/Anritsu

SSV series
Checkweigher

EC Type Approved

MID
Measuring Instruments Directive

SSV series

Much more than just weighing;
The SSV series provides valuable
process control information.

Core function
Increased accuracy and stability by significantly enhanced weigh cell features

➕ **Additional benefit**
Improved operation through navigation system

Weighing and Rejecting

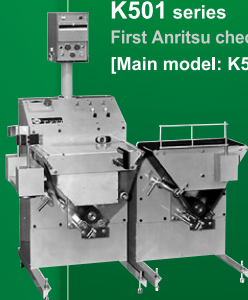**Operation Support**

SSV series

Since 1964, Anritsu Checkweighers have continuously evolved.

1964
K501 series
First Anritsu checkweigher
[Main model: K501]

1980
8 (Eight) series
Was very successful thanks to its superior cost/performance ratio
[Main model: K528]

1990
Hi series
Used high-speed and high accuracy electromagnetic force balance for the first time.
[Main model: K621B]

2000
SV series
With over 800 different models, SV series becomes a long-selling product for over 10 years.
[Main model: KW6003BP03]

2012
SSV series
[Main model: KWS6003BP03]

Easy to follow

Operation guidance

Enhanced intuitive navigation functions including Smart Guide make daily usage and maintenance simple.

Enhanced accuracy and stability

New force balance

Minimum scale value is 0.001g.
Maximum accuracy is ±0.01g.
Resolution quadrupled*.
Temperature resistance improved.

∗ in-house comparison

Easy to use

Color LCD touch screen interface

8.5" color LCD touch screen interface significantly improves daily use.
System has 6 selectable display modes.

Useful features

USB interface
Ethernet interface

Equipped as standard

MID
Class XII

World's top standard

Weighing and Rejecting

World's first checkweigher to achieve class XII

Measuring Instruments Directive (MID) defines several different classes according to the accuracy of measurement instruments. Anritsu KWS60 series checkweigher is the world's first checkweigher to obtain Class XII, the highest standard ever achieved, with its superior weighing properties. Anritsu's new force balance load cell scale has achieved the verification scale interval of e=0.05 g (3 to 100g capacity).
(as of May 2013, according to our own research)

For e-marked prepackaged products

MID
◎Type approval
◎Verification and sealing

OIML R51	WELMEC 7.2
Metrological requirements	Guideline for prevention of data and software corruption

High temperature stability and noise resistance

Scales' zero point fluctuates due to ambient temperature. For stable and accurate weighing, a checkweigher needs to have high resistance to temperature changes. Equipped with a unique-shaped monoblock and a printed-circuit board that can reduce heat generation, Anritsu's new force balance features improved temperature resistance and excellent zero-point stability. Moreover, it is designed to have high immunity to electromagnetic noise from nearby inverters and motors, resulting in improved weighing accuracy and optimum performance, even under difficult factory conditions.
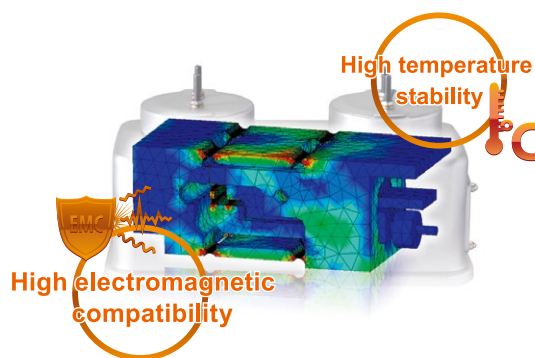
High temperature stability

High electromagnetic compatibility

Multi range function

The SSV series multi-range function allows users to select the weighing range and scale interval to match the weight of the product to increase the accuracy.

| Model	Ref. Value+Upper Limit (TO2)+Tare weight m g	Weight range g	Scale interval g
KWS62 Series	0<m≤100	5 to 100	0.1
	0<m≤300	5 to 300	0.2
	0<m≤600	5 to 600	0.5

