







Checkweigher with best -in-class 0.01 g resolution and high level 0.08 g (3σ) accuracy Better accuracy in high speed range improved by increased environmental resistance and newly equipped HPDF (High Performance Digital Filter)

AD-4961A-2KD2035 Stainless Steel Cover (option) + **Display Stand (option)**

0.0 g

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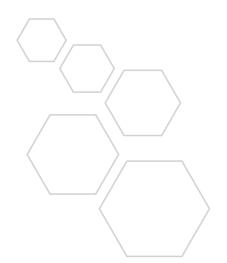
STOP START

Accuracy in high speed range is improved by max. 80%.* Contributes to increased productivity

The design has evolved to be less susceptible to wind and vibration than previous models, and environmental resistance has been greatly improved.

AD-4961A series is equipped with a new CPU which has increased processing power, and the newly implemented vibration elimination filter HPDF (High Performance Digital Filter) has been optimized to increase accuracy by up to 80% at high speeds. *

Checkweighing process can be performed better at high speed range than conventional models, contributing to improved production capacity and efficiency. * When compared to data from A&D's conventional models





A&D's Checkweighers are used by customers in a variety of industries around the world, especially in the food industry. As a weighing product manufacturer that is well received by a wide range of customers, we have developed a Checkweigher that has evolved to enable faster processing. It is equipped with a load cell developed specifically for Checkweighers and a new CPU, as well as being waterproof (IP65 grade) as standard while being priced reasonably.

High accuracy (3o): 0.08 g

A&D has achieved high accuracy (0.08 g, 3o) by installation of a newly designed digital load cell unit and a CPU which enables high speed processing.

High repeatability checkweighing by optimizing checkweighing settings

The optimum checkweighing settings are automatically set when the weight and length of weighed products, and throughput or conveyor belt speed are input. Setting for vibration elimination filter (HPDF) is also automatically selected. So, checkweighing can be performed easily regardless of the operator. Also, dynamic compensation can also be set easily by passing products through repeatedly.



Assures consistent quality by way of the Operation History function and restricting operation according to user level

Each user is registered and user level function allows you to restrict operations for each registered user.

The Operation History, which records users and operation details, as well as Weighing History can be saved onto a USB flash drive. Weighing History can be summed up as a record for HACCP management by receiving signals of inspection results from an X-ray inspection system or a metal detector.

A&D Checkweigher



e	ration History				_
	Time	User Name	Item No	Item	
1	2000/01/01 2:13:4	3 Administrator	01-001	Tare	
	2000/01/01 2:13:5	Administrator	01-001	Language	
	2000/01/01 2:14:2	7 Administrator	01-001	Target	
	2000/01/01 2:14:2	3 Administrator	01-001	Hi Limit	
	2000/01/01 2:14:3	Administrator	01-001	Hi Hi Limit	
	2000/01/01 2:14:5	Administrator	01-001	Target	-
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Touchscreen has evolved to be even easier to read and use, making it easy to set up even for first-time users. Waterproof (IP65) as standard.

Easy to install Checkweigher that can easily be integrated with other equipment.

Waterproof structure: IP65 Stainless steel cover for display unit is available as an option.

Equipped with a 7-inch color touchscreen and a new CPU, operability has been improved and AD-4961A series is easier to use.

AD-4961A series have high visibility and operability, and even first-time users can easily set up the system. By registering and displaying a photo of the weighed product, a user can immediately check what product is being produced. The standard display unit is made of a reasonably priced, waterproof resin. If preferred, a stainless steel cover is also available as an option.





USB interface as standard specification

A wide variety of external interfaces for various types of communication.

The provided contact points can be used to connect the outputs of Rejector and/or alarm, and also for the inputs from a metal detector or an X-ray inspection system, etc.

RS-232C or RS-485 (selectable) interface (for connecting to Modbus RTU, barcode reader, PC, PLC, etc.), wireless LAN functionality (for remote monitoring), wired LAN interface (for remote operation, Modbus TCP/IP, etc.), and USB interface are provided as standard features. These various connection interfaces enable a Checkweigher to be connected to an X-ray inspection system and/or metal detector.

