/inritsu

KW9001AP/KW9002AP CAPSULE CHECKWEIGHERS

- High Accuracy ±2 mg
- Capacity of 120,000 capsules/h(KW9001AP)



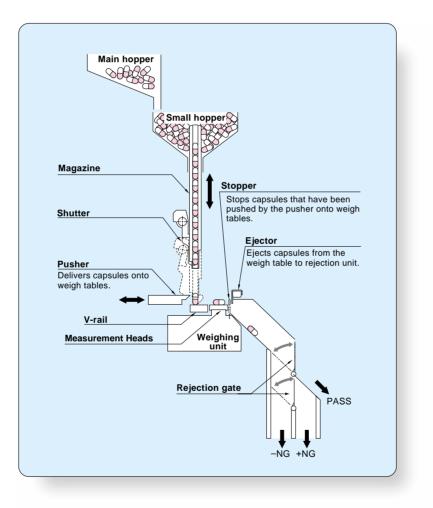
Increased speeds, higher degree of measurement accuracy . . . Capsule checkweighers with enhanced measuring capabilities now available.

Anritsu KW9001AP and KW9002AP capsule checkweighers feature unprecedented operational speeds and accuracy.

The new interactive indicator unit allows for even easier use.

Advanced rejecting confirmation, total screening data storage and easy

cleaning are also featured and meet GMP standards and validation requirements.



High-speed Operation and Increased Accuracy

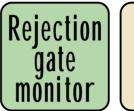
- High-speed, extremely accurate measurement performance at 120,000 capsules per hour (KW9001AP model) with an accuracy of plus or minus 2 mg is achieved.
- Weighs capsules from 20 mg to 1,000 mg.
- Maintains high precision with automatic weigh table cleaning and zero setting performed at regular intervals.
- A vibration-proof weighcell and variable cut-off digital filter (VCF) prevent floor vibrations. Dummy cell to eliminate vibrations are not used, allowing for easy maintenance.

Reliable and Safety-Assured

- The fail-safe rejection gate has been specially designed to maintain the NG direction and operate only when OK capsules pass.
- Capsule feeding is controlled by a single drive mechanism, allowing for increased reliability and power saving.
- Self-diagnosis feature performs ROM/RAM check automatically when power is on.
- Changing capsule sizes is easy using a single tool to change the magazine, V-rail and pusher units.
 - Each unit is also designed for easy cleaning and maintenance.

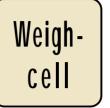


Advanced State-of-the-art Monitor Functions



gate for proper oper-

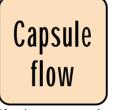
ation.



Defective

Monitors rejection Monitors the weighcell to insure zero position.

Monitors defective rate percentages for each feed line.



feeding on all lines

and alerts to jams.

Printer

Monitors capsule Monitors printer and sends an alert when printer is out of paper or jams occur.



Monitors battery voltage, to insure uniterrupted storage of reference values and other parameters. Sends alert when time for batter replacement.

Automated Operation

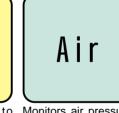
- The RS232C interface and control input/output terminals are provided as standard.
- Data management is easy. Stored data, general and alarms, can be processed.
- A lower-level sensor alerts the operator when residual capsule volume in the main hopper falls to

its prescribed level. Installation of an up-per-level sensor allows capsule feeding to be controlled for maximum efficiency.



Main hopper





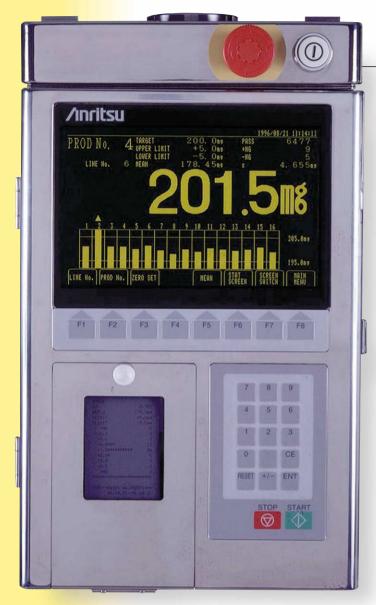
insure smooth oper- used for weigh table ation. Alerts sent for cleaning. Alert sent if any motor-related pressure falls below abnormality.

