SJ-WP/SJ-WP-BT Series IP67 Compact Bench Scale

INSTRUCTION MANUAL

SJ-3000WP/SJ-3000WP-BT

SJ-6000WP/SJ-6000WP-BT

SJ-15KWP/SJ-15KWP-BT

SJ-30KWP/SJ-30KWP-BT





CONTENTS

1.	S	afety Precautions	4
2.	Р	arts Description	5
	3.1.	reparationInstalling/Exchanging BatteriesSetting Up the Scale	6
	4.1. 4.2.	isplay and Symbols Display Symbols Operations and Functions of Switches	7 7
	5.1. 5.2.	peration Basic Weighing Operation Notes About Operations Weight Display Resolution	9 9
	6.1.	electing a Weighing Unit Storing the Weighing Unit Selecting the Weighing Unit	11
7.	С	ounting Mode	12
	8.1.	omparator The Formula to Compare Entering the Comparator Values	14
9.	Α	uto-Tare	18
10	10.1 10.2 10.3	/ireless Communication Function (SJ-WP-BT model only)	19 20 21
11	11.1 11.2 11.3	ensitivity Adjustment	28 30 31
12	12.1 12.2	unction Settings	33 34
13	13.1 13.2	laintenance	38 38
14	I. S	pecifications	40
15	5 G	ravity Acceleration	43

1. Safety Precautions

All safety messages are identified by the following, "WARNING" or "CAUTION", of ANSI Z535.4 (American National Standard Institute: Product Safety Signs and Labels). The meanings are as follows:

 MARNING	A potentially hazardous situation which, if not avoided, could result in death or serious injury.
 ∴ CAUTION	A potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

- This manual is subject to change without notice at any time to improve the product.
- Product specifications are subject to change without any obligation on the part of the manufacturer.
- When using the SJ-WP/-BT series, the following safety precautions should always be followed.

! WARNING

Internal service or adjustment to this product should be performed by a qualified person.

ACAUTION

Avoid installing the scale in direct sunlight, which may cause discoloration or malfunctions.

Do not mix battery types, or new and old batteries. Replace with all new batteries at the same time.

If the scale is not to be used for a long period of time, remove all batteries from the battery compartment to avoid leakage.

Avoid overloading the scale.

Avoid using the weighing platform to move the scale, as that could cause damage to the scale.

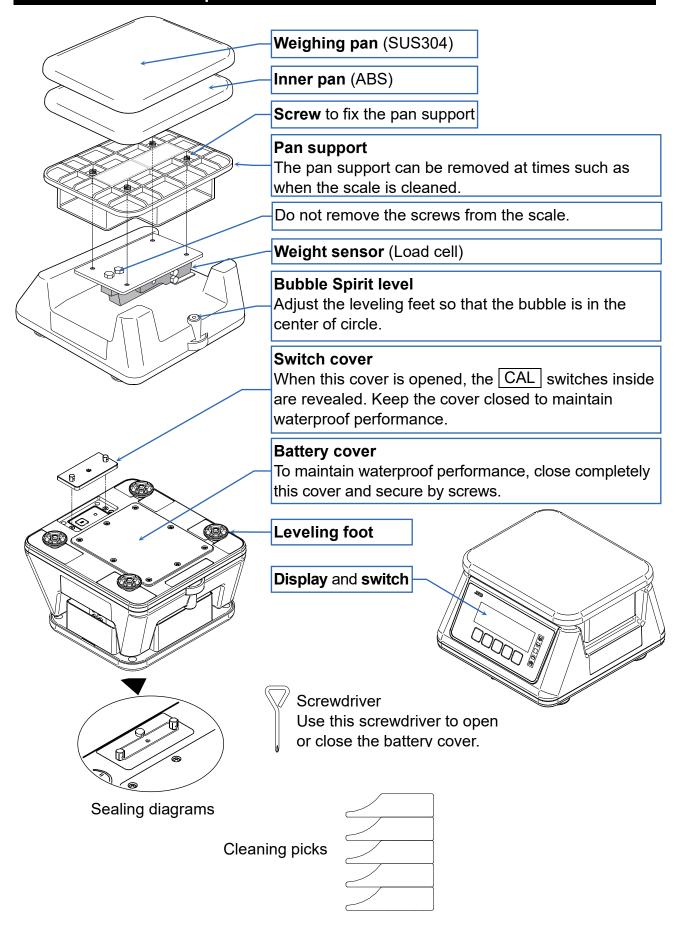
Avoid chemical solvents. Clean the scale with water.

Degrees of protection against water: Protected against temporary submergence.

Degrees of protection against solid foreign objects: Dust-tight.

International Protection of IEC60529.

2. Parts Description

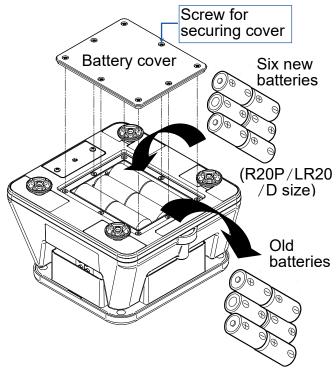


3. Preparation

3.1. Installing/Exchanging Batteries

The batteries are not included with the product. Prepare 6 x "D" size (R20P or LR20) dry-cell batteries. When the <u>lb</u> mark is displayed, exchange the old batteries with new ones.

- Loosen the screws for securing the battery cover using the provided screwdriver, and remove the battery cover.
- 2. Remove all the old batteries from the battery compartment.
- Install six new batteries properly according to the + and - indicators of polarity in the battery compartment.
- 4. Close the battery cover, and tighten the screws for securing the battery cover.



! CAUTION

- ☐ Do not mix used and new batteries. Do not mix the different types of batteries. That may cause damage to the batteries or the scale.
- ☐ Take care of the polarity of batteries. The polarity marks are shown in the battery compartment.

3.2. Setting Up the Scale

∴ CAUTION

- □ Avoid installing the scale in direct sunlight, that may cause discoloration or malfunctions. Place your SJ-WP/-BT on a firm weighing table so that the scale is level. The scale will not perform accurately when it is not level.
- ☐ Place the scale on a firm surface and adjust the feet so that the bubble of the sprit level is in the center of the circle.





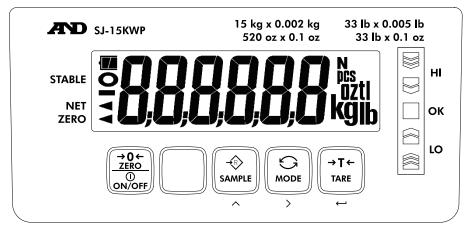
OK

NG

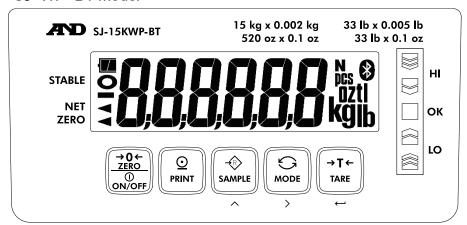
4. Display and Symbols

4.1. Display

SJ-WP Model



SJ-WP-BT Model



4.2. Symbols

Symbol	Description				
STABLE O	Turns on when the weight value is stable.				
NET ◀	Turns on when the NET weight is displayed. (The tare operation is in progress.)				
ZERO ◀	Turns on when zero is displayed.				
DDD \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Turns on when the comparator results are displayed.				
Weighing units	"lb", "oz", "ozt" , "lb-oz" , "tl-s" , "tl-h" , "tl-t" , "t" , "pcs" , "N" , "g" and "kg" are available. A selected unit is displayed.				
Battery indicator	The battery indicator changes as the battery capacity decreases, as shown below: New Replace the batteries.				
Wireless communication	Turns on when the connection with the wireless communication receiver is established.				

4.3. Operations and Functions of Switches

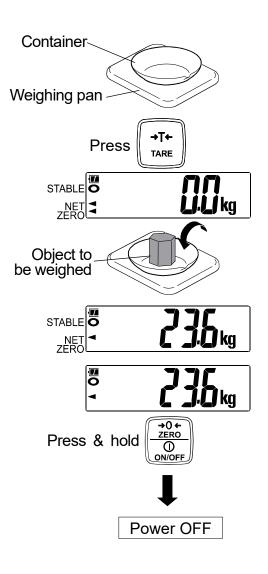
Switch	Description
→0← ZERO ① ON/OFF	When the scale is turned off : Press the switch to turn ON the scale. The scale will be automatically set to zero (power-on zero). When the scale is turned on : Press and hold the switch to turn OFF the scale. Press the switch to ZERO the scale and display zero.
SAMPLE	During measurement: In the function setting mode to set the parameters: Press the switch to change the parameter of the selected item.
MODE	During measurement: Press the switch to choose a unit specified in the setting mode. In the function setting mode to set the parameters: Press the switch to select the function item.
→ T ← TARE	During measurement: Press the switch to tare the scale and display zero (net weight display). In the function setting mode to set the parameters: Other than at the item "unit": Press the switch to store new parameters and return to the weighing mode. At the item "unit": Press the switch to select active / inactive for the displayed unit.
$ \begin{array}{c} $	When the scale is turned off : Press and hold the ON/OFF switch while pressing and holding the TARE switch to enter the function setting mode. Further to the above, continue to press and hold the TARE switch to restore the function settings to the factory set values.
PRINT	Output the display value data (SJ-WP-BT model only)
	No use (SJ-WP model only)
CAL	When the scale is turned on : By pressing the switch, the scale proceeds to the sensitivity adjustment mode.