Adding product after sealing

A new product is allowed to be registered even after sealing, meeting various production needs.
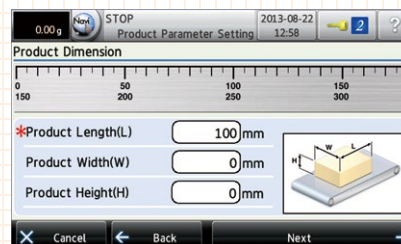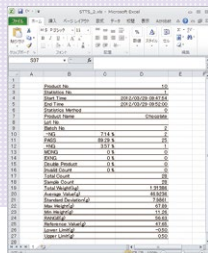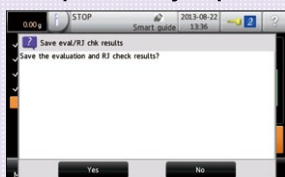
Point **Smart Guide makes operation easy and avoids operator errors.**

● **Easy-to-follow instructions make each operation simple**
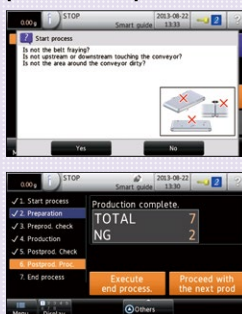
● **Outputs e-Daily Report**

Output in CSV format.

Navigation and Supervision

For checkweighers to function properly, operation checking must be performed correctly at each stage of the daily operation: at start-up, during production, and at the end of production. These procedures, although necessary, are not always strictly followed due to the time and effort involved.

Smart Guide navigates operation check and maintenance procedures in an easy-to-understand format. Moreover, when a procedure was performed incorrectly, Smart Guide will not allow to proceed further, ensuring correct operation management.

E-Daily Report

All checkweigher weight data and operation check (audit) records are saved local on the SSV checkweigher. At the end of production, the data and operation check log can be sent via **E-Reports.** The elimination of manual data collection minimizes possible errors and makes data and log management simple and efficient.

Point

Product Registration Navigation simplifies parameter setting procedures with step-by-step illustrated instructions.

● **Product parameter setting**
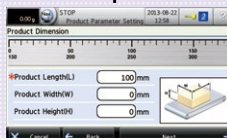
● **Fine adjustment**
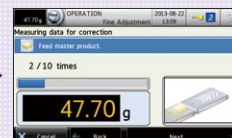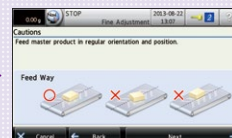
On-screen illustrations help you understand each key procedure and are listed in a "step-by-step" methodology. If performed improperly, the navigation stops for corrective action.

Operation Guidance

Operation Support

Easy to follow

Operator-oriented, easily navigated menu structure

SSV series checkweigher
responds to issues arising from different positions.

I use a checkweigher everyday.
Ease of use is critical.

I don't want to read thick manuals, nor do I want to keep them in the facility.

A **All SSV series checkweighers come with a color LCD touch screen.**

The SSV's standard 8.5 inch color LCD touch screen greatly enhances usability and system navigation. 6 standard view screens are available to quickly see product weight or trending information.

Operators

A **SSV's navigation makes operation easy.**

With SSV's intuitive navigation, product creation and changes are quick and easy. Manuals are not required and simplicity minimizes user errors.
The navigation system also greatly aids for data collection and HACCP compliance.

It's a bother to fill in daily reports everyday !

A **You can create e-Report with Smart Guide.**

The SSV checkweighers save the entire operation history onto themselves. At the end of the production, those can be output in a CSV file.
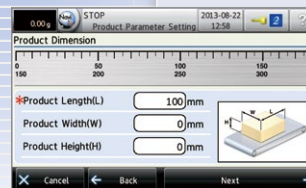
Learning new equipment can take a lot of time.

A **Smart Guide minimizes training effort.**

Smart Guide navigation guides the user through basic system operation. Even inexperienced operators can quickly learn the system by following the on-screen instructions.

A **IP66 rated waterproof models are suitable.**

SSV series has a wide lineup with different modules. Waterproof models are suitable for wet environment. The open frame structure allows for easy cleaning.

Can we use a checkweigher in wet environment?

I want a machine for high-mix low-volume production.

I want to use a checkweigher in our overseas factory.

Corporate manager

A **The SSV series checkweigher supports 200 different products.**

Operating parameters for up to 200 different products can be stored in the memory of SSV series checkweighers. The product registration is easy to perform thanks to Product Registration Navigation.