Monitors motor to Monitors air pressure specified pressure.

Validation

- Measurement accuracy can be confirmed and data stored as statistical data for each batch of 60 capsules.
- The reject gate motion is checked and auto-zero setting is performed prior to the start of operation.
- An interactive system allows for error less sensitivity calibration.
- Test validation and results available.

Easy operation. The display panel is user-friendly and easy to operate.



Enlarged image for each line Data for each line is displayed in bar graphs.

Control Panel/Display Unit

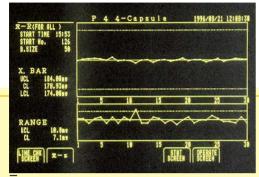
- Large, easy-to-read electro luminescence (EL) display screen.
- A printer is provided as a standard.
- All operations and displays can be performed interactively.
- Reference, upper- and lower-level values, item name and lot numbers for up to 20 different capsule types can be set. Product item changeover can be done by the touch of a key.
- Capsule damping waveforms can be monitored on the display, enabling measurement timing confirmation on a real-time basis.
- Password function is provided for secure production.
- Console position can be flexible according to installation requirements.

			- 3		
	P01 = = =	TOTAL	====:		
		99.	02.129	9.02.12	
			17:15	17:16	
	BATCH			3	
	P.NAME		K	-ZE 00	
	LOT No		01213	456789	
	TOTAL			3905	
	-NG	1.2%		46	
	PASS	98.8%		3859	
	+NG	0.0%		0	
	TOTAL W.		319	0.6515g	
	MEAN	(X)		l 7.07 mg	
	STAND D.	(S)		5.986 mg	
	MAX			335.0 mg	
	MIN	(=)	8	302.5mg	
	RANGE	(R)		32.5mg	
	CV			0.73%	
	REF.V +LIMIT			320.0mg	
	-LIMIT			+15.0mg -15.0mg	
	-NG		-	-15.0mg 46	
C	-15.0***			304	
	-11.0***	* * *		589	
	-7.0***			967	
5	-3.0***	******		920	
-	+1.0***	****		659	
	+5.0***			307	
	+13.0			9	
\sim	+NG			0	
	======		= = = = =	====	

Total Printing

< Histogram

Operation monitoring and data management the Anritsu way.



X-R/s display

Screening data along with average value, scatter and standard deviation for each line, can be monitored.



Sensitivity calibration screen

Calibration is simple after placing a reference weight on the balance.



Operational record screen

Information regarding operational management can be monitored easily.

	CLOS	e tront c	over betc	re operat	1119.			
INE	1	2	3	4	5	6V I	7	87
ACH B9	0.5	0.5	0.0	0.5	8.8	0.5	8.8	0.5
ASS PCS	647	644	641	646	641	639	641	642
HG PCS	1000	2				All and a second second		
NG PCS	10	10	- 11	10	10	10	10	1(
INE No.	9	10		12	13	14	15	16
ACH mg	0.0	0.5	0.0	0.0	8.0	0.0	-0.5	-0.5
ASS PCS	654	643	654	652	650	648	649	651
B PCS		2	0	interes (L)	8	2	A DESCRIPTION OF	1000
6 PCS	10	14	10	10	11	11	10	10

Error alarm message screen An error alarm message and action required.



Pre-setting screen

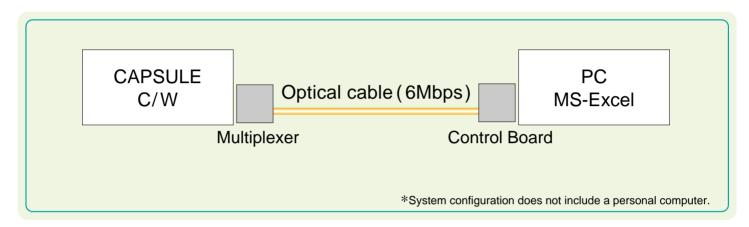
The reference, upper-limit and lower-limit values, item name and lot numbers for up to 20 different capsule types can be set.

