

CHECKWEIGHER

AD-4965-6001224



Features

Enhanced weighing accuracy with an EMFR force balance sensor.

Leveraging the expertise we have cultivated as a balance manufacturer, we have incorporated an EMFR (Electromagnetic Force Restoration) force balance sensor. A readability of 0.002 g and a weighing accuracy of 0.012 g are achieved. It enables stable, accurate Weighing of small and lightweight item becomes more stable and accurate.

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

Registration using images imported from USB flash drive

Product images can be quickly uploaded to the Checkweigher from a USB flash drive. The images can be easily registered as a thumbnail image for each product. This makes product identification when selecting a product faster and simpler and contribute to reduce the risk of selecting the wrong product. Up to 1,000 products can be registered and categorized into 10 different groups (up to 100 products per a group).

Flexible display positioning

The position of the operation display can be selected from either the front or rear of the conveyor to suit your factory layout.

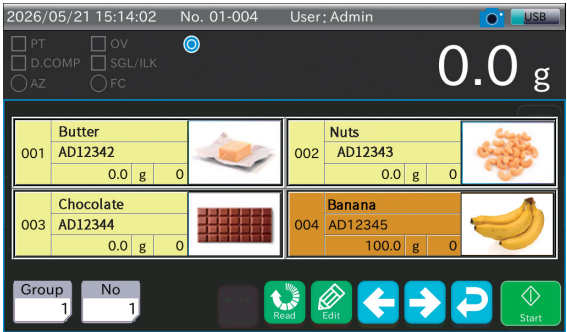
* Factory option



Display on the Front Side



Display on the Rear Side

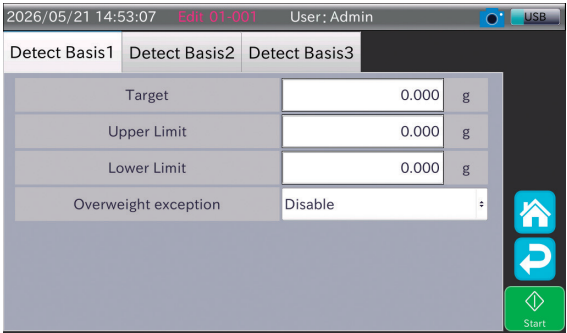
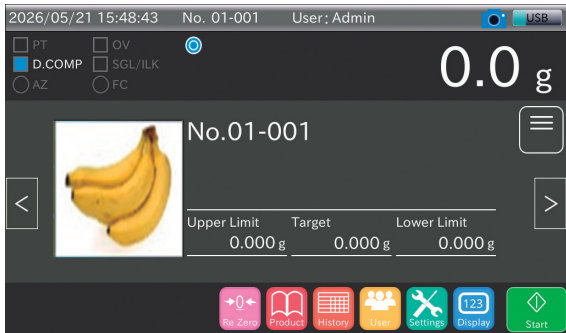


High repeatability checkweighing

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. Additionally, dynamic compensation can also be set easily by passing products through repeatedly.

Big 10.1 inch color touchscreen

Intuitive user interface and high visibility LCD color touchscreen with high-speed CPU enable easier operation.



Features

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.



Automatic switching of product settings by reading a barcode

By reading the barcode on a product, the product settings on the machines can be automatically switched to those of the scanned product. *1 *2
*1 Barcode reader should be prepared by the customer.
*2 The switch can only be performed when the conveyor is stopped.



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

Each user is registered and the user level function allows you to restrict operations for each registered user.
The Operation History, which records users and operation details, and inspection history can be saved onto a USB flash drive.
The history data can be utilized as a record for HACCP management.

