD-4329A	Weighing indicator	
Options and A	ccessories	Model
BCD output (o	pen collector)	AD-4329A-OP-01
Comparator o	utput (relay output)	AD-4329A-OP-02
RS-422/485		AD-4329A-OP-03
Analog output	t (4-20mA)	AD-4329A-OP-07

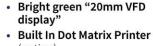




AD-4405-EC







EC type approved

(option)

- Multi interval, 2 weighing ranges selectable
- 10 alpha numeric keys for preset tare and "unit weight" setting etc.
- A/D resolution 1/40,000
- · Counting function
- · Accumulation function
- Comparator function
- · Simple batch weighing
- Standard RS-232C
- Buzzer function
- · Date and time
- · Code memory function

Model	Description	
AD-4405-EC	Weighing indicator	
Options & Acce	ssories	Model
RS422/RS485 C	omparator and relay output	AD-4405-OP-03
RS-232C Relay	output and control input	AD-4405-OP-05
Build-in printer	•	AD-4405-OP-06
Analog output	(4-20mA)	AD-4405-OP-07
Load cell cable	connector	AX-NJC-207-PF
Ink ribbon (1pc) for OP-06	AX-ERC-05-1S
Paper rolls (8pc	cs.) for OP-06	AX-PP156-S

Standard functions













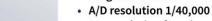












- EC type approved
- Big LCD display, 25mm characters
- F1, F2 selectable function keys
- Multi interval, 2 weighing ranges selectable
- **Accumulation function**

Description

- Comparator function
- Simple batch weighing
- **Buzzer function**
- Display stand (option)
- RS-232C (option)
- Multi power supply: battery operated or AC adapter (option)

AD-4406-OP-07

AD-4406-OP-11

AX-NJC-207-PF

AD-4406-EC	weigning indicator	
Options & Acce	ssories	Model
RS422/RS485 C	omparator and relay output	AD-4406-OP-03
RS-232C		AD-4406-OP-04
RS-232C Relay	output and control input	AD-4406-OP-05

Standard functions























Standard functions















· EC type approved

Analog output (4-20mA) Display stand

Load cell cable connector

- IP65, dust & water protected
- A/D resolution 1/40,000
- Bright green "20mm VFD display"
- Multi interval, 2 weighing ranges selectable
- · 10 alpha numeric keys for preset tare and units weighing setting etc.
- Counting function
- **Accumulation function**
- **Comparator function**
- Simple batch weighing
- Standard RS-232C
- **Buzzer function**
- · Code memory function

Model	Description	
AD-4407-EC	Weighing indicator	
AD-4407-EC	weigning indicator	

Options & Accessories	Model	
RS-422/RS-485 Comparator and relay output	AD-4407-OP-03	
RS-232C Relay output and control input	AD-4407-OP-05	
Analog output (4-20mA)	AD-4407-OP-07	
RS-232C Current loop o/p,	AD-4407-OP-08	
Relay o/p (3) & control input (1)	AD-4407-OP-08	

FS-D IP65 Indicator with 3-level Comparator



- · Intuitive operation
- IP65 dust and waterproof
- Comparator function with LO, OK, or HI
- Large comparator lights
- Analog sweep display 3 modes
- Memory for 99 products
- Hygiene NSF certified
- Large LCD display with backlight
- Rechargeable battery pack (optional)
- Filtering function
- **Auto tare**
- **Negative** weighing
- Desktop/wall-mount bracket included as standard

Model	Description	
FS-D	IP65 indicator with 3-level-comparator	
Options & Ad	ccessories	Model
Internal, rec	hargeable battery	HC-OP-02i
RS232C with	comparator output*	FS-OP-03i
RS-422/485*		FS-OP-04i

^{*}OP-03 and OP-04 cannot be used at the same time

Standard functions

















Optional





SW-D IP69K Indicator with 5-level Comparator



Standard functions











- · IP69K the highest level of dust and water-
 - High pressure: ~ 10,000 kPa / 100 bars
 - » High temperature: ~85°C
- · Ultimate protection against the effects of condensation
- · Capacitive keys for light touch operation and durability
- Bright, multicoloured LED display
- 5-step comparator for check weighing and filling applications
- · 5-level comparator output with colour lights: red/orange/green
- Auto tare
- **Negative** weighing
- Grading
- Optional desktop/wall-mount bracket

