

INSTRUCTION MANUAL

SK-1000WP SK-2000WP SK-5000WP SK-10KWP SK-20KWP SK-30KWP



1WMPD4000722B

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:

A potentially hazardous situation which, if not avoided, could result in death or serious injury.
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 manufacture.
- When using the SK-WP, the following safety precautions should always be followed.

AWARNING Use only the specified AC adapter for the scale. Other adapters may cause damage. (AC adapter is optional.)

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

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

Do not mix battery type, 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 to 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.

When the scale is used with an AC adapter, the scale does not conform to IP65 protection.

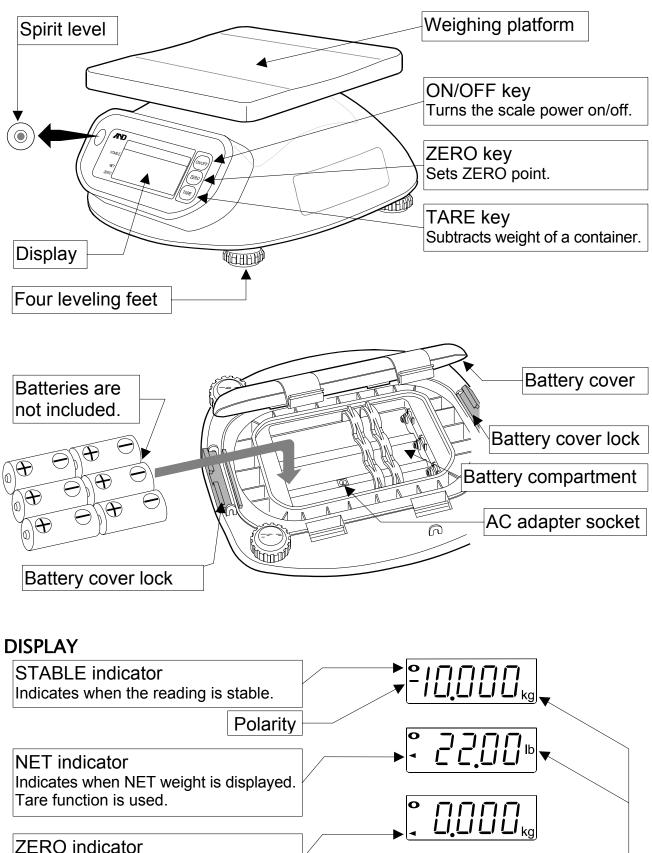
IP65

Degrees of protection against water: Protected against water jets.

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

International **P**rotection of IEC529.

PARTS DESCRIPTION



Indicates when the scale zero is correct.

Weighing unit

PREPARATION

Installing Batteries / Connecting The AC Adapter

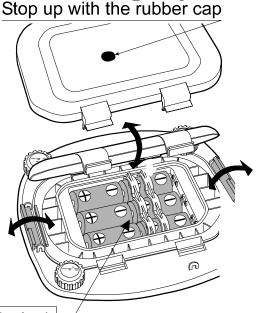
Installing Batteries

CAUTION When replacing batteries, be careful not to apply too much force to the weighing platform. An excessive force could damage the scale.

Unlock and remove the battery cover. (See illustration at the right)

Insert six new batteries (R20P / LR20 / D size) into the battery compartment, taking extreme care to that the plus and minus polarities are observed.

Be sure to install and lock the battery cover after installing the batteries.

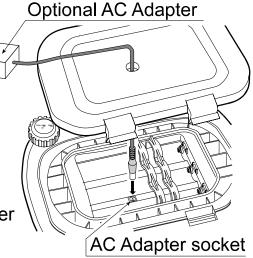


New six batteries. (R20P/ LR20/ D size)

AC Adapter (Optional)

▲ CAUTION When using an AC adapter, the scale doesn't comply with IP65. The AC input requirement could be 100, 120, 220, 230 or 240 volts (50/60Hz) depending on the area where used, so please verify that the adapter is the correct type.

Plug the AC adapter into the AC adapter socket inside the battery compartment.



Setting Up The Scale

CAUTION Avoid installing the scale in direct sunlight, that may cause discoloration or malfunctions. Place your SK-WP 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 to level the scale, while using the sprit level, for accurate weighing.

WEIGHING

Before Weighing

Automatic Power-Off Function

If the scale is left ON and the stable indicator is displayed, an automatic power-off function turns the power off after approximately five minutes (factory setting). To disable or enable the function, press the [ON/OFF] key while pressing the [TARE] key. The scale stores this setting. To verify this, press both the [TARE] and [ZERO] keys while in the weighing mode.

*P*oFF^[] Function disabled.

*P*_o*FF* | Function enabled.

