Price Computing Scale – AP User Manual



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5. Zero Point Calibration

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

Remove weight from pan. Wait for the AD value is stable, press step.

6. Calibration by 1/3 of the maximum capacity

XXXXX	The first line shows AD Value, the second line	
2000	shows the weight of 1/3 of the maximum (Unit:	
Pnt 1	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,

key to enter next step.

7. Calibration by 2/3 of the maximum capacity

XXXXX	The first line shows AD Value, the second line	
4000	shows the weight of 2/3 of the maximum (Unit:	
Pnt 2	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 key to enter next step.

8. Calibration by the maximum capacity

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

Put on poise of full capacity of the scale. Wait for the AD value is stable, press 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 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
dΡ	0	No decimal point
dP	0.0	One digit behind decimal point
dΡ	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	0° C to +40° C		
Temperature			
Relative	Less than 85%		
Humidity			
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

17	18 2	19	20 4	100g kg	7	8	9	Off
21 5	22 6	23 7	24 8	M+	4	5	6	On
25 9	26 10	27	28	MR	1	2	3	->0<-
29	30 14	31 15	32 16	PLU	0	00	С	Т

Normal unit price input

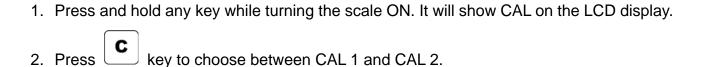
- In weighing mode, pressing the white number keys to input the unit price. Total price will be automatically calculated when there is weight on the scale.
- When there is no weight on the scale, the unit price will be cleared in 3 seconds.
 However, the price will not be cleared when programming price into PLU.

PLU Data setting

Steps in setting PLU no. 1~32

- 1. Press white number key to enter Unit Price.
- 2. Press key, and you should see the "PLU" flash on LCD.
- 3. Select the PLU key to set the PLU number
- 4. Press key to save the setting. The "PLU" will stop flashing on LCD.

Setting and Calibration



- 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 key for switching your selection, and key is used for confirm/complete.

1. AoFF - Sleep mode setting

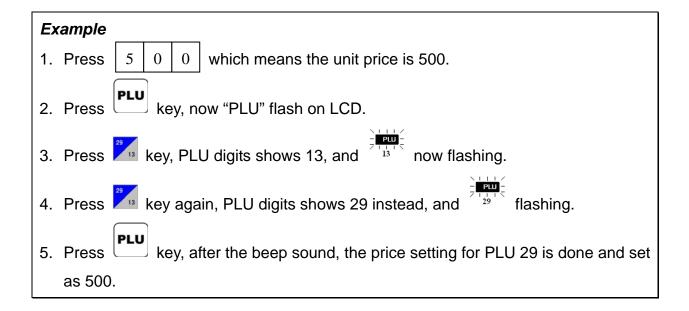
AoFF value	Explanation
0	Shut off sleeping mode.
1	If no operation, enter sleeping mode in 5 minutes.
2	If no operation, enter sleeping mode in 10 minutes.
3	If no operation, enter sleeping mode in 20 minutes.
4	If no operation, enter sleeping mode in 30 minutes.

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	Weighing Mode			
LCD light up or flash	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			
	PLU			
	saved and press to finish.			
1. PLU light up, no flash.	Loading PLU mode			
2. The number below PLU	During PLU reading, please input the PLU number,			
keep flashing.	PLU			
	and press to complete.			
ACC light up, no flash.	ACC accumulation indication			
Numbers in weight column.				
	Several sets of data have been saved. Press to			
	enter circulating data display mode.			
ACC flashing	Show ACC memory mode.			
3	The number above ACC is the set of the data. No			
	weighing function at this moment.			
	MR			
	Press to circulate and display data.			
	M+			
	Press to go back to weighing mode.			
1. ACC light up, no flash.	Total price display mode			
2. The weight column is	The number above ACC is the set of data. No			
empty.	weighing function at this moment.			
3. The unit price column	Total price column is the price summation of all the			
shows Ental	data.			
OHOWO REPARE	C			
	Press key to clear all data.			
	M+			
	Press to return to weighing mode.			



Steps in setting PLU no.0~999

- 1. Press white number key to set unit price.
- 2. Press and you will see "PLU" flash on LCD.
- 3. Press white number key to select PLU number.
- 4. Press 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 one time, the 13th PLU is loaded. The LCD shows 13.
- 2. Press again, the 29th set's PLU memory, LCD shows 29.
- 3. Press to access 1st set's PLU memory, LCD shows 1.

Steps in loading PLU no.0-999

- 1. In weighing mode, press and hold key until double beep sound arise then release key.
- 2. Press the white number keys to input the desired PLU number.
- 3. Press key again, and the reference PLU is loaded.

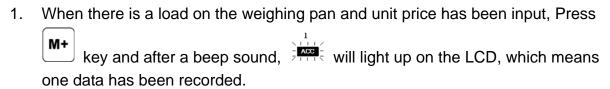
Modify PLU

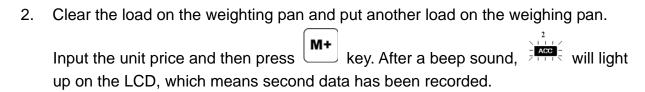
- 1. First load the PLU you want to modify. Press key and you will see the Unit Price flashing.
- 2. Press white number keys to set unit price.
- 3. Press to save the setting. The Unit Price stops flashing, and the price is updated.

Example

- 1. Press one time, the 13th PLU is loaded. The LCD shows 13 and its unit price.
- 2. Press key and the Unit Price starts flashing.
- 3. Input the new price using the white number keys.
- 4. Press to save the setting.

Operation of M+





Note:

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

M+

The stored memory can memorize up to 199 records.

Operation of MR

- 1. In weighing mode, press key and the weight column will be cleared. The unit price column shows LoL L. The total price column shows the total number of all memories. The number of data stored is shown above the "ACC" icon.
- 2. Press key, the will flash, weight column/unit price column/total price column shows the info of first data.
- 3. And then press will flash, weight column unit price column total price column shows the info of second data, Press again to cycle through all the stored data.
- 4. If is pressed, the current stored data will be removed from the memories.
- 5. When the scale shows total, pressing will clear all the data.
- 6. Pressing key to exit the MR mode without clearing the recorded data.