5. Operation

5.1. Basic Weighing Operation

- 1. Press the ZERO ON/OFF switch to turn the power ON.

 All the symbols except the comparator LEDs are displayed. When the weight value becomes stable, the display turns off for a moment and displays zero (power-on zero) with the weighing unit used last before turning off.
- Select a weighing unit using the MODE switch.
 □ Refer to "6. Selecting a Weighing Unit" for details.
- 3. When the display doesn't show zero, press the ZERO ON/OFF switch to set the display to zero.
- 4. When using a tare (container), place the container on the weighing pan, and press the TARE switch to set the display to zero.
- 5. Place the object to be weighed on the weighing pan or in the container, and wait for the STABLE indicator to turn on and read the value.
- 6. Remove the object from the weighing pan.
- 7. Press and hold the ZERO Switch to turn the power off.



5.2. Notes About Operations

Power-on zero

- ☐ If the weight is unstable at power ON, the scale displays _____. Check anything touches the weighing pan, or check if there is strong wind or vibration.
- ☐ The range for power-on zero is within ±50% (±10% for Legal for Trade models) of the weighing capacity (kg) at the adjusted zero point. If the scale is powered on with a load beyond this range, the scale displays _____. Remove the load from the weighing pan.

ZERO and TARE

- ☐ The ZERO on/OFF (as ZERO switch) and TARE switches work when the weight value is stable.
- □ The ZERO | switch will zero the scale if the weight value is within ±2% of the weighing capacity (kg) at the power-on zero point. The ZERO ■ indicator turns on. (ZERO operation)
- ☐ The TARE switch will tare the scale and subtract the weight to zero as a tare weight

when the weight is a plus value. In this case the ZERO ◀ and NET ◀ indicators turn on. (TARE operation) At the zero point, the net weight display shows the tare weight in negative, and the ZERO ◀ and NET ◀ indicators turn on. (Note: In some countries or areas, the ZERO ◀ indicator will not turn on while the scale is tared.)
☐ When the scale is tared, weighing range for net loads is reduced by the amount of
the tare weight.
☐ When the ZERO operation is performed in the net weight display, the tare operation
previously done is cleared and the NET ◀ indicator turns off. (Note: In some countries or areas, the ZERO operation will not clear the TARE operation. Press the TARE switch after zeroing the scale with nothing on the weighing pan.)
Auto power-off function
 □ If no switch is pressed and the stable indicator is displayed for a certain period of time, the scale will automatically turn off. See the function setting PoFF to set the elapsed time to turn off. □ When F or F is displayed (refer to "13.3. Error Codes"), the auto power-off function is enabled.
LCD backlight ☐ The LCD backlight is controlled by the functions [[
☐ The function setting [[-,]] adjusts the brightness of the backlight.
5.3. Weight Display Resolution
The weight display resolution is a ratio of the minimum display to the weighing capacity. The SJ-WP/-BT series has four types of weight display resolution, as shown below. Low: 1/3,000 Normal: 1/6,000 or 1/7,500 (depending on the weighing capacity) High: 1/12,000 or 1/15,000 (depending on the weighing capacity) Maximum: 1/30,000
The factory setting is the normal resolution. Select the resolution according to your own application in the function setting <u>rf5a</u> .
☐ For details about the minimum display and the weighing capacity,
refer to "14. Specifications". The weight display resolution of the Legal for Trade models is fixed. The selection in the function setting resolution is not available.
In the counting mode, the scale works with the maximum resolution regardless of the weight display resolution selected in the function setting resolution.

6. Selecting a Weighing Unit

6.1. Storing the Weighing Unit

- 1. Press the ZERO onlog switch while pressing and holding the TARE switch in order to display P-** in the function setting mode.
- 2. Press twice the MODE switch to display Unit.
- 3. Press the SAMPLE switch to display a unit. Press the TARE switch to activate or deactivate the unit. The indicator is displayed for each active unit.
- 4. Repeat step 3 for other units.
- 5. Press the MODE switch to move to the next function item when finishing the selection.
- 6. Press the TARE switch to store new units. The scale returns to the weighing mode.

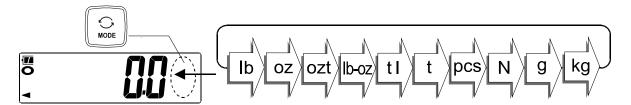
Unit	Symbol	Conversion to gram
Gram	g	1.00000 g
Kilogram	kg	1000.00 g
Pound (UK)	lb	453.59237 g
Ounce (avoir)	OZ	28.349523125 g
Troy ounce	ozt	31.1034768 g
Pound - Ounce	oz l b	
Tael (Hong Kong general, Singapore)	tl °Un it 5 "	37.7994 g
Tael (Hong Kong jewelry)	tl °Unıt Hı	37.4290 g
Tael (Taiwan)	tl °Unit t "	37.5 g
Tola	t	11.6638038 g
Counting unit	pcs	
Newton	N	See below

Newtons is a value calculated as follows:

Newtons = (value in grams) x $(9.80665 \text{ m/s}^2)/1000$

6.2. Selecting the Weighing Unit

In the weighing mode, press the MODE switch to select a weighing unit. Each time the MODE switch is pressed, the unit changes as shown below.



7. Counting Mode

Determines a unit weight (the weight of one piece) from a known sample quantity, and calculates how many pieces are on the weighing pan using the unit weight.

The unit weight is maintained even if the power is turned OFF.

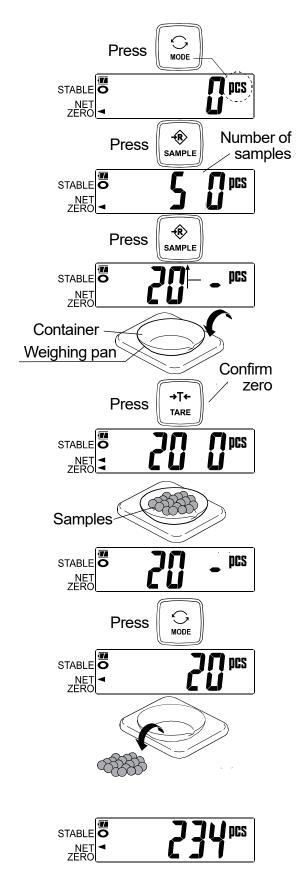
- Press the MODE switch to select "pcs".
 ("pcs" = pieces)
- 2. Press the SAMPLE switch to enter the sample unit weight storing mode. The numerical value on the left indicates the number of samples.
- 3. Pressing the SAMPLE switch allows you to change the number of samples in the order $5 \rightarrow 10 \rightarrow 20 \rightarrow 50 \rightarrow 100 \rightarrow 550 \rightarrow 50$
 - By pressing the MODE switch when [5] is displayed, the scale exits the sample unit weight storing mode to the count display.
- 4. When "-" appears at the right side of the number of samples, press the ZERO ON/OFF switch to zero the scale. If necessary, place a container on the weighing pan, and press the TARE switch. Confirm that the right side of the number of samples shows zero.
- 5. Place the correct number of samples on the. weighing pan or in the container.
- Confirm that the STABLE indicator is turned on. Press the MODE switch to calculate and store the unit weight. Remove the samples. The scale is set to count objects with this unit weight.
 - ☐ The total weight of samples should be more than shown below, regardless of the number of samples.

SJ-3000WP/-BT: 2.5 g SJ-6000WP/-BT: 5 g SJ-15KWP/-BT: 12.5 g SJ-30KWP/-BT: 25 g

If not, the display shows Lout and returns to the display of step 5. Increase the number of samples (step

3) and try again.

7. Place the objects to be counted on the weighing pan.



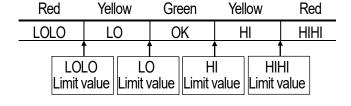
8. Comparator

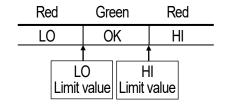
The scale has three-, five- and seven-level comparators.

Each comparator mode compares the weight value against the preset limit values and outputs the results using LEDs (yellow/green/red).