Description

- Optional rechargeable battery
- Optional interfaces: RS-232C + comparator, and RS-422 / RS-485

h Kindhalbahah Ki	Illustrated add addated		
SW-D	IP69K indicator with 5-level comparator		
Options & Ac	cessories	Model	
Internal, rec	hargeable battery	HC-OP-02i	
RS-232C & co	omparator relay output*	SW-OP-03	
RS-422/485*		SW-OP-04	
Short pole (S	SW-6KS/SW-15KS)	SW-OP-09	
Long pole		SW-OP-10	
Desktop/wal	Il-mount stand	SW-OP-11	

*OP-03 and OP-04 cannot be used at the same time. When using OP-03 or OP-04 the indicator has IP65.



Accessories

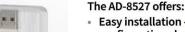
AD-8527 Quick USB Adapter

62

Transmits weighing data directly from the RS-232C port of an A&D balance or scale to the USB port of a PC. Makes the data available at application level







 Easy installation - "Plug & Play": No configuration change on PC. No driver or software to be installed.



Easy operation: Each time your balance or scale sends a
weighing result, it appears on the screen wherever the text
cursor is (for example in a cell of MS-Excel, or in an entry field of
your MRP application). The computer recognizes the device as a
keyboard.

 Time stamping of data: date and time can be added to transmitted data

Model	Description	
AD-8527	Quick USB adapter	

AD-1688 Weighing

Data Logger

Save, Carry, and Retrieve! Handheld device that lets you collect weighing data without connecting the balance or scale to a PC!





 Dual interface: An RS-232C interface to import weighing data from an A&D balance or scale and a USB interface to export the data to a PC (no driver software is required)



- Large memory: approx. 5000 weighing data sets (in the A&D standard format) can be stored
- Internal clock: date, time, & seq. N° can be added to weighing data
- Interval mode: periodic data acquisition
- Complex data records: records containing multiple data (tare, unit weight, weight, count, comparison result, product name...).
- No battery required: receives power supply directly from a balance, scale or PC

Model	Description	
AD-1688	Weighing data logger	

AD-1687 Weighing Environment Logger

Allows simultaneous and chronological recording of environmental and weighing data.
Environmental data are produced by AD-1687 embedded sensors.
Weighing data is acquired from a balance.



- Four kinds of environmental data can be added to your weighing records:
 - » Temperature (°C/°F),
- » Humidity (%),
- » Barometric pressure (hPa),
- » Vibration (mG)
- Large memory capacity of 10,000 data sets
- Graphic and numeric display of information
- Connects to balance by RS-232C and to PC by USB
- Time stamping of data

Model	Description	
AD-1687	Weighing environment logger	

AD-1641

Air Flow and Environmental Logger



 High precision, fast response air flow sensor to capture low-velocity air flows of 0 to 1.00 m/s

Measuring and recording of four additional kinds of environmental data - temperature, humidity, barometric pressure and vibration

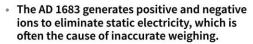
Alarm for abnormal values (comparator function)

Model	Description	
AD-1641	AD-1641 Air flow and environment logger	



AD-1683Static Eliminator







- Ideal for treating your glassware, Petri dishes, powders, samples, etc.
- No fan, no breeze is produced, ideal for powder.
- Can be easily and safely installed and requires no high-voltage wiring
- Compact and lightweight:
- · Size without its U shaped stand
 - 112mm (L) × 92mm (W) × 40mm (H)

Model	Description
AD-1683	Static eliminator

AD-1684

Electrostatic Field Meter



- The AD-1684 is an electrostatic field meter designed for detecting the existence of static electricity, which is often the cause of inaccurate weighing.
- Size: 123mm (L) × 73mm (W) × 25mm (H)



Model	Description	
AD1684	Electrostatic field meter	

AD-8526

RS-232 Ethernet Converter



- The RS-232C output signal can be converted to Ethernet
- Available to use with all A&D balances equipped with RS-232C



Model	Description	
AD-8526	RS-232 ethernet converter	

AD-1682 Rechargeable portable Power Supply



- Ideal for mobile operation in the field
- Compatible Products: GH, GR, HR, GX, GF, GP, EK-i, EW-i, FC-i, HC-i, FX-i, FZ-i, FX-i-WP, FZ-i-WP



Specifications	
Weight	Approx. 1.1kg
Battery life	4-50 hours, depending on operating conditions and connected devices
Dimensions	57(H) × 96(W) × 124(D) mm
Battery type	Nickel-metal-hydride (Ni-MH) battery

Model	Description	
AD-1682	Rechargeable portable power supply	

AD-8922A Remote Controller



 The AD-8922A is a remote controller that can be connected to certain A&D weighing instruments in order to display and control the weighing instrument remotely.



