Price Computing Scale – AP

User Manual

SNOWREX INTERNATIONAL CO., LTD.
SRAP200808

Table of Contents

5. Zero Point Calibration

XXXXX 0 Pnt 0	The first line shows AD Value, the second line shows "0", and the third line shows "Pnt 0."

Remove weight from pan. Wait for the AD value is stable, press [icon] key to enter next step.

6. Calibration by 1/3 of the maximum capacity

XXXXX 2000 Pnt 1	The first line shows AD Value, the second line shows the weight of 1/3 of the maximum (Unit: gram), and the third line shows "Pnt 1."

Put on poise of the 1/3 weight by the maximum capacity. Wait for the AD value is stable,

press [icon] key to enter next step.

7. Calibration by 2/3 of the maximum capacity

XXXXX 4000 Pnt 2	The first line shows AD Value, the second line shows the weight of 2/3 of the maximum (Unit: gram), and the third line shows "Pnt 2."

Put on poise of the 2/3 weight by the maximum capacity. Wait for the AD value is stable,

press [icon] key to enter next step.

8. Calibration by the maximum capacity

XXXXX 6000 Pnt 3	The first line shows AD Value, the second line shows the maximum weight (Unit: gram), and the third line shows "Pnt 3."

Put on poise of full capacity of the scale. Wait for the AD value is stable, press [icon] key to enter next step.

9. Take off poise from pan, and the instrument will restart automatically.

RS 232 Setting

The AP Series scale supports RS 232 configuration is 9600-8-N-1. It will output weight data when the weight is stable.

Calibration Procedure

Notice: This section can only be operated by engineers.

Please remove the jumper JP3 before you start the calibration process. Put the JP3 jumper back after the calibration is complete.

During the Calibration procedure, press [C] to switch selection, and press [↧] to accept setting.

1. SEL maximum capacity

SEL value	Maximum Capacity
06	6 kg
15	15 kg
30	30 kg

2. Decimal point

	Explanation
dP 0	No decimal point
dP 0.0	One digit behind decimal point
dP 0.00	Two digits behind decimal point

3. Debug setting

	Explanation
dEbUG 0	Use as in the normal mode.
dEbUG 1	When in weighing mode, the third line of LCD is zero point or the zero point after taring, the division is 0.1g; the second line shows current weight and the division is 0.1g.

4. Zero tracking

	Explanation
trACH 0	Zero tracking disable
trACH 1	Zero tracking enable

Specification

Basic specification

Display Digit	LCD, height 14.5mm, 6/7/7(Weigh/Unit Price/ Total)
Platter Size(mm)	245 x 355(WxH)
Dimensions(mm)	387x365x117(WxLxH)
Net Weight(kg)	4.5kg(with pillar); 3.7kg(without pillar)
Operating Temperature	$0°$ C to $+40°$ C
Relative Humidity	Less than 85%
Power	9V / 500mA, AC adapter; Built in 6V Rechargeable Battery
Interface	RS-232C 9600-8-N-1

Series specification

Model	**AP-6D**	**AP-15D**	**AP-30D**
Max_1 / Max_2=	3kg / 6kg	6kg / 15kg	15kg / 30kg
Min_1 / Min_2=	20g / 3kg	40g / 6kg	100g / 15kg
e_1 / e_2=	1g / 2g	2g / 5g	5g / 10g
Accuracy	1/3000(Dual)	1/3000(Dual)	1/3000(Dual)

Operation

Keys

Normal unit price input

- In weighing mode, pressing the white number keys to input the unit price. Total price will be automatically calculated when there is weight on the scale.

- When there is no weight on the scale, the unit price will be cleared in 3 seconds. However, the price will not be cleared when programming price into PLU.

PLU Data setting

Steps in setting PLU no. 1~32

1. Press white number key to enter Unit Price.

2. Press **PLU** key, and you should see the "PLU" flash on LCD.

3. Select the PLU key to set the PLU number

4. Press **PLU** key to save the setting. The "PLU" will stop flashing on LCD.

Setting and Calibration

1. Press and hold any key while turning the scale ON. It will show CAL on the LCD display.

2. Press ⬚**c** key to choose between CAL 1 and CAL 2.

3. Select CAL 1, press ⬚ key to enter general setting.

4. Select CAL 2, press ⬚ key to enter scale type setting.

   Note:

   ● To perform calibration, you must remove the JP3 jumper from the MCU first. Put the JP3 back after calibration is complete.

General setting

During the procedure, Press ⬚**c** key for switching your selection, and ⬚ key is used for confirm/complete.