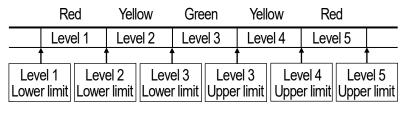
Note: When the unit is "lb-oz" or "tl", this function cannot be used.

- Five-level comparator mode:
 Uses four comparator values to
 compare the weight value and
 outputs results in five levels of
 LOLO, LO, OK, HI and HIHI.
- Three-level comparator mode:
 Uses two comparator values (upper and lower limit values) to compare the weight value and outputs results in three levels of LO, OK and HI.





 Seven-level comparator mode (portion weighing mode):
 Uses six comparator values to compare the weight value and outputs results in seven levels



of outside the lowest limit, level 1 (LOLO), level 2 (LO), Level 3 (OK), level 4 (HI), level 5 (HIHI) and outside the highest limit.

- ☐ To use the comparator modes, the function settings [[P-L]] and [[P]] must be specified and the comparator values must be set.
- ☐ Using the function setting [[P-L]], select a comparator mode.
 - Five-level comparator mode (Result LED blinks)
 - : Five-level comparator mode (Result LED lights)
 - → Three-level comparator mode (Result LED blinks)
 - : Three-level comparator mode (Result LED lights)
 - 닉: Seven-level comparator mode (Result LED blinks)
 - 💃 : Seven-level comparator mode (Result LED lights)
- ☐ Using the function setting [[P]], select comparison conditions.
 - 🗓 : No comparison (comparator disabled).
 - : To compare all data.
 - تا: To compare all stable data.
 - ∃: To compare all data which are ≥ +5d or ≤ -5d.
 - ์ ่ๆ: To compare stable data which are ≥ +5d or ≤ -5d.
 - 5 : To compare all data which are ≥ +5d.
 - $\frac{1}{b}$: To compare stable data which are $\geq +5d$.

d = minimum display in kg (Refer to "14. Specifications").

In the counting mode, "d" is equal to the minimum weight display of kg mode.

8.1. The Formula to Compare

Comparison is performed using the formula listed below and the results are output.

Five-level comparator mode

Results	Comparison formula	LED display
LOLO	Displayed value < LOLO limit,	(Red LED on)
LO	LOLO limit ≤ Displayed value < LO limit	(Yellow LED on)
OK	LO limit ≤ Displayed value ≤ HI limit	(Green LED on)
НІ	HI limit < Displayed value ≤ HIHI limit	(Yellow LED on)
НІНІ	HIHI limit < Displayed value, or <u></u>	(Red LED on)

Three-level comparator mode

Results	Comparison formula	LED display
LO	Displayed value < LO limit, or	(Red LED on)
OK	LO limit ≤ Displayed value ≤ HI limit	(Green LED on)
НІ	HI limit < Displayed value, or	(Red LED on)

Seven-level comparator mode (portion weighing mode)

Results	Comparison formula	LED display
None	Displayed value < Level 1 lower limit, or	(No LEDs on)
LOLO (Level 1)	Level 1 lower limit ≤ Displayed value < Level 2 lower limit	(Red LED on)
LO (Level 2)	Level 2 lower limit ≤ Displayed value < Level 3 lower limit	(Yellow LED on)
OK (Level 3)	Level 3 lower limit ≤ Displayed value ≤ Level 3 upper limit	☐ (Green LED on)
HI (Level 4)	Level 3 upper limit < Displayed value ≤ Level 4 upper limit	(Yellow LED on)
HIHI (Level 4 upper limit < Displayed value ≤ Level 5 upper limit		(Red LED on)
None	Level 5 upper limit < Displayed value, or	(No LEDs on)

			_						_		_
	Tha	comparato	rvoluos	ara c	200000	+~	+h~	waiahina	~ ~ ~	aauntina	mada
ш	me	comparato	rvalues	arec	жинист	1()	me	welanina	and	COUITING	mode
_									٠	000	

Example for SJ-6000WP/-BT when the setting value is "001000":

Display mode	Limit value	Capacity / Minimum display
Normal resolution kg	1.000 kg	6.000 kg / 0.001 kg
High resolution kg	0.1000 kg	6.0000 kg / 0.0005 kg
Maximum resolution g	100.0 g	6000.0 g / 0.2 g
Low resolution oz	100.0 oz	210.0 oz / 0.1 oz
Normal resolution oz	10.00 oz	210.00 oz / 0.05 oz
High resolution oz	10.00 oz	210.00 oz / 0.02 oz
Counting mode	1000 pcs	

[☐] The comparator values are maintained even if the power is turned OFF.

[☐] Ignore the decimal point when setting the comparator values.

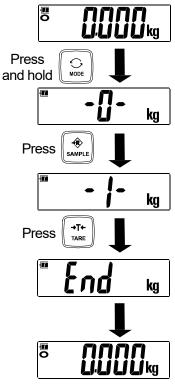
[☐] The scale does not judge magnitude relation among the comparator values. Even if the wrong values are set, no error will be shown.

8.2. Entering the Comparator Values

How to Operate

- 1. Press the ZERO ON/OFF switch to put the device in the weighing mode.
- 2. Press and hold the MODE switch to display the currently selected memory number.
- 3. Each time the SAMPLE switch is pressed, the memory number display will be switched.

The currently selected memory number is indicated by the "O" mark being lit.



Start comparing using the second memory.

Selecting the Memory Number

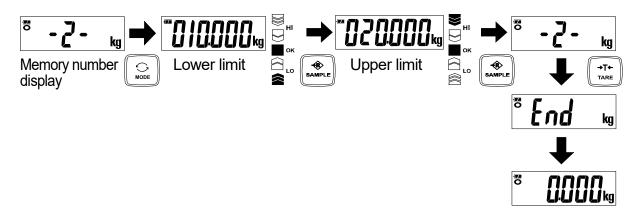
- 4. Press the SAMPLE switch to display the memory number to be changed.
- 5. Press the TARE switch to change the memory number.

 After displaying End, the device returns to weighing mode.
- 6. Start comparing using the memory number changed to.

Confirming the Upper and Lower Limit Value

- 4. Press the SAMPLE switch to display the memory number to be confirmed.
- 5. By pressing the MODE switch, LO is lit and the lower limit value of the memory number selected is displayed.
- 6. By pressing the SAMPLE switch, HI is lit and the upper limit value of the memory number selected is displayed.
- 7. To return to the memory number display, press the SAMPLE switch.
- 8. To return to the weighing mode, press the <u>TARE</u> switch. (Start comparing using the memory number displayed at this time.)

Confirming the second upper and lower limit value



Setting the Upper and Lower Limit Value

- ☐ When the key lock function active, these operations cannot be used.
- 4. Press the SAMPLE key to display the memory number to be set.
- 5. Press the MODE key to display the lower limit value.
- 6. Press the TARE key at the lower limit value display to make LO and a digit of the value blink.
- 7. Set the lower limit value by using the following keys.

MODE :To change which digit is blinking.

SAMPLE: To increase by +1 the value of the blinking digit.

The minus sign can be set at the next digit of the least significant digit.

The | SAMPLE | switch alternates the minus sign on and off.

The blinking " - " shows minus and no sigh shows plus.

- 8. Press the TARE key to store the lower limit value. The scale then displays the upper limit value after displaying End.
- 9. Set the upper limit value by using the following keys.

MODE :To change which digit is blinking.

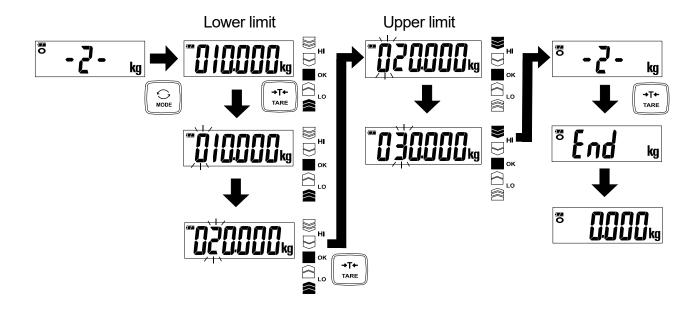
SAMPLE: To increase by +1 the value of the blinking digit.

The minus sign can be set at the next digit of the least significant digit.

The SAMPLE switch alternates the minus sign on and off.

The blinking " – " shows minus and no sigh shows plus.

- 10. Press the TARE key to store the upper limit value. The scale then retunes to the memory number display.
- 11. To return to weighing mode, press the TARE key. (Start comparing using memory number displayed at this time.)