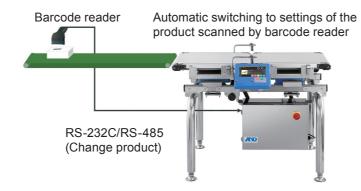
Furthermore, data can be saved to a USB flash drive and output to a printer.

In addition, the communication function enables interlocking and linking to other devices in the production line.

* Modbus is a communication protocol developed by Modicon, Inc.

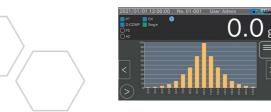
Automatic switching of product settings by reading barcode.

By reading the barcode on a product, the product settings on the Checkweigher are automatically switched to those of the scanned product. *Barcode reader shall be prepared by the customer



PDF output function reduces report creation time. Screenshots can also be saved.

Summary results, control charts, and histograms can be displayed. After checkweighing is complete, press the "PDF output" or "CSV output" key on the Summary screen of the data you want to save, and each file will be output to a USB flash drive. A screenshot of the touchscreen can easily be saved to a USB flash drive by pressing the camera icon in the upper right corner. You can use this function to create work instructions, manuals, and various reports.



Wireless LAN as standard feature enables remote monitoring. Also, remote maintenance is available.

Wireless LAN function is equipped as a standard feature. *1 *2 Various data such as Summary Data can be monitored on tablets, etc., in another room, even during weighing. Also, you can operate a Checkweigher from a PC by connecting it to a PC. In addition, the AD-4961A can be used for offsite maintenance by "remotely operating *3" a PC connected to the AD-4961A via LAN from another PC in a remote location via an Internet connection.

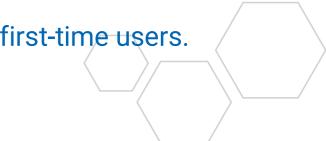
*1 The standard wireless LAN is for monitoring only and cannot be used for remote operation.

*2 Wireless LAN can be used depending on the regulations in your region. *3 In addition to the AD-4961A, other necessary equipment such as a PC and an Internet connection

must be provided by the customer.



A&D Checkweigher

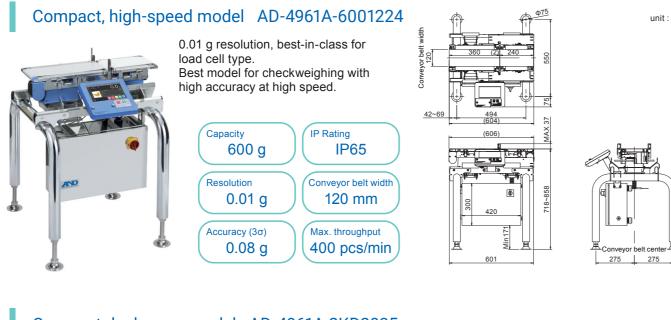




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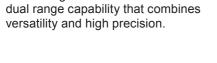
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Product line-up



Compact dual range model AD-4961A-2KD2035





IP Rating

IP65

Conveyor belt width

200 mm

Max. throughput

320 pcs/min

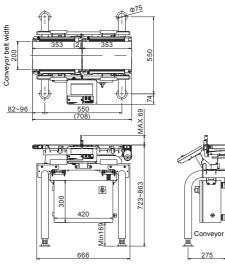
Bestselling model in the series with

Capacity (Dual range)

0.01 g / 0.1 g

Resolution

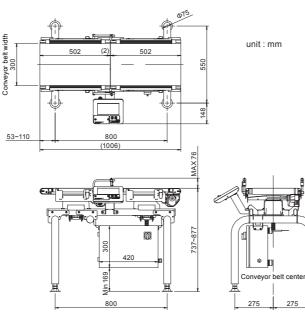
Accuracy (3o)



