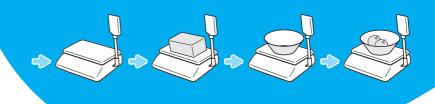


Owner's Manual

AP Series

Price Computing Scale



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PRECAUTIONS



Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.



Do not disassemble the scale.

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.

Do not overload beyond the maximum weight limit.



Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.



Do not pull the plug by its cord when unplugging.

Damaged cord could cause electric shock or fire.



To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.

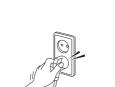


To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.



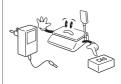
Avoid placing the scale near heater or in direct sunlight.

Insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.

Incorrect adapter could damage the scale.



PRECAUTIONS



The socket-outlet shall be installed near the equipment and shall be easily accessible.

For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.



Grab on the bottom of the scale when moving.







Keep the scale away from other electromagnetic enerating devices.

This may interfere with accurate reading.



Place the scale on firm and temperature consistent environment.



By adjusting 4 comers of the scale, set the scale even using the built in scale leveling indicator.





PREFACE & INSTALLATIONS





Thank you for the purchasing of our CAS AP Series.

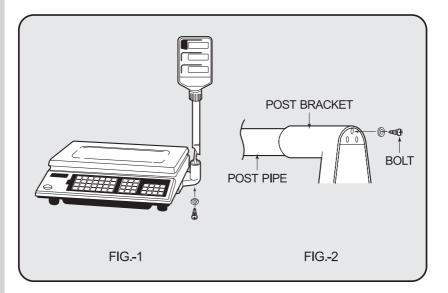
This series have been designed with CAS reliability, under rigid quality control and with outstanding performances. Your speciality departments can enjoy with these high quality reliable CAS products.

We believe that your needs will be satisfied and you will have proper reliability in variable weight.

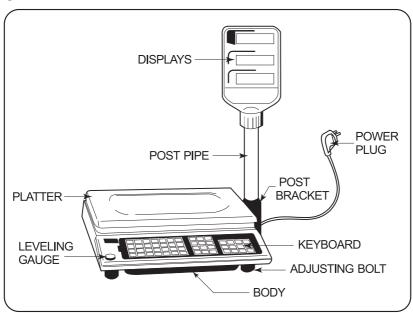
This manual will help you with proper operations and care of the AP series. Please keep it handy for the future references.

INSTALLATIONS

Put a post pipe into a post bracket as Fig. -1 Screw the post bracket and the post pipe as Fig. -2



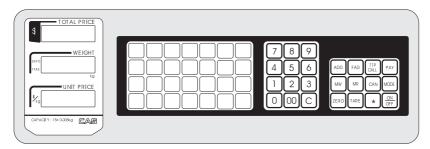
OVERALL VIEW





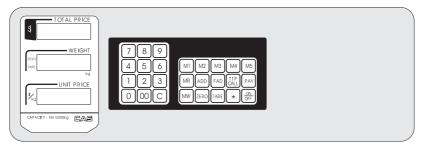
DISPLAY & KEYBOARD

1. AP-EX

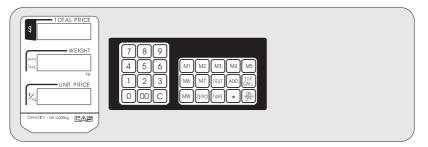


2. AP-MX

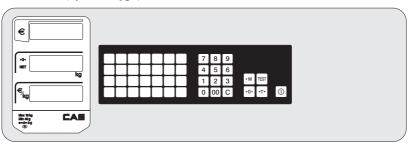




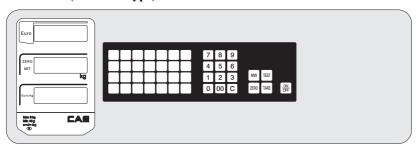
3. AP-M



4-1. AP-EC (Symbol Type)