9. Auto-Tare

ena	s SJ-WP/-BT series has an auto-tare function to be used with the comparator mode abled. If the weight values are in the OK range of comparator limits and stable for a set period of time, the scale will automatic 1 ally tare the weight and show zero. In some countries or areas, the auto-tare function cannot be used on the Legal for Trade models and the selection in the function settings Rt Rt-t and Rt-f is not available. To use the auto-tare function, set the function settings below.
	(P) : Compare all weighing data (other settings may be used depending on the application). R上 : Auto-tare function enabled. R上-上 ① to 9: Select the timing to tare automatically to avoid the wrong tare operation, for example; too early to tare, to take a longer time to go to the next weighing.
Noi	Start with display zero after tare operation. Place or take away objects until the comparison result will show OK. When the stable indicator is ON for a the preset period of time specified in the function setting R:-!, the scale will automatically tare the weight, show zero and be ready for next weighing to repeat.
Neç □	Take-away check weighing (negative comparison) is the way to compare the negative weight while taking away objects from a container. Set the function [P-P] together with the auto-tare function enabled RE]. In this operation mode, the scale operates as "take-away the objects" → "OK and stable" → "auto-tare" → "take-away the objects" → In this setting, the polarity of LOLO, LO, HI, and HIHI limit values are ignored and the scale shows the comparator results as below.
Not	te: To start the take-away check weighing, be sure to use the TARE switch to tare the weight of the container filled with objects. The ZERO switch may zero the display, and the scale goes below the zero point by taking out the objects. Then, the auto-tare function does not work.
	When the function "Rt-F! Tares the initial (container) weight" is selected: To start the auto-tare function, usually the container (filled with objects) will be placed on the weighing pan and its weight must be tared using the TARE switch. When the function Rt-F! is selected, the scale will tare the initial (container) weight automatically.
	When all load on the weighing pan is removed, the scale will return to the zero point and the tare weight will be automatically cleared. If the scale does not return to the zero point, press the IEERO switch to clear the tare weight.

Wireless Communication Function (SJ-WP-BT model only)

The SJ-WP-BT model has a wireless communication function. Connectable devices are shown below.

Connectable devices

AD-8541-PC (wireless communication interface for PC) *1

AD-8931 (wireless remote display) *1

Tablets/smartphones *2

This product is not paired with the wireless receiver at the time of shipment. In order to use, it is necessary to perform the procedure in "10.1. Wireless Communication Initial Setting" below. The SJ-WP-BT model can be paired with one wireless communication device.

Note: The wireless communication function is a built-in option already incorporated at the time of factory shipment. Therefore, please note that it cannot be added to a SJ-WP model later.

10.1. Wireless Communication Initial Setting

1. While the power is off,

(For the AD-8541-PC) press and hold the "connection switch" of the AD-8541-PC until the LED lights in orange (about 3 to 4 seconds).

(For the AD-8931) turn on the AD-8931, and press and hold the SET key until the connection mark starts blinking.

- 2. Turn on the power and wait for a while. If there are multiple scales or balances, turn off the power of those other than the one to be connected.
- 3. When pairing is successful, the "Wireless communication mark" lights up on the display. From next time, connection will be established automatically.
- 4. If the connection is not successful, please refer to the instruction manual of the wireless communication receiver.

^{*1:} Separately available

^{*2:} The purpose-built application, the A&D WeiV (iOS/Android), is required.

10.2. SJ-WP-BT Wireless Communication Specification

Transmission format Start-stop synchronous communication (asynchronous), Bidirectional,

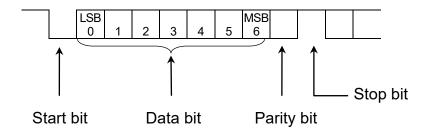
Half duplex transmission

Signal format

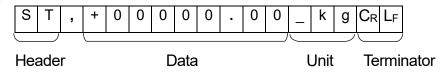
Baud rate 2400bps
Data bit 7 bit
Parity EVEN
Start bit 1 bit
Stop bit 1 bit

Usage code ASCII

Terminator C_RL_F (C_R: 0Dh, L_F: 0Ah)



Data format



☐ There are three kinds of headers for the weighing value as follows.

ST: Weighing data is stable.

US : Weighing data is not satable.

OL : Data is over.(beyond the measurement range)

- ☐ Data is always digits including sigh, decimal point.
- ☐ There are three types of units as follows:

_ k g: Unit amount of weighing data "kg"

__g: Unit amount of weighing data "g"

P C: Unit amount of number "PCS"

- $\hfill \square$ $\hfill C_RL_F$ is always output for the terminator.
- Example of output data

Weighing data "kg" (+)

Weighing data "g" (-)

Overweight "kg" (+)

S	Т	,	+	0	0	1	2		3	4	5	_	k	g	C_R	L _F
S	Т	,	-	0	0	0	0	1	2	3	4	_		g	C_R	L _F
С	L	,	+	9	9	9	9		9	9	9	_	k	g	C_R	L _F

10.3. Data Output Mode (Prt)

(Refer to "12. Function Settings")

Stream mode (Pr L - [])

Data is output continuously. Data output is about 10 times per second.

Command mode ($P_r + Q \sim h$)

The scale is controlled by a command sent from a personal computer etc, connected externally. For details, refer to "10-4. Command mode".

In Prt-1, data is output only by command.

Output by PRINT switch (Pr \(\cdot - \cdot)\)

When the weighing value is stable (stable mark is lit), pressing the PRINT switch will output the data. The display will disappear for a moment to inform you that data has been output.

Auto print +/- data ($P_r + - 3$)

Data is output when the weighing value is stabilized (stability mark is lit) and its value is +5d or greater, or -5d or smaller. The next output will be after the weighing value has returned to the range of -4d to +4d.

Auto print + data output (Pr L - 4)

When the value is stabilized (stability mark is lit) and its value is + 5d (d = scale) or greater, data will be output. The next output will be after the weghing value returns to +4d or less.

Auto print +/- data and comparison result OK (Prt-5)

Data is output when the weighing value is stabilized (stability mark is lit), its value is +5d or greater or -5d or smaller and the comparison result is OK.

The next output will be after the weighing value has returned to the range of -4d to +4d.

Auto print + data and comparison result OK (ዖ፫ է - ይ)

Data is output when the weighing value is stabilized (stability mark is lit), its value is +5d (d = weight minimum display) or greater and the comparison result is OK. The next output will be after the weighing value returns to +4d or smaller.

10.4. Command Mode

In the command mode, the scale is controlled by commands that come from an external device such as a computer.

Command List

Command	Description	Remarks
Q	Requests data be output immediately.	
Z	Zeros the scale when the weighing value is stable.	Same as the ZERO key.
Т	Tares the scale when the weighing value is stable.	Same as the TARE key.
U	Switches the weighing unit.	Same as the MODE key.
СТ	Clears tare	
	In five-level comparator mode : Not used	
?H3	In three-level comparator mode :Not used	
:113	In seven-level comparator mode : Threshold value of rank 5 is output.	
	In five-level comparator mode :HIHI limit value is	
	output.	The output of
?H2	In three-level comparator mode : Not used	setting values for
	In seven-level comparator mode : Threshold value of	comparator mode
	rank 4 is output.	*Internal setting in
	In five-level comparator mode : HI limit value is output.	comparator
?H1	In three-level comparator mode : HI limit value is output.	comprison mode
	In seven-level comparator mode: Upper threshold value of rank 3 is output.	Five-level mode:
	In five-level comparator mode : LO limit value is	"CP-L 0"
	output.	"[P-L "
?L1	In three-level comparator mode : LO limit value is	Three-level
, LI	output.	mode:
	In seven-level comparator mode : Threshold value of	"[P-L 2"
	rank 3 is output.	"[P-L]"
	In five-level comparator mode : LOLO limit value is	Seven-level
	output.	mode:
?L2	In three-level comparator mode :Not used	"[P-L 4"
	In seven-level comparator mode : Threshold value of	"[P-L 5"
	rank 2 is output.	
	In five-level comparator mode : Not used	
?L3	In three-level comparator mode : Not used	
. 20	In seven-level comparator mode : Threshold value of	
	rank 1 is output.	

Command	Description	Remarks
	In five-level comparator mode : Not used	
H3	In three-level comparator mode : Not used	
113	In seven-level comparator mode : The threshold value of rank 5 is stored.	
	In five-level comparator mode : HIHI limit value is stored.	
H2	In three-level comparator mode : Not used	
	In seven-level comparator mode : The threshold value of rank 4 is stored.	
	In five-level comparator mode : HI limit value is stored.	
	In three-level comparator mode : HI limit value is stored.	
H1	In seven-level comparator mode : The upper threshold value of rank 3 is stored.	Input the six-digit
	In five-level comparator mode : LO limit value is stored.	value excluding the polarity and
L1	In three-level comparator mode : LO limit value is stored.	decimal point.
	In seven-level comparator mode : The lower threshold value of rank 3 is stored.	
	In five-level comparator mode : LOLO limit value is stored.	
L2	In three-level comparator mode : Not used	
	In seven-level comparator mode : The threshold value of rank 2 is stored.	
	In five-level comparator mode : Not used	
L3	In three-level comparator mode : Not used]
LJ	In seven-level comparator mode : The threshold value of rank 1 is stored.	