Mid-size model AD-4961A-6K3050

0.1 g resolution with 1 g accuracy for 6,000 g capacity model. Best model for good accuracy even on a mid-sized model.





unit : mm

unit : mm

Specification

Model	AD-4961A-6001224	AD-4961A-2KD2035	AD-4961A-6K3050		
Capacity	600 g	500 g / 2,000 g	6,000 g		
Resolution	0.01 g	0.01 g / 0.1 g	0.1 g		
Accuracy (3σ)*1	0.08 g	0.08 g / 0.18 g	1.0 g		
Max. throughput	400 pcs/min	320 pcs/min	145 pcs/min		
Conveyor belt width	120 mm	200 mm	300 mm		
Conveyor length	Weighing: 240 mm, Infeed: 360 mm	350 mm	500 mm		
Transport medium		Urethane belt			
Conveyor belt speed	15 to 12	0 m/min	10 to 80 m/min		
Product length	22 to 200 mm	30 to 300 mm	80 to 450 mm		
Max. product width	120 mm	200 mm	300 mm		
Weighing sensor		Strain gauge load cell			
Display	7-inch touchscreen color display (WSVGA)				
Operation method	Touchscreen (resistive film type), operation buttons				
Number of registrable products	1,000	ducts)			
	RS-232C or RS-485 (for Modbus RTU, barcode reader *3, PC, PLC, dump printer, etc.)				
Communication functions	Wireless LAN *4 *5 (for remote monitoring)				
Communication functions	Wired LAN (for remote operation *6, Modbus TCP/IP and PostScript printer)				
	USB (for USB flash drive [Data storage and image import use] *7)				
	Input: Non-voltage contact input 8 points (option available to expand to max. 16 points) *8				
External input/output	Output: Relay output 8 points (option available to expand to max. 20 points) *8				
Dust-/water-proof		IP65			
Operation temperature / humidity range	0 to 40°C / ł	numidity 85% or less (with no co	ondensation)		
	Single phase AC100 to 240 V (+10% / -15%), 50 / 60 Hz, Approx. 180VA				
Power supply	Electric power source should be connected to terminal (M4).				
	Power ca	able should be provided by the c	customer.		
Weight *2	Approx	. 35 kg	Approx. 50 kg		
	Weighing unit: S	stainless steel and PP resin Dis	splay: ABS resin		
Material	Conveyor unit: Alum	iinum (alumite coating), stainles	s steel and PP resin		
	Control unit: Stainless steel, PP resin and PE resin Base unit: Stainless steel				

*1 Depends on the shape and the condition of the product and installation environment

*2 Weight is for the standard condition without option and/or Rejector. *3 Barcode reader shall be prepared by the customer.

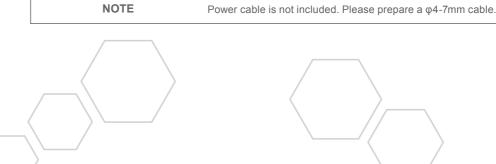
*4 Reception sensitivity of wireless LAN depends on radio wave environment. For continuous monitoring, it is recommended to

use a combination of the HMI indicator and the Modbus communication function via RS-485 or wired LAN as communication may be interrupted.

*5 Wireless LAN can be used depending on the regulations in your region.

*7 USB flash drive should be formatted in FAT32.

*8 Maximum number of input/output points that can be added will depend on the combination of additional input/output points. Please consult with your sales staff for further detail.



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*6 An Internet connection and a system for remote operation are required. Please consult with your sales staff for further detail.



Calibration Weight

	OIML Class F1 Max. tolerance	Model
500 g	±2.5 mg	AD-1603-500F1
1 kg	±5.0 mg	AD-1603-1KF1
2 kg	±10 mg	AD-1603-2KF1
5 kg ±25 mg		AD-1603-5KF1

A&D Inspection Systems

Metal Detector AD-4976 Series

Model	Aperture width	Aperture height	Conveyor width	Maximum pass height
AD-4976-3510	350 mm	100 mm	250 mm	80 mm
AD-4976-3517	350 mm	170 mm	250 mm	150 mm
AD-4976-3525	350 mm	250 mm	250 mm	230 mm
AD-4976-4517	450 mm	170 mm	350 mm	150 mm
AD-4976-4525	450 mm	250 mm	350 mm	230 mm

X-ray Inspection System AD-4991 Series



- specification.
- performed as options.