The screenshot shows the Operation History screen with a table of operations. The table has columns for Time, User Name, Product No., and Item. The data is as follows:

	Time	User Name	Product No.	Item
88	2026/05/21 14:56:49	Admin	01-001	DO1
89	2026/05/21 14:56:50	Admin	01-001	DO1
90	2026/05/21 15:15:10	Admin	01-001	Product Change
91	2026/05/21 15:28:47	Admin	01-001	Zero Point
92	2026/05/21 15:58:59	Admin	01-001	Control Target
93	2026/05/21 16:02:53	Admin	01-001	Zero Point
94	2026/05/21 16:03:51	Admin	01-001	Startup User Level
95	2026/05/21 16:03:55	Admin	01-001	Weighing Conveyor
96	2026/05/21 16:03:55	Admin	01-001	Weighing Conveyor
97	2026/05/21 16:03:56	Admin	01-001	Filter
98	2026/05/21 16:03:56	Admin	01-001	Number Of Samples
99	2026/05/21 16:03:56	Admin	01-001	Judgement Timer
100	2026/05/21 16:07:35	Admin	01-001	Start / Stop Voice

Various communication methods

Equipped with extensive communication capabilities, including RS-232C, RS-485, Modbus TCP, and EtherNet/IP™ as standard.



*EtherNet/IP™ is a trademark of ODVA, Inc

Specification

AD-4965-6001224

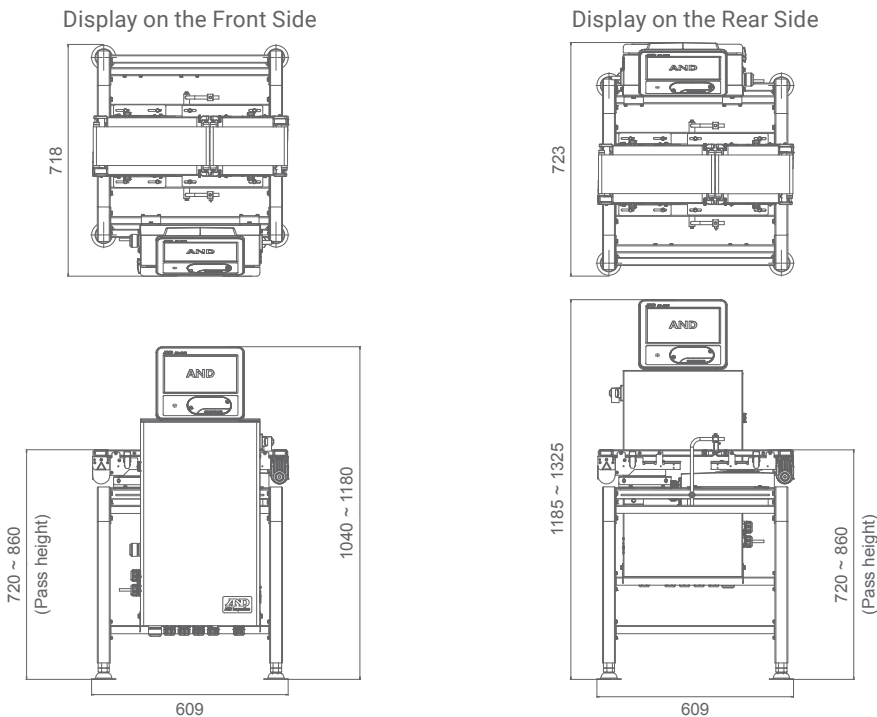
Specification

- *1 Depends on the shape and the condition of the product and installation environment.
- *2 Barcode reader shall be prepared by the customer.
- *3 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.
- *4 The wireless LAN of this product may only be used in countries or regions where it has been approved.
- *5 USB flash drive should be formatted in FAT32.
- *6 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 details.
- *7 Weight is for the standard condition without option and/or Rejector.

