Waterproof Checkweighing Scales

SJ-WP
SJ-WP-BT

Series

ISO 9000 CERTIFIED

Weighing at the
Speed of Lights!

A&D Company, Ltd.

Discover Precision

www.aandd.jp

Reduce Overfilled Packs and Increase Packing Speed

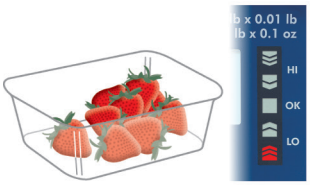
Fresh produce relies heavily on manual packing processes, often utilizing casual labor to pack into punnets/boxes/bags ready for supermarket consumers. On top of the labor cost, the cost of extra produce given away in overfilled packs can add up to thousands of dollars per week if unchecked.

The SJ-WP/SJ-WP-BT series offers a simple solution, utilizing programmable high speed traffic (or comparator*1) lights rather than focusing on a numeric weight display.

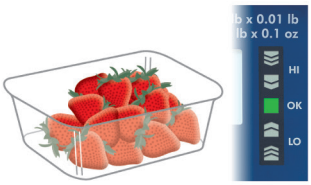
*1 Function to indicate whether the measured weight is within the designated limits

Bright and multi-colored 5-step LED comparator lights

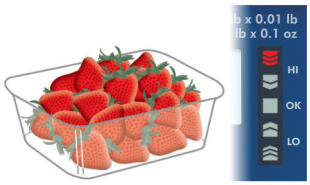
People respond to these signals faster than just looking at numbers. Green means 'Go', red means 'Stop' (and yellow means 'Warning' in the case of five-level comparison).



Quantity too small



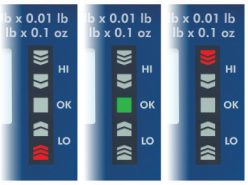
Quantity just right



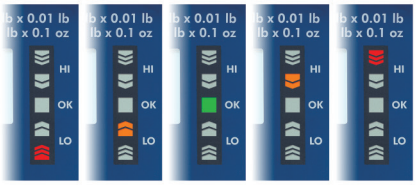
Quantity too large

Comparisons can be made in three*2, five, or even seven levels for grading purposes. The scale can **save up to 10 sets of limit values** for fast and simple changeover to different pack sizes/formats.

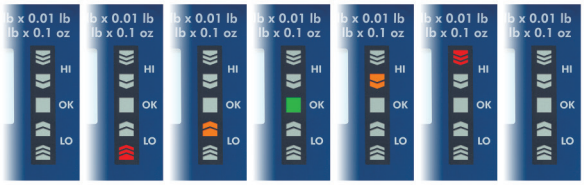
*2 Default setting



3 levels



5 levels



7 levels

Why is the load cell (weight sensor) mounted outside rather than inside the housing?

This innovative design allows the device to be completely sealed from moisture without compromising the weighing speed and stability due to up and down movement of the load cell changing the air pressure inside. As a result, the SJ-WP/SJ-WP-BT series can **stabilize in 0.5 seconds or less***3, which further helps to improve factory productivity and efficiency.

*3 Subject to the weighing environment, display resolution and response characteristic setting

IP67 dust and waterproof*4 construction

In addition to packaging fruits and vegetables, the SJ-WP/SJ-WP-BT series is also ideal for weighing wet objects (e.g. fish) or fine powders that easily scatter (e.g. flour). After use, residues can be rinsed with water quickly to keep the scale always clean and hygienic.

For thorough washing, you can strip down the scale by removing (1) the weighing pan with the stainless steel (SUS304) cover and (2) pan support with transparent overhanging shield panels, and then (3) soak the scale directly in water with pH-neutral detergent.

*4 Permits no infiltration of water while immersed to a depth of 1 meter for 30 minutes

(1)

(2)

(3)

The aluminum load cell of the SJ-WP/SJ-WP-BT series is treated with alumite and silicon to be anti-corrosive and withstand long-term use in wet environments.

Other useful features

- ✔ Large LCD digits (26 mm character height) with white backlight that provides excellent visibility in dim light
- ✔ 5000-hour*5 continuous operation with six D alkaline batteries (LED and backlight OFF)
- ✔ Auto power OFF function to avoid wasting power when the scale is inactive for a set period (5 to 60 minutes) of time
- ✔ Four selectable weighing resolutions: 1/3,000, 1/6,000 (or 1/7,500), 1/12,000 (or 15,000), and 1/30,000
- ✔ Multiple weighing units: gram, kilogram, pound, ounce, troy ounce, pound-ounce, tael (Singapore/HK jewelry/Taiwan), tola, and Newton
- ✔ Counting mode to count a number of small pieces of the same weight instantly and precisely
- ✔ Response characteristics adjustable depending on the degree of vibration and draft at the location
- ✔ Take-away check weighing possible using auto-tare and negative comparison functions

*5 For the SJ-WP series (2500-hour for the SJ-WP-BT series)

Take-away check weighing

Tare the initial weight (either manual or automatic).

Take out the content for the target weight.

The scale performs tare automatically and returns the display to zero.

Realizing Data Communication While Maintaining the IP67 Dust & Waterproofing

The SJ-WP-BT series, with Bluetooth® compatibility, can either communicate with a PC via the AD-8541-PC wireless communication interface for PC or send weighing data to the AD-8931 wireless remote display (both sold separately),*6 requiring no cable connection and thus not compromising its protection against dust or water.

*6 The maximum communication range is 10 m when there is no obstacle such as a wall. The SJ-WP-BT series can be paired with only one of these devices.