Command Examples ("_" stands for "space" (20H))

☐ To request weighing data

Command Q C_R L_F

g |C_R| L_F |Stable positive data Reply S 0 2 4 5 1 3 k U S 7 8 9 0 k CR LF Unstable positive data + 0 0 g 0 9 9 9 9 9 9 9 k g C_R L_F E display

☐ To set zero point

Command Z CR LF

Reply Z CR LF When zero operation is possible

☐ To tare the weighing value

Command T C_R L_F

Reply T | CR | LF | When the tare operation can be performed

□ To cancel tare value

Command C T C_R L_F

Reply $C \mid T \mid C_R \mid L_F \mid$ Clear tare value (including when there is no tare)

- ☐ In 5-level comparator mode..Not use
 - In 3-level comparator mode..Not use

In 7-level comparator mode..Outputs upper threshold value of rank 5 in use

Command ? H 3 C_R L_F

Reply H 3 , + 0 0 5 0 0 0 C_R L_F

☐ In 5-level comparator mode.... Outputs the HIHI threshold value (upper limit value) in use

In 3-level comparator mode ... Not use

In 7-level comparator mode ... Outputs upper threshold value of rank 4 in use

Command ? H 2 C_R L_F

Reply H 2 , + 0 0 4 0 0 0 C_R L_F

	In 5-level comparator mode Outputs the HI threshold value (upper limit value) in use
	In 3-level comparator mode Outputs the HI threshold value (upper limit value) in use
	In 7-level comparator mode Outputs upper threshold value of rank 3 in use
	Command ? H 1 C _R L _F
	Reply H 1 , + 0 0 3 0 0 C _R L _F
	In 5-level comparator mode Outputs the LO threshold value (lower limit value) in use
	In 3-level comparator mode Outputs the LO threshold value (lower limit value) in use
	In 7-level comparator mode Outputs lower threshold value of rank 3 in use
	Command ? L 1 C _R L _F
	Reply L 1 , + 0 0 2 0 0 0 C _R L _F
	In 5-level comparator mode Outputs the LOLO threshold value (lower limit value) in use
	In 3-level comparator mode Not use
	In 7-level comparator mode Outputs lower threshold value of rank 2 in use
	Command ? L 2 C _R L _F
	Reply L 2 , + 0 0 1 0 0 0 C _R L _F
	In 5-level comparator modeNot use
	In 3-level comparator modeNot use
	In 7-level comparator mode Outputs lower threshold value of rank 1 in use
	Command ? L 3 CR LF
	Reply L 3 , + 0 0 0 0 0 0 C _R L _F
	In 5-level comparator mode Not use
	In 3-level comparator mode Not use
	In 7-level comparator mode Outputs upper threshold value of rank 3 in use
	Command H 3 , + 0 0 5 0 0 0 C _R L _F
	Reply H 3 . + 0 0 5 0 0 0 C _R L _E

In 5-level comparator mode Sets the HIHI threshold value (upper limit value) in use
,
In 3-level comparator modeNot use In 7-level comparator modeSets upper threshold value of rank 4 in use
Command H 2 , + 0 0 4 0 0 C _R L _F
Reply H 2 , + 0 0 4 0 0 0 C _R L _F
In 5-level comparator mode Sets the HI threshold value (upper limit
value) in use
In 3-level comparator mode Sets the HI threshold value (upper limit
value) in use
In 7-level comparator mode Sets upper threshold value of rank 3 in use
Command H 1 , + 0 0 3 0 0 0 C _R L _F
Reply H 1 , + 0 0 3 0 0 C _R L _F
In 5-level comparator modeSets the LO threshold value (lower limit
value) in use
In 3-level comparator mode Sets the LO threshold value (lower limit
value) in use
In 7-level comparator mode Sets lower threshold value of rank 3 in use
Command L 1 , + 0 0 2 0 0 0 C _R L _F
Reply
In 5-level comparator mode Sets the LOLO threshold value (lower limit
value) in use
In 3-level comparator mode Not use
In 7-level comparator mode Sets lower threshold value of rank 2 in use
Command $\begin{bmatrix} L & 2 & , & + & 0 & 0 & 1 & 0 & 0 & C_R & L_F \end{bmatrix}$
Reply L 2 , + 0 0 1 0 0 C _R L _F
In 5-level comparator mode Not use
In 3-level comparator mode Not use
In 7-level comparator mode Sets lower threshold value of rank 1 in use
Command L 3 , + 0 0 0 0 0 C _R L _F
Reply L 3 . + 0 0 0 0 0 CR LE

Precautions related to radio waves

Compliance with FCC Rules

This device contains transmitter module FCC ID: 2A6NFEC2832.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This product is certified as type of the portable device with FCC Rules. To maintain compliance with RF Exposure requirement, please use within specification of this product.

Note: Please note that this equipment generates, uses and can radiate radio frequency energy. This equipment has been tested and has been found to comply with the limits of Class A digital devices pursuant to Part 15 of FCC rules. These rules are designed to provide reasonable protection against interference when equipment is operated in a commercial environment. If this unit is operated in a residential area, it may cause some interference and under these circumstances the user would be required to take, at his own expense, whatever measures are necessary to eliminate the interference.

(FCC = Federal Communications Commission in the U.S.A.)

IC

IC RADIATION EXPOSURE STATEMENT FOR CANADA

This device contains transmitter module IC: 28568-EC2832.

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standards. Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables auxappareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

11. Sensitivity Adjustment

Adjusts the scale for accurate weighing. Adjust the scale in the following cases.

- When the scale is first installed.
- When the scale has been moved.
- ☐ When the ambient environment has changed.
- ☐ For regular sensitivity adjustment.

Note: The Legal for Trade models can not be re-adjusted if they have been sealed.

11.1. Sensitivity Adjustment Mode

- ☐ The sensitivity adjustment mode has the following three functions.
 - Gravity acceleration correction
 - Sensitivity adjustment using a weight
 - Restoring the factory set values
- ☐ How to enter the sensitivity adjustment mode

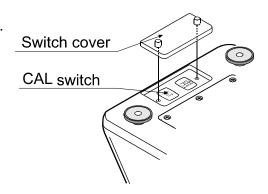
Method 1:

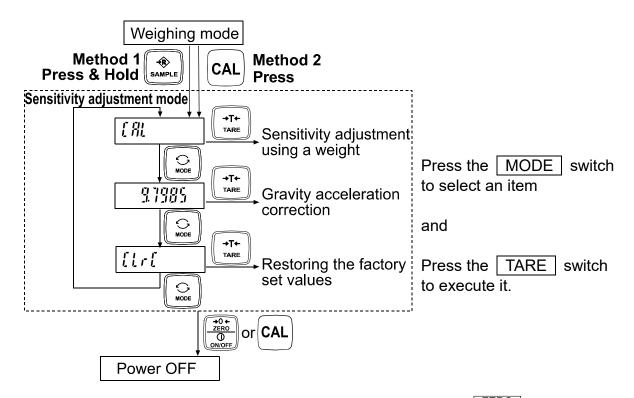
- 1. Make sure that the scale is in the weighing mode.
- 2. Press and hold the SAMPLE switch until the "CAL" appears and release the switch.

Note: The above operation is disabled for the Legal for Trade models.

Method 2:

- 1. Make sure that the scale is in the weighing mode.
- 2. Loosen the two screws on the switch cover and open the switch cover. The CAL switch is located inside.
- 3. Press the CAL switch. The scale displays the "CAL".





To exit from the sensitivity adjustment mode, press and hold the $\frac{ZERO}{ON/OFF}$ switch or press the $\frac{CAL}{CAL}$ switch. The scale turns the power OFF.

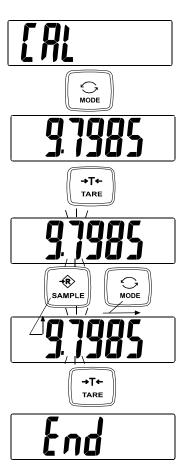
11.2. Gravity Acceleration Correction

When the scale is first used or has been moved to another location, it should be adjusted using a sensitivity adjustment weight. But if a sensitivity adjustment weight is not available, the gravity acceleration correction will compensate the scale. Change the gravity acceleration value stored in the scale to the value of the area where the scale will be used. Refer to the gravity acceleration map at the end of this manual.

Note: Gravity acceleration correction is not required when the scale will be adjusted using a sensitivity adjustment weight at the place where it is to be used.