A **The SSV's control is multilingual.**

11 different languages are selectable on-screen for interface including English, Spanish, French, German, etc.

Even if my company consolidates its factories, I want operators to handle both new and old machines.

A **Operators should have no trouble with SSV.**

Although the SSV series features a lot of new functions, its basic settings are the same as those of previous models. It's easy to handle for operators who are familiar with the Anritsu's previous models.

How can we improve our quality control program ?

Quality control manager / Site supervisor

A **We recommend Smart Guide and QUICCA.**

Smart Guide prevents operator errors by stopping procedures until the instructions are followed correctly. USB port and Ethernet are equipped as standard. With QUICCA installed, you can optimize your quality control by using ID barcode scanning and video camera monitoring.

Refer to QUICCA brochure for detailed features.

What if unexpected events occur ?

A **Depend on Anritsu's global maintenance network.**

We offer comprehensive and responsive service network in over 50 countries, ensuring that service, maintenance and repairs are carried out quickly and efficiently.

Q&A

What is the difference in specifications between SV and SSV ?

SSV KWS6205BP05

Display: 8.5-inch color LCD touch screen
Weighing range: 5 to 600 g
Scale interval*: ≥0.1 g

SV KW6205BP05

Display: FDM panel display
Weighing range: 15 to 600 g
Scale interval*: 0.2 g

*Multi-range weighing

A Above is the specification comparison of comparable models. Aside from display, minimum value of weighing range, and scale interval are improved by the new scale features.

Lineup

High Accuracy

SSV-h series

Equipped with a high speed/high accuracy force balance load cell. Meets stringent accuracy and reliability standards in industrial and pharmaceutical products.

Control panel exterior	☑ Stainless steel	☑ Painted
Conveyor	☐ Waterproof	☑ Non waterproof
Balance	☑ Force balance	☐ Strain gauge
Frame	☑ Stainless steel	☑ Painted

Waterproof

SSV-i series

Features waterproof and dustproof cabinet and components. Its hygienic design is perfect for unpackaged and fresh foods which require stringent sanitary control.

Control panel exterior	☑ Stainless steel	☐ Painted
Conveyor	☑ Waterproof	☐ Non waterproof
Balance	☑ Force balance	☑ Strain gauge
Frame	☑ Stainless steel	☐ Painted

Versatile
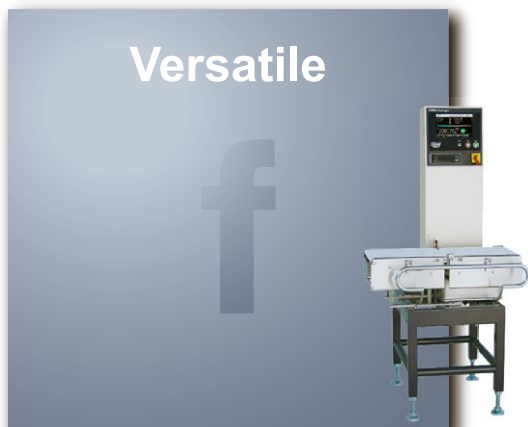
SSV-f Series

Equipped with a highly versatile strain gauge load cell. Well suited for a variety of applications including heavy products.

Control panel exterior	☑ Stainless steel	☑ Painted
Conveyor	☐ Waterproof	☑ Non waterproof
Balance	☐ Force balance	☑ Strain gauge
Frame	☑ Stainless steel	☑ Painted

Refer to separate catalogs for specifications.

Unit construction Select the best combination

Control panel exterior	Conveyor	Balance	Frame	Display
Stainless steel High protection **Painted** Low cost	**Waterproof**	**Force balance** High speed and high accuracy	**Stainless steel** High protection **Painted** Low cost	**Color LCD touch screen**
	Non waterproof	**Strain gauge** Low cost		27.56 g
		(Non waterproof) (Waterproof)		

■ Option

Contact our sales representatives for details.

Tower light (with buzzer alarm)
Supports remote monitoring.

Data printer
Prints inspection results.

Emergency stop switch
Stops equipment in emergencies.