Data Recording System(Software)KW2051A

Capsule checkweigher measurement data can be displayed in MS-Excel 95/97.

KW2051A allows capsule checkweigher measurement data to be displayed in MS Excel. Data transferred into Excel can be used to create graphs, charts, and daily and monthly reports.

Screening data can also be stored, useful for GMP, validation and other data management purposes.



Statistical Analyses



Pass/Fail data



Pass data



	A A A A A A A A A A A A A A A A A A A	play and map holds with				
	- 1			D		
	\$10.56	tr 21	at PEND	1	5.6	
16						
R						
0						
19						
12						
24						
		1016/10.20 01:01				
15						
	16					

X-R/s data

Weight/Retrievable data

SPECIFICATIONS

Maximum storage capacity	2,500 pieces/min. All lines
Maximum number of storable pieces	According to PC disk space, 30,000 data/1Mbite
Controls	Start/stop, item changeover, limit value setting
System environments	PC98, IBM compatible (Pentium 133MHz or faster), Windows®95/98, Microsoft MS-Excel 95/97
Connection distance	Maximum 1km

OTHER OPTIONS

Hopper-Full Limit Sensor	This outputs the Hopper Full signal from the control signal terminal when the hopper is full.		
NG BOX	This NG BOX replaces the standard NG Chute.		
NO POX Full Limit Sensor	his sensor is attached to the NG BOX and outputs the NG BOX Full signal when the NG BOX becomes full.		
NG BOX Full Limit Sensor	The operation of the main unit can be stopped when a predetermined number of capsules is reached after outputting NG BOX Full signal.		
Warning Light	This Warning Light is used for remote monitoring of the equipment status.		
Internal Henner Check Mirror	This stainless-steel mirror is mounted the top of the hopper and is used to visually check the		
Internal Hopper Check Mirror	remaining capsules in the hopper.		
NG Chute Quitlet Direction Change	The standard NG Chute feeds both +NG and -NG capsules to the left side.		
NG Chute Outlet Direction Change	This option feeds either both +NG and -NG capsules, or only +NG or -NG capsules to the right side.		

*Microsoft Excel and Windows®95/98 are registered trademarks of Microsoft Corporation.

KW9001AP

KW9002AP



(Warning Light optional.)



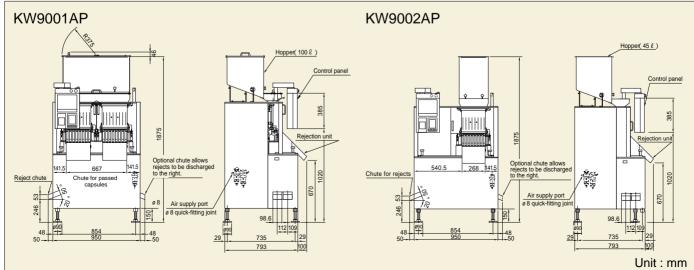
(Warning Light optional.)

SPECIFICATIONS

KW9001AP KW9002AP				
20 to 1,000 mg				
00, 0, 1, 2, 3, 4, 5				
±2 mg				
120,000 pieces/hour under normal conditions 60,000 pieces/hour under normal conditions				
Zero correction is performed automatically at selectable intervals of 1 to 60 min.				
0 to 1,100 mg				
0.5 mg				
Within indicated range				
3 steps				
Rejection gate monitor, weighcell monitor, defective % monitor, capsule flow, printer errors, battery monitor, motor monitor, air pressure monitor.				
15 to 25°C (change in temperatures being 1°C/h or less)				
8 digits each on UNDER, PASS, and OVER				
100 l (120,000 pieces [#3 capsules])	45 ℓ (50,000 pieces [#3 capsules])			
0.3 to 0.9 Mpa, 30 l min[A.N.R]				
100, 115, 120, 200, 220, 230 or 240 Vac ±10 % single phase	e, 50 / 60 Hz (KW9001AP: 600 VA max) (KW9002AP: 550 VA max)			
Approx. 600 kg	Approx. 500 kg			
	20 to 1,000 mg 00, 0, 1, 2, 3, 4, 5 ±2 mg 120,000 pieces/hour under normal conditions Zero correction is performed automatically at select 0 to 1,100 mg 0.5 mg Within indicated range 3 steps Rejection gate monitor, weighcell monitor, defective % monitor, air pressure monitor. 15 to 25°C (change in temperatures being 1°C/h or 8 digits each on UNDER, PASS, and OVER 100 & (120,000 pieces [#3 capsules]) 0.3 to 0.9 Mpa, 30 & min[A.N.R] 100, 115, 120, 200, 220, 230 or 240 Vac ±10 % single phase			