1. AoFF – Sleep mode setting

AoFF value	Explanation
0	Shut off sleeping mode.
1	If no operation, enter sleeping mode in 5 minutes.
2	If no operation, enter sleeping mode in 10 minutes.
3	If no operation, enter sleeping mode in 20 minutes.
4	If no operation, enter sleeping mode in 30 minutes.

2. BL Backlight setting

BL value	Explanation
0	Shut down backlight
1	Turn on backlight
2	Automatic backlight

PLU & ACC Mode Description

Appearance	Mode Description
Neither PLU LCD nor ACC LCD light up or flash	**Weighing Mode** ➢ Able to input the unit price
PLU light up, not flash.	**PLU unit price indication** ➢ PLU setting is finished.
PLU flashing	**PLU setting mode 1** ➢ During PLU setting, please input the PLU set to be saved and press **PLU** to finish.
1. PLU light up, no flash. 2. The number below PLU keep flashing.	**Loading PLU mode** ➢ During PLU reading, please input the PLU number, and press **PLU** to complete.
ACC light up, no flash. Numbers in weight column.	**ACC accumulation indication** ➢ Several sets of data have been saved. Press **MR** to enter circulating data display mode.
ACC flashing	**Show ACC memory mode.** ➢ The number above ACC is the set of the data. No weighing function at this moment. ➢ Press **MR** to circulate and display data. ➢ Press **M+** to go back to weighing mode.
1. ACC light up, no flash. 2. The weight column is empty. 3. The unit price column shows ᴸᴼᴸᴬᴸ	**Total price display mode** ➢ The number above ACC is the set of data. No weighing function at this moment. ➢ Total price column is the price summation of all the data. ➢ Press **C** key to clear all data. ➢ Press **M+** to return to weighing mode.

Steps in setting PLU no.0~999

1. Press white number key to set unit price.

2. Press **PLU** and you will see "PLU" flash on LCD.

3. Press white number key to select PLU number.

4. Press **PLU** to complete setting, "PLU" stop flashing on LCD.

- If the input isn't completed within 30 seconds, the setting will be suspended and exit to normal weighing mode.

Loading PLU

Steps in loading PLU no.1-32

- In weighing mode, pressing any key from the left 16 number keys will access the PLU memory of the key's lower-right set at once.

- If you press the same key again, it will access the PLU memory of the key's upper-left set

Example

1. Press ![key] one time, the 13th PLU is loaded. The LCD shows 13.

2. Press ![key] again, the 29th set's PLU memory, LCD shows 29.

3. Press ![key] to access 1st set's PLU memory, LCD shows 1.

Steps in loading PLU no.0-999

1. In weighing mode, press and hold **PLU** key until double beep sound arise then release **PLU** key.

2. Press the white number keys to input the desired PLU number.

3. Press **PLU** key again, and the reference PLU is loaded.

# Modify PLU

1. First load the PLU you want to modify. Press **PLU** key and you will see the Unit Price flashing.

2. Press white number keys to set unit price.

3. Press **PLU** to save the setting. The Unit Price stops flashing, and the price is updated.

Example

1. Press ![key] one time, the 13th PLU is loaded. The LCD shows 13 and its unit price.

2. Press **PLU** key and the Unit Price starts flashing.

3. Input the new price using the white number keys.

4. Press **PLU** to save the setting.

Operation of M+

1. When there is a load on the weighing pan and unit price has been input, Press
    M+ key and after a beep sound, ACC will light up on the LCD, which means
    one data has been recorded.

2. Clear the load on the weighting pan and put another load on the weighing pan.
    Input the unit price and then press **M+** key. After a beep sound, ACC will light
    up on the LCD, which means second data has been recorded.

Note:

●   After each recording, if the load on the weighing pan is not cleared, pressing **M+**
    will result in a long beep and the scale won't be able to record the next one.

●   The stored memory can memorize up to 199 records.

Operation of MR

1. In weighing mode, press **MR** key and the weight column will be cleared. The
    unit price column shows $toTAL$. The total price column shows the total
    number of all memories.   The number of data stored is shown above the "ACC"
    icon.

2. Press **MR** key, the ACC will flash, weight column／unit price column／total
    price column shows the info of first data.

3. And then press **MR**, the ACC will flash, weight column／unit price column／
    total price column shows the info of second data, Press **MR** again to cycle
    through all the stored data.

4. If **C** is pressed, the current stored data will be removed from the memories.

5. When the scale shows total, pressing **C** will clear all the data.

6. Pressing **M+** key to exit the MR mode without clearing the recorded data.