Model	Conveyor width	Maximum X-ray power output
AD-4991-2510	250 mm	100 W (50 kV_2 mA)
AD-4991-2515	250 mm	150 W (50 kV_3 mA)
AD-4991-3530	350 mm	300 W (75 kV_4 mA)

Options



 Check for metal contaminant Check for missing metal item (e.g. aluminum sachet) ✓ Or both inspections above simultaneously (option) ✓ Sensor head is separately available

✔ Contaminant inspection not only for metal, but also other materials such as for resin, glass, rubber, stone, etc., with high detection sensitivity by contrast adjustment function. ✔ Other inspections such as Count, Position, Shape, Weight estimation can be performed simultaneously as standard

✓ Missing inspection and Seal inspection can also be

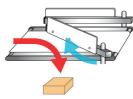
A&D Rejector

Automatic sorting of non-conforming products by the Rejector prevents human error and increases productivity.

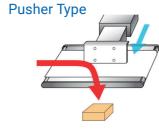
Rejector automatically sorts conforming products and non-conforming products according to inspection results from A&D's inspection system. Select a sorting system according to the shape of the product, etc.

Line-up

Flipper Type



Conveyor Drop Type



Flipper Type AD-4981 Series

Arm swings to automatically reject non-conforming products off the conveyor. Most versatile of the sorting methods and is ideal for boxes, tall bags and cases.



Box / Case	Model	AD-4981-2057	AD-4981-2570	AD-4981-3585
	Conveyor belt width	200 mm	250 mm	350 mm
Tall bag	Screening capacity *1	120 pcs/min	100 pcs/min	80 pcs/min
Rejection direction	Conveyor belt speed	15 to 120 m/min	10 to 80m/min	10 to 50 m/min
Max. 3 ways	Air supply *2	0.51 0.2 NI Ф6 Polyureth	L/time	0.5Mpa 0.4 NL/time Φ6 mm Polyurethane tube

Conveyor Drop Type AD-4982 Series



Non-conforming products are automatically rejected down the conveyor by the movement of the conveyor. Suitable for thin bags and sheet-like materials.

Thin bag *3	Model	AD-4982-2035	AD-4982-2540	AD-4982-3550
Sheet-like	Conveyor belt width	200 mm	250 mm	350 mm
material	Screening capacity *1	150 pcs/min	100 pcs/min	60 pcs/min
Rejection direction	Conveyor belt speed	15 to 120 m/min	10 to 80 m/min	10 to 50 m/min
Max. 2 ways		0.51	Ира	0.5Mpa
	Air supply *2	0.3 NL/time		0.9 NL/time
	, in capping 2	Ф6	mm	Φ6 mm
with optional base unit		Polyureth	ane tube	Polyurethane tube





*1 Actual screening capacity is dependent on the shape and/or the condition of the screened item and/or environment of the installation room. *2 Please prepare compressed air with an air tube (polyurethane tube) to be connected to the filter regulator of the Rejector. *3 Max. height of screened products is dependent on the shape of the conveyor downstream of the Conveyor Drop type Rejector.

AD-4983-3050
300 mm
60 pcs/min
10 to 80 m/min
0.5Mpa 2.6 NL/time Φ8 mm Polyurethane tube

AD-4984-1246	AD-4984-2046	
120 mm	200 mm	
400 pcs/min	320 pcs/min	
15 to 120 m/min		
0.5M 2.4 NI Φ10 Polyureth	_/time mm	
	120 mm 400 pcs/min 15 to 12 0.5f 2.4 Ni Ф10	