- 1. Refer to "11.1. Sensitivity Adjustment Mode" to enter the sensitivity adjustment mode. The CAL is displayed.
- 2. Press the TARE switch to enter the gravity acceleration value setting mode.
- Change the displayed value using the following switches.
 MODE To shift the blinking digit to the right.
 SAMPLE To increase the value of the blinking digit by one.
- 4. Press the TARE switch. The display shows [Ind] and returns to the newly stored gravity acceleration value.
- When sensitivity adjustment using a sensitivity adjustment weight is to be performed, go to step 3 of "11.3. Sensitivity Adjustment Using a Weight".

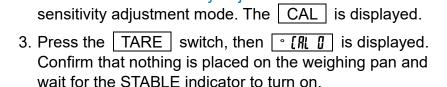
To finish the setting procedure, press and hold the ON/OFF switch or the CAL switch. The scale returns to the weighing mode.



11.3. Sensitivity Adjustment Using a Weight

Prepare a weight, preferably a weight with the same value as the weighing capacity of the scale to be adjusted. Note that the sensitivity adjustment weight value can be changed.

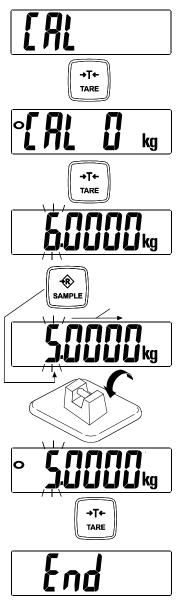
1. Turn the power ON and warm up the scale for at least half an hou	ır.
☐ Change the function setting Poff or place something on	
the weighing pan to disable the auto power-off function.	
2. Refer to "11.1. Sensitivity Adjustment Mode" to enter the	



4. Press the	TARE	switch. The scale adjusts the zero
point and o	displays	the value of the sensitivity adjustment
weight (SP	AN sens	sitivity adjustment).

- ☐ The sensitivity adjustment weight value is equal to the weighing capacity. (factory setting)
- ☐ If SPAN sensitivity adjustment is not to be performed, turn the power OFF to exit from the sensitivity adjustment procedure.
- 5. To adjust with a weight different from the weighing capacity, change the displayed value using the following switches.
 MODE To shift the digit that is blinking to the right.
 SAMPLE To increase the value of the blinking digit by one.
 - ☐ Using a weight with the same value as the weighing capacity is recommended. If other weights are used, use one with a value greater than two-thirds of the capacity.
- 6. Place the sensitivity adjustment weight with the same value as displayed on the weighing pan, and wait for the STABLE indicator to turn on.
- 7. Press the TARE switch. The scale adjusts SPAN and find is displayed. Then, the display returns to finish the procedure, press and hold the ON/OFF switch or press the CAL switch. The scale turns the power OFF.

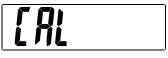
Note: If the scale will be moved to another location, set the gravity acceleration value for the present location first and adjust the scale using a weight. Then, change the gravity acceleration value for the new location.



11.4. Restoring the Sensitivity Adjustment Data to the Factory Set Values

If the gravity acceleration value or sensitivity adjustment data is changed unintentionally, restore those values to the factory set values, as follows.

1. Refer to "11.1. Sensitivity Adjustment Mode" to enter the sensitivity adjustment mode. The CAL is displayed.



2. Press the MODE switch twice to display [[[r[



3. Press the TARE switch to display [[[r[no]]]] with "no" blinking.



4. Press the SAMPLE switch.

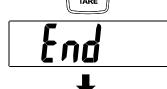
[[r[na] changes to [[r[la] with "la" blinking.



☐ To cancel the restoring procedure, press the ☐ ZERO ON/OFF switch. The display returns to step 2.

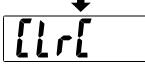


5. When [[r[[]]] is displayed, press the TARE switch. The factory set values are restored and [[nd]] is displayed. Then, the display returns to [[r[]]].



Press

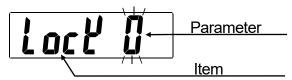
To finish the setting procedure, press and hold the ZERO ON/OFF switch or press the CAL switch. The scale turns the power OFF.



12. Function Settings

The scale has function settings to specify the scale performance.

The parameters set in the function settings are maintained even if the power is turned OFF.

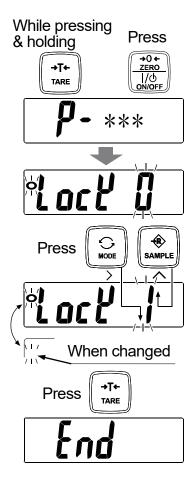


12.1. Setting the Parameters

- 1. Turn the power OFF.
- 2. Press and hold the TARE switch and press the ON/OFF switch to turn the power ON.

 The software version is displayed.
 - □ "***" indicates the software version number.
- 3. After about one second, the item is displayed.
- 4. Change the item or parameter using the following switches.
 MODE To display the next item.
 SAMPLE To increase the value of the blinking digit by one (to change the parameter).
 - ☐ When the parameter is changed, the STABLE indicator turns off.
- 5. Press the TARE switch to store the setting value.

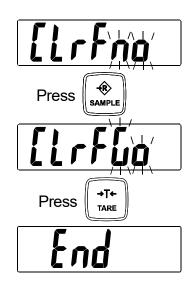
 After displaying Fnd, the scale goes to the weighing mode.
 - ☐ To cancel the setting procedure without storing the value, press and hold the ☐ SWITCH SWI



12.2. Restoring the Function Settings to the Factory Set Values

- 1. Turn the power OFF.
- 2. Press and hold the TARE switch and press the ZERO ON/OFF switch to turn the power ON and to display the software version. Release the ZERO ON/OFF switch but continue to press the TARE switch until [[[rfno]]] with "no" blinking is displayed.
- 3. Press the SAMPLE switch.

 [[trfna] changes to [[trfla] with "la" blinking.
- 4. When [[rf[n]] is displayed, press the TARE switch. The factory set values are restored. After displaying find, the scale goes to the weighing mode.
 - To cancel the restoring procedure, press and hold the ZERO ON/OFF switch to turn off the scale.



12.3. Function List

Item	Paramete	r Description		
Key lock	+ []	All function is enable.		
Loce	,	Enable function:		
L 0 C C	1	ON/OFF key, zero key, Tare key		
	G	Auto power-off function disabled		
Auto power-off	+	Turns off after 5 minutes		
function	2	Turns off after 10 minutes	Turns the power OFF	
Poff	3	Turns off after 15 minutes	automatically.	
' ' ' ' '	4	Turns off after 30 minutes		
	5	Turns off after 60 minutes		
Weight display	G	1/3,000		
resolution	+ ;	1/6,000 or 1/7,500	Changes the minimum	
	2	1/15,000 or 1/12,000	display.	
rESo	3	1/30,000		
	SAMPLE	Proceeds to the next unit	Refer to	
Weighing unit	TARE	Selects whether a unit is active or	"6. Selecting a	
Un it	IAIL	inactive	Weighing Unit"	
	MODE	Proceeds to the next setting	Weighing Offic	
Zero tracking	G	Zero tracking function disabled	Tracks the zero drift.	
trc	+ ;	Zero tracking function enabled	Tracks the Zero drift.	
	G	Weak stability & quick response	Response =	
Weighing stability		」 ↑	Time from placing an	
/response speed	اح •		object on the pan to	
[ond	3		turning on the stable	
	4	Strong stability & slow response	indicator.	
	G	Backlight always off		
	1	Backlight always on	Sets the timing to trun	
	اح •	Turns off 5 seconds after stabilizing	off the backlight.	
Backlight control	3	Turns off 10 seconds after stabilizing	Backlight turns on by	
L - 1F	y	Turns off 15 seconds after	weight change or	
	,	stabilizing	switch operation.	
	5	Turns off 30 seconds after	отпол орогошет.	
		stabilizing		
 		Dark		
Brightness of	<u> </u>	4 1	Adjusts the brightness	
backlight	+ 2	-	of the backlight.	
L - ,	3	- _ ↓		
	4	Bright		
Decimal point	+ []	Dot		
Pot		Comma		

[•] Factory setting

Item	Parameter	Description		
	0	Five-level (Result LED blinks.)		
Comparator	}	Five-level (Result LED lights.)		
mode	2	Three-level (Result LED blinks.)	Sets comparator	
[P-L	+ }	Three-level (Result LED lights.)	mode.	
	4	Seven-level (Result LED blinks.)		
	5	Seven-level (Result LED lights.)		
	Ü	Comparator disabled		
	+	Compares all data	Sets comparison	
Comparison	2	Compares all stable data	conditions.	
conditions	3	Compares all data of ≥ +5d or ≤ -5d		
[P	4	Compares stable data of ≥ +5d or ≤ -5d	d = minimum	
	5	Compares data of ≥ +5d	display in kg	
	6	Compares stable data of ≥ +5d		
	ũ	Dark	A.II. 4 J.E.D.	
Comparator LED	-	†	Adjusts LED	
brightness	+ 2		brightness of	
[P-,	3		comparison	
	4	Bright	result.	
Normal/Negative	+ []	Normal comparison		
comparison	,	Negative comparison for take-away check		
[P-P		weighing	Refer to	
Auto-tare	+ []	Auto-tare function disabled	"9. Auto-Tare".	
function FL	1	Auto-tare function enabled		
	Ü	Immediately after OK and stable		
	- 1	0.5 second after OK and stable		
	+ 2	1.0 second after OK and stable	Timing to tare	
	3	1.5 seconds after OK and stable	automatically	
Auto-tare timing	ų	2.0 seconds after OK and stable	after the	
AF-F	5	2.5 seconds after OK and stable	comparison OK	
	5	3.0 seconds after OK and stable	and stable	
	7	4.0 seconds after OK and stable	weight.	
	8	5.0 seconds after OK and stable		
	9	10 seconds after OK and stable		
Auto-tare of the	+ []	Function disabled	Automotic	
initial weight #E -F	1	Tares the initial (container) weight	Automatic operation.	