Error Messages



Overload

The scale zero is out of range

Low battery

Calibration May be Required Before Weighing

Read "CALIBRATION" first and if necessary, calibrate your scale for accurate weighing.

Weighing Procedures

1. Turn on the scale

Press the [ON/OFF] key to turn on the scale. Then the scale displays all segments for a few seconds and then

2. Start weighing

If you do not use a container for weighing:

Press the [ZERO] key to display . Verify the reading is . Place objects on the weighing platform to weigh.

When the reading becomes stable, the stable indicator **O** is displayed.

If you use a container for weighing:

Press the [ZERO] key to display [].

Place an empty container on the platform.

Wait for the stable indicator \bullet to be displayed and press the [TARE] key. Place the objects to be weighed in the container. When the reading becomes stable, the stable indicator \bullet is displayed.

3. Select the weighing unit

All SK-WP models have the unit selection of "lb" or "(k)g". When turning on the scale with the factory setting, "lb" is displayed.

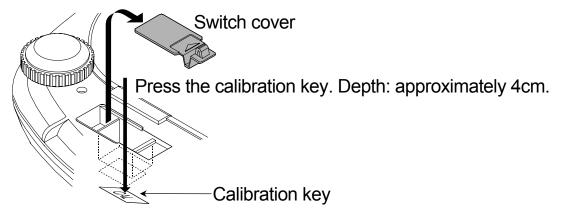
To select the alternate unit of weight "(k)g" or "lb":

Turn the scale off. Press and hold the [ZERO] key, then press the [ON/OFF] key. The scale will display the alternate unit of weight.

CALIBRATION

When To Calibrate

Calibration may be required when the scale is initially installed, if it is moved a substantial distance, or in accordance with local regulations. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.



Calibration Using A Calibration Weight

Calibrate the scale with the following calibration weight.

SK-1000WP: 1000g ± 0.1g SK-5000WP: 5000g ± 0.5g SK-20KWP: 20kg ± 2g SK-2000WP: 2000g ± 0.2g SK-10KWP: 10kg ± 1g SK-30KWP: 30kg ± 2g

1. Enter the calibration mode

Press the calibration key while in the weighing mode. The display will show $\boxed{[R]}$.

2. Zero calibration

Press the [TARE] key to calibrate zero. $\boxed{[RLD]}$ will be displayed. Wait for the stable indicator \bigcirc to be displayed and press the [TARE] key. $\boxed{[RLF]}$ will be displayed in a few seconds. If the zero calibration only is to be done, press the [ZERO] key. The scale will show $\boxed{[End]}$ and automatically return to the weighing mode.

3. Span calibration

Place the weight at the center of the weighing platform for accurate calibration. Wait for the stable indicator \bullet to be displayed and press the [TARE] key. The scale will show $\boxed{\mathcal{E}nd}$ and automatically return to the weighing mode.

Calibration By Gravity Compensation

If you have calibration weights at the capacity of the scale, you can calibrate the scale with the weights instead of compensating for the gravity acceleration.

The scale is calibrated at 9.798 m/sec² at the factory. If the gravity acceleration at your location is not the same, calibrate the scale by compensating the gravity acceleration. (Refer "The Value of Gravity at Various Locations" and "World Map" and find your location value.)

1. Enter the calibration mode

Press the calibration key while in the weighing mode. [R] will be displayed.

2. Select a digit to be changed

Press the [ZERO] key. The previously set value, for example 979,8, will be displayed. A digit after the comma "," will be changed by pressing the [TARE] key. Press the [ZERO] key to move the comma "," and select a digit to be changed.

3. Set the new value

Change the value of the gravity acceleration using the [TARE] and [ZERO] keys.

4. Save the value in memory

Press and hold the [ZERO] key until End is displayed. The scale will automatically return to the weighing mode.