### Line height change
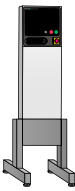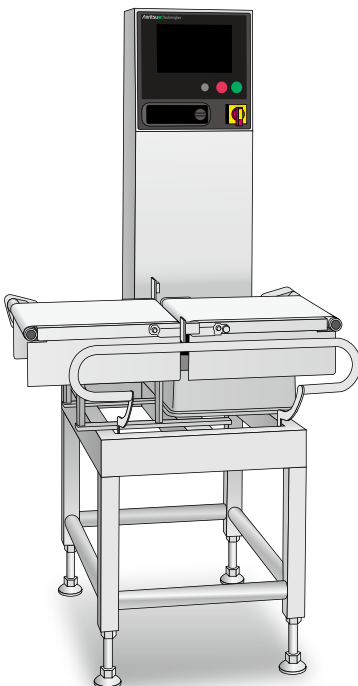Line height is adjustable by changing screw legs.

Plate for anchor
Secures units firmly in position.

Remote indicator
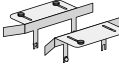Can be placed in more convenient location.
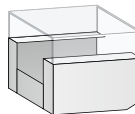
Cross plate
Provides smooth product transitions and prevents product accumulation.

Product guide
Provides accurate product positioning on conveyors.

Wind shield (full cover)
Deflects air current from side, above and below.

Wind shield (top)
Deflects air current from above.

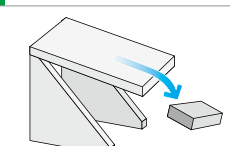### Wind shield (protector)
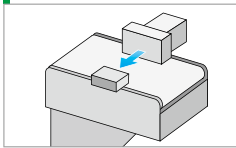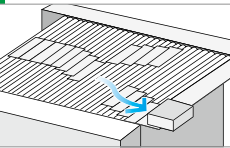Deflects air current from side.
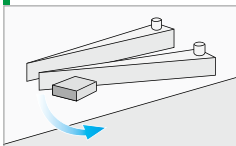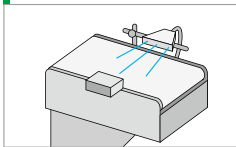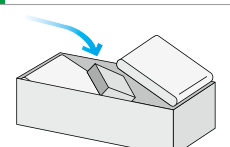
Mobile monitor
Allows real-time viewing of measurement and evaluation data from remote location. (software only)

CE & FCC marking

■ Rejector

Flipper
Highly versatile
- Cartons
- Thick bags

Dropout
For thin products
- Thin bags
- Sheets

Air jet
High speed
- Light individual-packaged products

Up and Out
For thin products
- Thin bags
- Sheets

Pusher
Gentle handling
- Cartons

Carrier
For open-topped containers
- Cans
- Jars

with Metal Detector

SSV series

duw   duwin

Simplified Support

A single source technology, support and service provider ensures equipment consistency and reliability for the life of the system.

Compact and Reliable Inspection

Reduced space requirement

Minimum system length of 775 mm

Possessing an extremely small foot print, line space requirements are minimized and line integration is simplified.

KD8102BW + KWS6203BP03

KWS6203BP2E

Space saved

800 mm   545 mm   775 mm
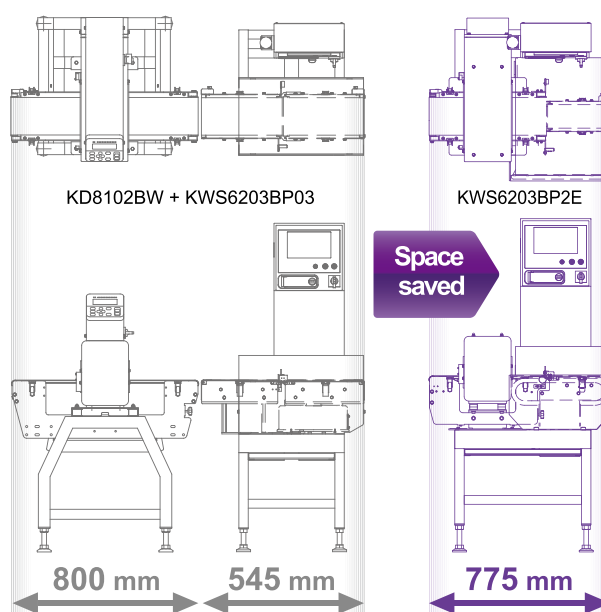
Simplified Operation

**User-friendly single touch screen**

Both metal detector and checkweigher are controlled by the standard touch screen control panel.