	AD-4965-6001224
Capacity	600 g
Resolution	0.002 g
Accuracy (3σ) *1	0.012 g
Max. throughput	400 pcs / min
Conveyor belt width	120 mm
Conveyor length	Weighing: 240 mm Infeed: 360 mm
Conveying method	Urethane belt
Conveyor belt speed	15 to 120 m / min
Product length	22 to 200 mm
Max. product width	120 mm
Weighing sensor	EMFR (Electromagnetic Force Restoration) force balance sensor
Display	LCD color display with 10.1 inch touchscreen
Number of registrable products	1,000 products (10 groups x 100 products)
Communication functions	• RS-232C or RS-485 (for Modbus RTU, barcode reader *2, PC, PLC, dump printer, etc.) • IEEE 802.11b/g/n (Wireless LAN) *3 *4 • 100BASE-T (for Modbus TCP and EtherNet/IP™, etc.) • USB (for USB flash drive [Data storage and image import use] *5)
External input/output *6	• Input: Non-voltage contact input 8 points (option available to expand to max. 24 points) • Output: Relay output 8 points (option available to expand to max. 24 points)
Dust-/water-proof	Equivalent to IP30
Operation temperature / humidity range	5 to 40°C / humidity 20 to 85 % or less (with no condensation)
Power supply	Single phase AC 100 to 240 V (+10% / -15%), 50 / 60 Hz, Approx. 180 VA Electric power source should be connected to terminal. Power cable should be provided by the customer.
Weight*7	Approx. 49 kg
Material	Display, Control box, and Base unit: Stainless steel Conveyor unit: Aluminum and Stainless steel

External view

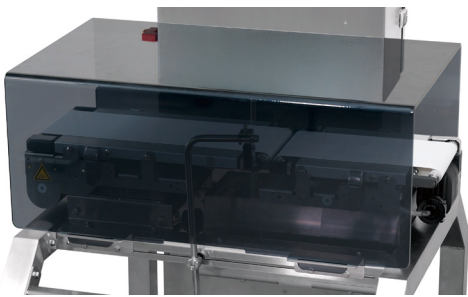
Unit: mm



Options

Upper Breeze Break *1	AD4965-60-11
Product Guide for Infeed Conveyor*2	AD4961-1236-14
Product Guide for Weighing Conveyor *2	AD4961-1224-14
Cross Plate	AD4961A-600-13
Display Stand	AD4965-01
Tower Light (Comparator Light with Buzzer) (3 colors of red, yellow and green)	AD4961-02
Additional External Output (8 points)	AD4965-43
Additional External Input (8 points)	AD4965-44

- *1 Pass-height is 130 mm.
- *2 Applicable product width is 30 to 120 mm.



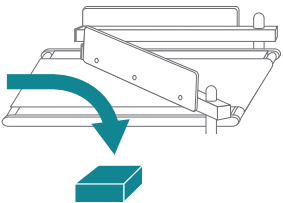
Upper Breeze Break
AD4965-60-11

Rejector*

Flipper Type AD-4981 Series

Arm swings to reject non-conforming products off the conveyor.

Box / Case	Tall bag	Rejection direction Max. 3 ways
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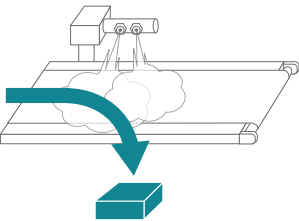


Model	AD-4981-2057
Item code	AD-4981-2057 (Complete set of Armson both sides, Conveyor & Base)
Conveyor belt width	200 mm
Max. screening capacity *1	120 pcs/min
Air supply *2	0.5 Mpa, 0.2 NL/time Φ6 mm, Polyurethane tube
Reject Confirmation (Option)	Made to build order

Air Jet Type AD-4984 Series

Air is blown to reject non-conforming products off the conveyor.

Light individually packaged product	High speed rejection	Rejection direction Max. 3 ways
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Model	AD-4984-1246	AD-4984-2046
Item code	AD-4984-1246 (Conveyor & Air Nozzle) AD-4982-11-79 (Base)	AD-4984-2046 (Conveyor & Air Nozzle) AD-4982-11-79 (Base)
Conveyor belt width	120 mm	200 mm
Max. screening capacity *1	400 pcs/min	320 pcs/min
Air supply *2	0.5 Mpa, 2.4 NL/time Φ10 mm, Polyurethane tube	
Reject Confirmation (Option)	Made to build order	

- *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.



Discover Precision

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