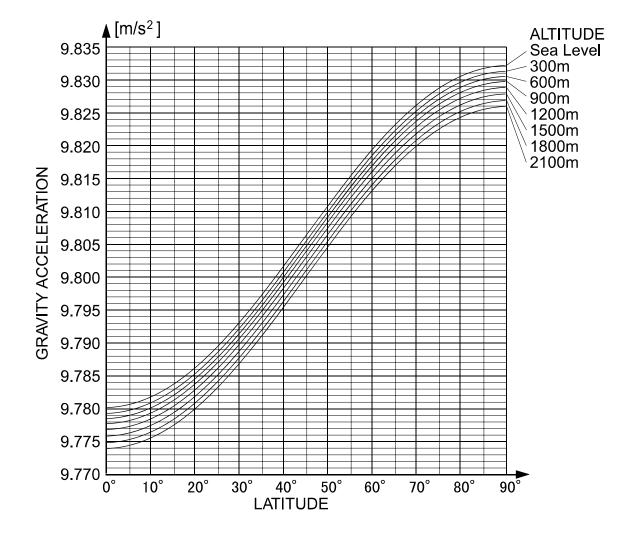


SPECIFICATIONS

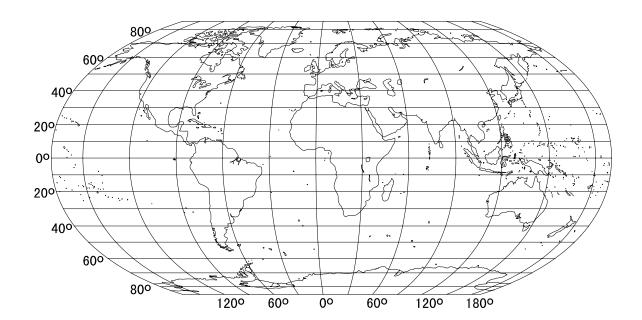
	-		-					
Model	SK-1000WP	SK-2000WP	SK-5000WP	SK-10KWP	SK-20KWP	SK-30KWP		
Capacity	1000 g	2000 g	5000 g	10 kg	20 kg	30 kg		
	2.2 lb	4.4 lb	11 lb	22 lb	44 lb	66 lb		
Resolution	0.5 g	1 g	2 g	0.005 kg	0.01 kg	0.02 kg		
	0.001 lb	0.002 lb	0.005 lb	0.01 lb	0.02 lb	0.05 lb		
Non-linearity	±1g	±2g	±4g	±0.01 kg	±0.02 kg	±0.04 kg		
Repeatability	0.5g	1g	2g	0.005 kg	0.01 kg	0.02 kg		
Operating	10°C~40°C / 14°E~104°E ooo thop 95% DU							
temp.	-10°C~40°C / 14°F~104°F, Less than 85%RH							
Display	25 mm / 0.98 inches, 7 segment liquid crystal display							
Display	Approximately 10 times per second							
update	Approximately 10 times per second							
Power	6 x R20P / LR20 / "D" size batteries or AC adapter							
Battery life	Approximately 600 hours with manganese type							
Platform	232 (W) x 192 (D) mm / 9.13 (W) x 7.56 (D) in.							
size								
Dimensions	266 (W) x 280 (D) x 146 (H) mm / 10.48 (W) x 11.03 (D) x 5.75 (H) in.							
Weight		2.9	3.2 kg					
(approx.)		6.4	7.1 lb					
Calibration	1000a+0 1a	2000a+0.2a	5000g±0.5g	10kg ±1g	20kg ±2g	30kg ±2g		
weight	10009±0.19	2000g±0.2g	0000g±0.0g	iong ± ig		cong ±2g		
Accessories	This manual							
Options	AC adapter							

The Value Of Gravity At Various Locations

Amsterdam	9.813 m/s ²	Havana	9.788 m/s ²	Paris	9.809 m/s ²
Athens	9.807 m/s ²	Helsinki	9.819 m/s ²	Rio de Janeiro	9.788 m/s ²
Auckland, NZ	9.799 m/s ²	Kuwait	9.793 m/s ²	Rome	9.803 m/s ²
Bangkok	9.783 m/s ²	Lisbon	9.801 m/s ²	San Francisco	9.800 m/s ²
Birmingham	9.813 m/s ²	London (Greenwich)	9.812 m/s ²	Singapore	9.781 m/s ²
Brussels	9.811 m/s ²	Los Angeles	9.796 m/s ²	Stockholm	9.818 m/s ²
Buenos Aires	9.797 m/s ²	Madrid	9.800 m/s ²	Sydney	9.797 m/s ²
Calcutta	9.788 m/s ²	Manila	9.784 m/s ²	Taichung	9.789 m/s ²
Cape Town	9.796 m/s ²	Melbourne	9.800 m/s ²	Tainan	9.788 m/s ²
Chicago	9.803 m/s ²	Mexico City	9.779 m/s ²	Taipei	9.790 m/s ²
Copenhagen	9.815 m/s ²	Milan	9.806 m/s ²	Tokyo	9.798 m/s ²
Cyprus	9.797 m/s ²	New Delhi	9.791 m/s ²	Vancouver, BC	9.809 m/s ²
Djakarta	9.781 m/s ²	New York	9.802 m/s ²	Washington, DC	9.801 m/s ²
Frankfurt	9.810 m/s ²	Oslo	9.819 m/s ²	Wellington, NZ	9.803 m/s ²
Glasgow	9.816 m/s ²	Ottawa	9.806 m/s ²	Zurich	9.807 m/s ²



World Map





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