[•] Factory setting

Item	Parameter	Description		
		Stream mode/command mode		
	1	Command mode only		
	ح ٠	Output by print key		
	, r	/command mode		
]	Auto print +/- data output		
		/command mode		
Output mode	ų l	Auto print + data output	SJ-WP-BT model only	
Prt	'	/command mode	100-VVI -DT Model Only	
		Auto comparator +/- data output on		
	5	comparator OK		
		/command mode		
	8	Auto comparator + data output on		
		comparator OK		
		/command mode		

[•] Factory setting

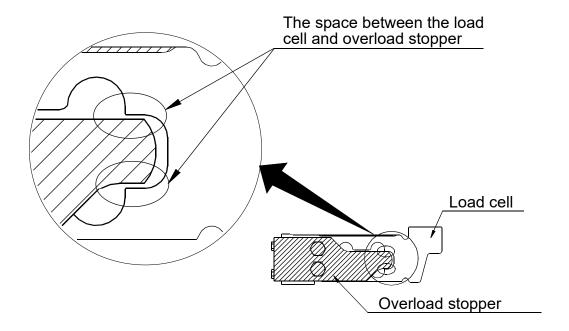
13. Maintenance

13.1. Notes on Maintenance

- □ Do not disassemble the scale. Contact your local A&D dealer if the scale needs service or repair.
- ☐ Use the original packaging for transportation.
- □ Do not use organic solvents to clean the scale. Use a warm lint free cloth dampened with a mild detergent.
- ☐ Adjust the scale periodically to maintain the weighing accuracy.

13.2. Pick Cleaning

When unable to weigh properly due to dust between the load cell and overload stopper, insert a cleaning pick to remove the dust from the load cell.

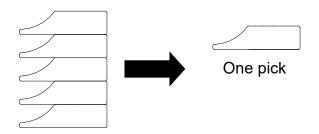


Note: There are five cleaning picks per sheet.

To use, cut off a cleaning pick when needed.

Use scissors or any bladed object to cut along the perforations to separate a cleaning pick for use.

Exercise extreme caution when using the bladed object to prevent personal injury.



13.3. Error Codes

Overload error

E

Indicates that an object beyond the weighing capacity has been placed on the weighing pan.

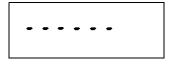
Remove the object from the weighing pan.

Underload error



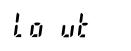
Indicates that the weight sensor receives a strong upward force. Check if there is anything sandwiched around the weighing pan. There is a possibility that the weight sensor or internal circuit may have a problem.

Power-on zero error



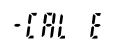
Indicates that the power is turned on with a load beyond the power-on zero range, or the weight value too unstable to perform power-on zero. Remove the load, or check if there is wind, vibration or anything touching the weighing pan.

Unit weight error



Indicates that total weight of samples is too light to set the unit weight in the counting mode. Increase the number of samples and try again

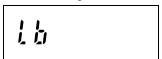
Sensitivity adjustment error



Indicates that the sensitivity adjustment procedure is canceled because the sensitivity adjustment weight is too light.

Check that the weighing pan is installed properly and the mass of the sensitivity adjustment weight is correct.

Low battery



Indicates that the batteries have run out. Replace them with new batteries.

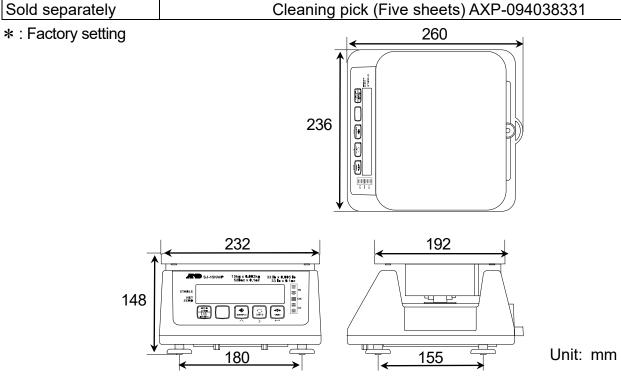
Other

There may be an internal malfunction. (* indicates an error number.)

Note: If the error persists or other errors occur, contact your local A&D dealer.

14. Specifications

Model	SJ-3000WP/-BT	SJ-6000WP/-BT	SJ-15KWP/-BT	SJ-30KWP/-BT
Capacity	3 kg	6 kg	15 kg	30 kg
	0.001 kg	0.002 kg	0.005 kg	0.01 kg
Minimum diaplay "d"	0.0005 kg*	0.001 kg*	0.002 kg*	0.005 kg*
Minimum display "d"	0.0002 kg	0.0005 kg	0.001 kg	0.002 kg
	0.0001 kg	0.0002 kg	0.0005 kg	0.001 kg
Counting	Num	ber of samples : 5, Maximum cour	10, 20, 50 or 100 p nt : 120,000	ieces
Repeatability (SD)	0.5 g	1 g	2 g	5 g
Linearity	±1 g	±2 g	±5 g	±10 g
Sensitivity drift			35 °C/41 °F to 95	°F)
Display	Weight display : 7 segment LCD with backlight, Character height : 26 mm Comparator LEDs : red/yellow/green/yellow/red			n
Display update	20 times per second			
Operating temperature	-10 °C to 40 °C/14 °F to 104 °F, less than 85 %RH			
Power	6 x R20P/LR20/"D" size batteries			
Battery life (Approximately) SJ-WP Model	5000 hours with alkaline cells at 25 °C (LED & backlight off) 2000 hours with alkaline cells at 25 °C (LED & backlight on)			
Battery life (Approximately) SJ-WP-BT Model	2500 hours with alkaline cells at 25 °C (LED & backlight off) 1300 hours with alkaline cells at 25 °C (LED & backlight on)			
Pan size	232 (W) x 192 (D) mm/9.13 (W) x 7.56 (D) in.			
Dimensions	236 (W) x 26	0 (D) x 148 (H) mm	n/9.3 (W) x 10.2 (D) x 5.8 (H) in.
Mass	Approximately 4 kg/9 lb			
Accessories	This manual, Screwdriver, Cleaning pick (One sheet)			
Sold separately	Cleaning pick (Five sheets) AXP-094038331			



Other weighing units

Model		SJ-3000WP	SJ-6000WP	SJ-15KWP	SJ-30KWP
	Capacity	3000 g	6000 g	15000 g	30000 g
a		1 g	2 g	5 g	10 g
g	Minimum	0.5 g*	1 g*	2 g*	5 g*
	display	0.2 g	0.5 g	1 g	2 g
		0.1 g	0.2 g	0.5 g	1 g
	Capacity	6.6 lb	13 lb	33 lb	66 lb
		0.002 lb	0.005 lb	0.01 lb	0.02 lb
lb	Minimum	0.001 lb*	0.002 lb*	0.005 lb*	0.01 lb*
	display	0.0005 lb	0.001 lb	0.002 lb	0.005 lb
		0.0002 lb	0.0005 lb	0.001 lb	0.002 lb
	Capacity	105 oz	210 oz	520 oz	1050 oz
		0.05 oz	0.1 oz	0.2 oz	0.5 oz
OZ	Minimum	0.02 oz*	0.05 oz*	0.1 oz*	0.2 oz*
	display	0.01 oz	0.02 oz	0.05 oz	0.1 oz
		0.005 oz	0.01 oz	0.02 oz	0.05 oz
	Capacity	96 ozt	193 ozt	480 ozt	960 ozt
	Minimum display	0.05 ozt	0.1 ozt	0.2 ozt	0.5 ozt
ozt		0.02 ozt*	0.05 ozt*	0.1 ozt*	0.2 ozt*
		0.01 ozt	0.02 ozt	0.05 ozt	0.1 ozt
		0.005 ozt	0.01 ozt	0.02 ozt	0.05 ozt
	Capacity	6 lb 9 oz	13 lb	33 lb	66 lb
lb-oz	Minimum display	0.1 oz	0.1 oz	0.1 oz	0.1 oz
Catty-tl	Capacity	4 c 15 tl	9 c 14 tl	24c 12tl	49 c 9 tl
(HG)**	Minimum display	0.01 tl	0.1 tl	0.1 tl	0.1 tl
	Capacity	5 c	10 c	25 c	50 c
Catty-tl (<i>HJ</i>)**	Minimum display	0.01 tl	0.1 tl	0.1 tl	0.1 tl
	Capacity	5 c	10 c	25 c	50 c
Catty-tl (<i>T</i>)**	Minimum display	0.01 tl	0.1 tl	0.1 tl	0.1 tl
	Capacity	257 t	510 t	1280 t	2570 t
	. ,	0.1 t	0.2 t	0.5 t	1 t
Tola	Minimum	0.05 t*	0.1 t*	0.2 t*	0.5 t*
	display	0.02 t	0.05 t	0.1 t	0.2 t
		0.01 t	0.02 t	0.05 t	0.1 t