pove accuracy and sorting capacity may hange depending on the caps

EXTERNAL DIMENSIONS



To check tiny cylinder shape product such as aerosol can with high speed and accuracy . .

CHECKWEIGHER KW627A

SPECIFICATIONS

Model	KW627A		
nt range	0.5 to 60 g		
rement accuracy(3o)	±0.05 g		
rting capacity	150 pieces/min		
Items to be measured	aerosol spray containers		
Can diameter	ø15 to 30mm		
Height	40 to 90 mm		
е	100 Vac ±10 %, 1.2 kVA		
	900(W) x Pass line + 600(H) x 710(D) mm		
	120 kg		
	SUS specifications (applies to certain trim items)		
	nt range rement accuracy(3o) rting capacity Items to be measured Can diameter Height		

To check missing items such as tablet, capsule, or leaflet.

CHECKWEIGHERS KW621A/KW632A

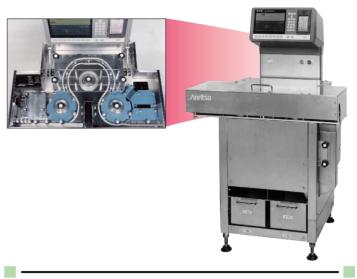


SPECIFICATIONS

Item Model		KW621A	KW632A	
Measuremen	it range	0.5 to 60 g	5 to 600 g	
Maximum measu	rement accuracy(3o)	±0.02 g	±0.05 g	
Maximum so	rting capacity	150 pieces/min	250 pieces/min	
	Width	20 to 120 mm	20 to 120 mm	
Measurements	Length	30 to 200 mm	30 to 205 mm	
	Height	0.5 to 90 mm	0.5 to 90 mm	
Power source		100 Vac±10%,150 VA	100 Vac±10%, 200 VA	
Dimensions		550(W) x Pass line + 600(H) x 580(D) mm		
Weight		70 kg		
Trim		SUS specifications Coating (applies to certain trim items)		

ANRITSU INDUSTRIAL SOLUTIONS CO., LTD.

INTERNATIONAL SALES DEPARTMENT 5-1-1 Onna, Atsugi-shi, Kanagawa-Prf., 243-0032, JAPAN PHONE +81 46 296 6699 FAX +81 46 225 8387 E-Mail: KPOST@anritsu.co.jp http://www.anritsu-industry.com/E



To check missing items such as sachets, strips. **FC-SERIES CHECKWEIGHER KW5341AP**



SPECIFICATIONS

Item Model		KW5341AP		
Measurement range		10 to 1200 g		
Maximum measurement accuracy(3o)		±0.3 g		
Maximum sorting capacity		120 pieces/min		
Measurements	Width	20 to 220 mm		
	Length	35 to 300 mm		
	Height	5 to 160mm		
Power source		100 Vac ±10%, 250 VA		
Outer dimensions		1405(W) x Pass lin + 500(H) x 677(D) mm		
Weight		130 kg		
Trim		SUS specifications (applies to certain trim items)		

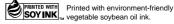
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ISO14001 CERTIFICATE No.JQA-EM0210 ISO 9001 CERTIFICATE No.JQA-0566 ©ANRITSU INDUSTRIAL SOLUTIONS CO., LTD. 2005

• In addition to daily inspection, an annual maintenance check should be carried out.

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