Anritsu's exclusive "dual-wave" technology

Proper frequency is chosen for ferrous, non-ferrous and stainless steel metals.

Since metals respond differently to different magnetic field frequencies, it is difficult for conventional single frequency systems to detect both ferrous and non-ferrous metals. Anritsu has patented a dual-frequency inspection system, which automatically determines the best frequencies to maximize sensitivity for both ferrous and non-ferrous metals simultaneously.

↑ Sensitivity

High

High

Frequency for Fe detection

Frequency for SUS detection
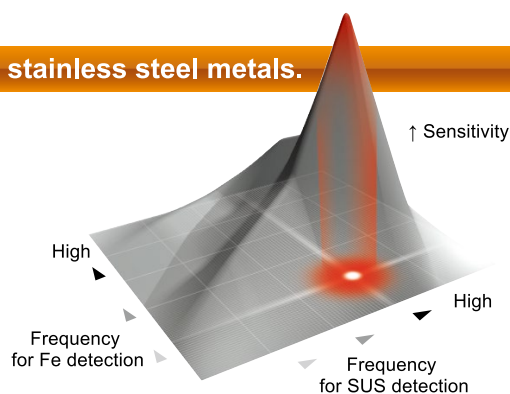
## Two Different Detection Heads

High sensitivity and functionality duw-h and standard duw.

Standard
duw

Simultaneous dual frequency metal detection
— optimized for both stainless steel and ferrous metals at the same time.

High Sensitivity
duw-h

Enhancement to standard duw includes improved signal processing and head design for optimal sensitivity and system stability.
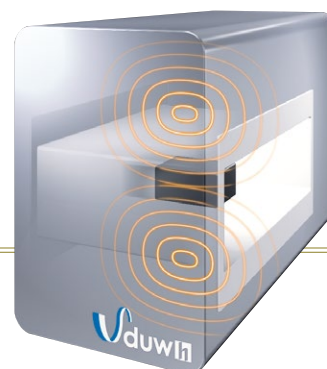
■Features of duw-h series

High sensitivity and high stability

The search head's design features a high resistance to mechanical vibration and electrical noise, creating an optimized magnetic field. With detection software tuned for the improved head, the duw-h series supports three times better signal to noise ratio and an increase in contaminant detection by two ranks (in-house comparison).

Enhanced automatic settings

● HIS (High Sensitivity) setting
Automatically analyzes product and contaminant properties during the auto-learn process. Detection limits are set precisely and reliably for optimal contaminant detection.

● Auto- limit function
Automatically set the best evaluation limit.

● Auto-tracking function
Prevents false rejects by compensating for product/temperature changes.

HIS setting principle

Detection level

OK NG

Limit

Limit

OK NG

Limit can be lowered
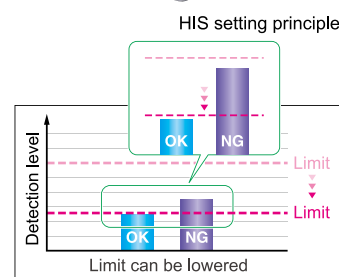
■A wide size range for various applications

◆Pass height of detection head (typical examples)

H: 50

H: 80

H: 130
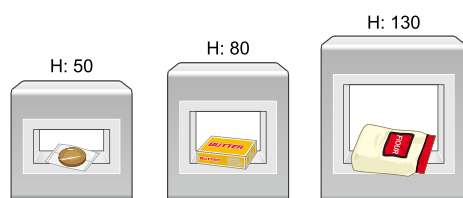
◆Belt width (typical examples)

W: 100

W: 160

W: 250

W: 350

*The illustrations are examples of available applications only.

11

ANRITSU

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ISO 9001 CERTIFICATE No.JQA-0566
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CE

・In addition to daily inspection, an annual maintenance check
  should be carried out.
・To ensure proper operation, read the Operation Manual
  before using the machine.

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