* : Factory setting

** : Catty-tael, *HG*: Hong Kong General/Singapore, *HJ*: Hong Kong Jewelry, *T*: Taiwan

SJ-WP Series Class III Model Specifications

Model	SJ-3000WP/-BT	SJ-6000WP/-BT	SJ-15KWP/-BT	SJ-30KWP/-BT	
Accuracy class	III				
Maximum Capacity	3000 g	6000 g	15 kg	30 kg	
Readability	0.5 g (0 to 1500 g)	1 g (0 to 3000 g)	2 g (0 to 6 kg)	5 g (0 to 15 kg)	
	1 g (1500 to 3000 g)	2 g (3000 to 6000 g)	5 g (6 to 15 kg)	10 g (15 to 30 kg)	
Minimum capacity	10 g	20 g	40 g	100 g	
Maximum tare	3000 g	6000 g	15 kg	30 kg	
Operating temp.		-10°C to 40°C (No	condensation)		
	Weight dis	splay : 7 segme	nt LCD with white	backlight,	
Display		Characte	er height : 26 mm		
	Comparat	tor LEDs : red/yello	ow/green/yellow/	red	
Display update	Approximately 20 times per second				
Power	6 x R20P/LR20/"D" size batteries				
Battery life	5000 hours with alkaline cells at 20°C (LED & Backlight off) 2000 hours with manganese cells at 20°C (LED & Backlight off)				
(Approximately)					
SJ-WP Model	2000 Hours wit	Trinanganese cens	at 20 O (LLD & Di	acklight on)	
Battery life	2500 hours wit	h alkaling calls at 2	0°C (I ED & Backli	aht off)	
(Approximately)	2500 hours with alkaline cells at 20°C (LED & Backlight off) 1300 hours with manganese cells at 20°C (LED & Backlight off)				
SJ-WP-BT Model	1300 flours with manganese cens at 20 C (LED & Backlight on)				
Platform size	232 (W) x 192 (D) mm				
Dimensions	236 (W) x 260 (D) x 148 (H) mm				
Weight	Approximately 4 kg				
Sensitivity adjustment veight $3000 \text{ g} \pm 0.1 \text{ g}$ $6000 \text{ g} \pm 0.2 \text{ g}$ $15 \text{ kg} \pm 0.5 \text{ g}$ $30 \text{ kg} \pm 1$					

Note:

The range for power-on zero is within ± 10% of the weighing capacity at the adjusted
zero point.
The weighing units "g", "kg" and "pcs" are available.
The selection in the function settings $rE5a$, $RE-E$, and $RE-F$ is not
available.

Power-on:

Turning the power on, the scale will be automatically set to zero.

If the power is switched on with a load within +/-10 % of the weighing capacity at the adjusted zero point (power-on zero range), the scale is zeroed and the ZERO indicator turns on. If the load is beyond the power-on zero range, the scale is tared and the ZERO and the NET indicators turn on.

Error Message:

indicates that the gross value (weight value with no tare operation) is less than -19d. If the STABLE indicator is ON, press the $\frac{ZERO}{ON/OFF}$ switch to ZERO the scale. If the STABLE indicator is OFF, turn the power off and on again. If these instructions do not work, there is a possibility that the weight sensor or internal circuit may have a problem.

15. Gravity Acceleration

Values of gravity at various locations

Amsterdam	9.813 m/s ²
Athens	9.807 m/s ²
Auckland NZ	9.799 m/s ²
Bangkok	9.783 m/s ²
Birmingham	9.813 m/s ²
Brussels	9.811 m/s ²
Buenos Aires	9.797 m/s ²
Calcutta	9.788 m/s ²
Cape Town	9.796 m/s ²
Chicago	9.803 m/s ²

Calcutta	9.788 m/s ²
Cape Town	9.796 m/s ²
Chicago	9.803 m/s ²
Copenhagen	9.815 m/s ²
Cyprus	9.797 m/s ²
Djakarta	9.781 m/s ²
Frankfurt	9.810 m/s ²
Glasgow	9.816 m/s ²

Havana Helsinki Kuwait Lisbon London (Greenwich) Los Angeles

Lisbon 9.801 m/s²
London (Greenwich) 9.812 m/s²
Los Angeles 9.796 m/s²
Madrid 9.800 m/s²

9.788 m/s²

9.819 m/s²

9.793 m/s²

Manila	9.784 m/s ²
Melbourne	9.800 m/s ²
Mexico City	9.779 m/s ²
Milan	9.806 m/s ²
New York	9.802 m/s ²
Oslo	9.819 m/s ²
Ottawa	9.806 m/s ²
Paris	9.809 m/s ²
Rio de Janeiro	9.788 m/s ²
Rome	9.803 m/s ²
San Francisco	9.800 m/s ²
Singapore	9.781 m/s ²
Stockholm	9.818 m/s ²
Sydney	9.797 m/s ²
Taichung	9.789 m/s ²
Tainan	9.788 m/s ²
Taipei	9.790 m/s ²
•	

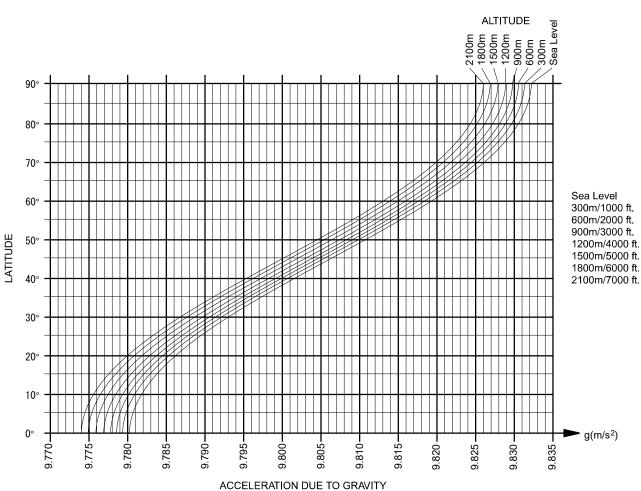
9.798 m/s²

9.809 m/s²

9.801 m/s²

9.803 m/s²

9.807 m/s²



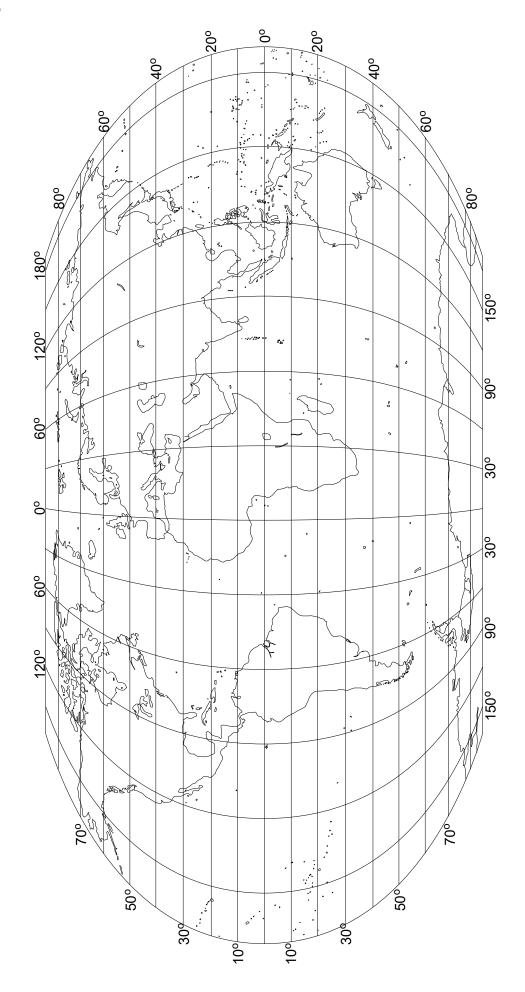
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