Model	Description	
AD-8922A	Remote controller	

AD-8920A Remote Display



- With this unit, weighing values can be viewed in a remote area
- Can be used with all A&D products using the RS-232C interface
- Bright Vacuum Fluorescent Display



Model	Description	
AD-8920A	Remote display	

ADI-CL130 Comparator Lights

ADI-CL130: A single lamp that changes colour



 For check weighing or filling applications: show your comparator outputs visually (orange = not enough, green = OK, red = too much).



Model	Description	
ADI-CL130	3 in 1 high contrast, bright lamp with almost unlimited service life. Stable and robust. H = 130mm.	

AD-8121B Dot-Matrix Printer



- Dot-Matrix mechanism
- Statistic function
- Date & time



Model	Description	
AD-8121B	Statistical pr	rinter
Accessories		
AX-PP143-S		Printer paper (10 rolls)
AX-ERC-05-1S		Ribbon

MCP-1000 Thermal Printers



- Thermal print mechanism
- Statistic function (MCP-1000-118S)
- Date & time



Model	Description
MCP-1000-118S	Statistical printer
MCP-1000-118	Standard printer

Accessories	
AX-PPMCP	Thermal paper (20 rolls)

WinCT Software

Software, Connectivity, Data Transfer, Labels

This software is a suite of 3 modules that have been designed to download information from your A&D balance or scale directly into your personal computer. Communication is done via a RS-232C link. A USB adaptor can be added if required.

RS-Com module: sending commands, data acquisition, printing, and virtual indicator.

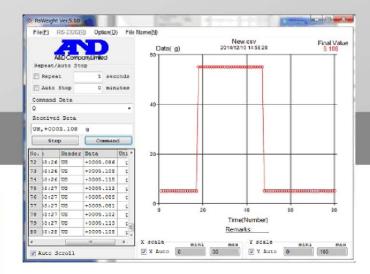
- Transmission of commands to control the balance/scale and acquisition of weighing data in text format. Periodical actions are possible in an automated manner. Available commands include among others: calibrate, ON/OFF, print, query (for "transmit") weight data, re-zero, range, sample...
- The GLP data can be transferred directly to a PC/printer, without another software application. With RS-Com the weighing data is displayed in real-time on your PC.

RS-Key module: data transfer into target applications

 Transfer of weighing results directly into your target applications. Once started, RS-Key runs in the background on your PC. Your main application runs in foreground. Each time the balance/scale sends data, it automatically appears in the active field (e.g., where the cursor is located) in your application. For example, in case of MS-Excel, you can configure RS-Key so that each new weighing data sent by the balance appears as a new line/new record.

RS-Weight module: real-time curves

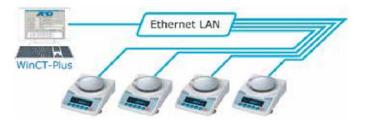
• The weighing data can be periodically retrieved from the balance/scale and displayed in graph form on the monitor in real-time. Statistics such as maximum, minimum, average, range, standard deviation and coefficient of variation values can be calculated and displayed. Individual weighing data can be time stamped and saved in a CSV file (MS Excel compatible). For example, RS-Weight is very convenient for measuring humidity intake over time or filtration speeds....

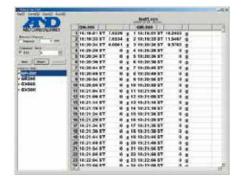


WinCT-Plus Software



WinCT-Plus is the network version of WinCT. It enables the centralized management of a network of distributed heterogeneous balances/scales. Weighing data can be collected from various weighing devices into your personal computer while ensuring traceability. Communication takes place via RS-232C or Ethernet LAN (in the latter case, balances/ scales are given IP addresses).







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