1. SJ-WP-BT series + AD-8541-PC

SJ-WP-BT series **AD-8541-PC**

The AD-8541-PC enables a PC (with communication software such as WinCT installed) to wirelessly receive data from and send commands to the SJ-WP-BT series through its USB port.*7 The commands available with the SJ-WP-BT series include read/set comparator limit values as well as request data, zero, tare, clear tare, and switch the weighing unit so that you can avoid troublesome key operation with the scale when confirming and/or changing the comparator limit values.

*7 The driver software for the AD-8541-PC is automatically installed with Windows 8.1 or later. If the driver cannot be installed, download it from the [Support] - [Software] section of the A&D website (www.aandd.jp), where WinCT is also downloadable for free.

2. SJ-WP-BT series + AD-8931

SJ-WP-BT series **AD-8931**

The AD-8931 can wirelessly receive and display weighing results from the SJ-WP-BT series. It has props to stand on its own and holes so that it can be mounted on a wall to suit your needs.

Note) Please inquire as to whether the above Bluetooth® devices are certified for use in your country.

Specifications

AD-8541-PC	
Supported operating system	Windows XP/Vista/7/8.1/10, 32/64 bit
Operating environment	–10 to 40 ˚C / 14 to 104 ˚F, 85% R.H. or less (no condensation)
Power supply	From USB port
Communication range	Max. 10 m (line of sight)
Wireless communication module	EYSHCNZXZ (TAIYO YUDEN CO., LTD.) Bluetooth 4.2 (Bluetooth Low Energy)
Serial communication parameters	Baud rate: 2400 bps Bit length / parity: 7 bit / even Stop bit: 1 bit
External dimensions	Approx. 24 (W) × 12 (H) × 74 (D) mm
Net weight	Approx. 15 g

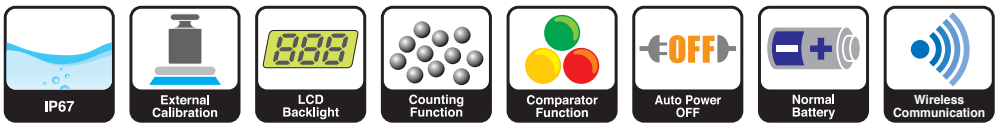
AD-8931	
Display	7 segment LCD with backlight (character height: 26 mm)
Display refresh rate	Approx. 10 times / second*i
Displayable units of measure*ii	g (gram), kg (kilogram), lb (pound), oz (ounce), ozt (troy ounce), tl (tael), t (tola), pcs (counting mode), N (Newton)
Operating environment	–10 to 40 ˚C / 14 to 104 ˚F, 85% R.H. or less (no condensation)
Power supply	Four AAA batteries (R03 / LR03) or USB (5 V / 50 mA)
Battery life*iii	Approx. 200 hours (with backlight OFF) Approx. 100 hours (with backlight always ON)
Communication range	Max. 10 m (line of sight)
Wireless communication module	EYSHCNZXZ (TAIYO YUDEN CO., LTD.) Bluetooth 4.2 (Bluetooth Low Energy)
External dimensions	160 (W) × 74 (D) × 25 (H) mm
Net weight	Approx. 160 g (excluding batteries)

*i When the scale transmits weighing data at 10 times / second
*ii For other units of measure, ► is displayed.
*iii Four AAA alkaline batteries at 25 ˚C

Specifications

		SJ-3000WP SJ-3000WP-BT	SJ-6000WP SJ-6000WP-BT	SJ-15KWP SJ-15KWP-BT	SJ-30KWP SJ-30KWP-BT
kg	Capacity	3	6	15	30
	Readability	0.0001 0.0002 0.0005*i 0.001	0.0002 0.0005 0.001*i 0.002	0.0005 0.001 0.002*i 0.005	0.001 0.002 0.005*i 0.01
lb	Capacity	6.6	13	33	66
	Readability	0.0002 0.0005 0.001*i 0.002	0.0005 0.001 0.002*i 0.005	0.001 0.002 0.005*i 0.01	0.002 0.005 0.01*i 0.02
oz	Capacity	105	210	520	1050
	Readability	0.005 0.01 0.02*i 0.05	0.01 0.02 0.05*i 0.1	0.02 0.05 0.1*i 0.2	0.05 0.1 0.2*i 0.5
lb-oz	Capacity	6	13	33	66
	Readability	0.1			
Counting	Number of samples	5, 10, 20, 50 or 100			
	Maximum count	120,000			
Repeatability (standard deviation)		0.5 g	1 g	2 g	5 g
Linearity		±1 g	±2 g	±5 g	±10 g
Sensitivity drift		±50 ppm / ˚C (5 to 35 ˚C / 41 to 95 ˚F)			
Display	Weight display	7 segment LCD (character height: 26 mm) with white LED backlight			
	Comparator lights	Tricolor 5-step LED: red / yellow / green / yellow / red			
Display refresh rate		20 times / second			
Units of measure		g (gram), kg (kilogram), lb (pound), oz (ounce), ozt (troy ounce), lb-oz (pound-ounce), tl (tael), t (tola), pcs (counting mode), N (Newton)			
Operating temperature		–10 to 40 ˚C / 14 to 104 ˚F			
Battery*ii life (with LED and backlight OFF)		SJ-WP: Approx. 5,000 hours SJ-WP-BT: Approx. 2,500 hours			
Weighing pan size		232 (W) × 192 (D) mm / 9.18 (W) × 7.6 (D) in			
External dimensions		236 (W) × 260 (D) × 148 (H) mm / 9.3 (W) × 10.2 (D) × 5.8 (H) in			
Net weight		Approx. 4 kg / 9 lb			
Standard accessories		Instruction manual, screwdriver, cleaning sheet			

*i Factory setting *ii Six D alkaline batteries at 20 ˚C



SJ-WP-BT

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