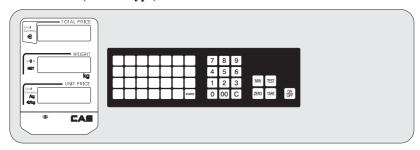
4-2. AP-EC (Standard Type)



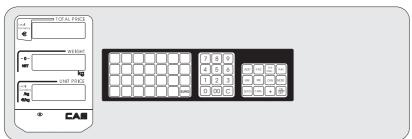


OPTIONAL DISPLAY & KEYBOARD

5-1. AP-Euro (AP-EC Type)

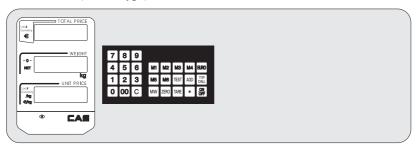


5-2. AP-Euro (AP-EX Type)



5-3. AP-Euro (AP-M Type)





■ Table 1: Function Keys

KEY	FUNCTIONS
0~9	Used to enter all the numeric data.
00	Used to enter a double zeros.
C	Used to clear all the numerics on the unit price display. Used to clear sum total price. Used to clear all the daily total prices. Used to move to next byte when inputting ASCII code.
ZERO or -O-	Used to correct the zero point. Used to move to previous byte when inputting ASCII code.
TARE or T	Used to enter a tare weight. Used to delete a tare weight. Used to move to next printing ticket format setting mode when inputting ASCII code.

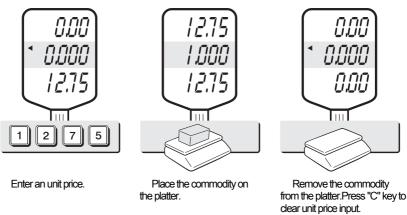
KEY	FUNCTIONS
ON OFF Or	Turns on and off the displays.
FAD	Used to add up a fixed price item.(non weighed)
ADD	Used to add up a weighed item.
PAY	Used to calculate a change.
CAN	Used to cancel a prior accumulation.
M1 ~ M7	Direct PLU(Price Look Up) keys.
TEST	Used to check the all displays.
TTP	Used to call a total price of add up transactions.
MODE	Used to convert the modes. A default is weight mode after the power on.
MR	Used to call an indirect PLU(Price Look Up) in memory.
MW or -M	Used to save a PLU(Price Look Up) to memory.
*	It's not a function key unless it's set as Print function key.
	Direct PLU keys.
EURO	Used to set Euro to local currency, and vice versa.







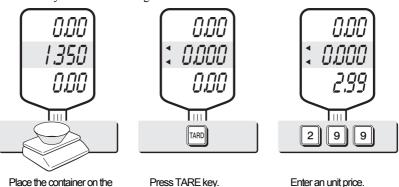
- Whenever you turn on the scale "dAtE" will be shown on the display after counting up to "0.000". This indicates that you are in "DATE setting mode".
- If you want to go to "simple weighing mode" simply press "TARE" key twice. It will get to the "simple weighing mode" through "Barcode setting mode".



2. Weighing with Tare

platter.

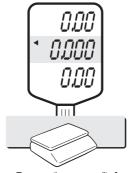
- The tare is the weight of a container being used for a commodity.
- The tare key subtracts the weight of the container.



Press TARE key.

Enter an unit price.







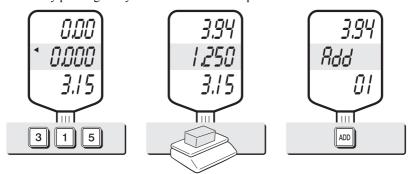
Place the commodity on the platter.

Remove the commodity from the platter. Press "C" key to clear previous transaction.

NOTE: To remove TARE function press "TARE" key again after removing the container from the platter. Automatic tare clearing function may not be applied to all of AP series.

3. Adding up transactions for weighed commodities (EX, MX, M)

- \blacksquare This add-up function is useful for tansaction to purchase several commodities.
- You can check total price by pressing TTP CALL key. And delete total price data by pressing C key after transaction is completed.

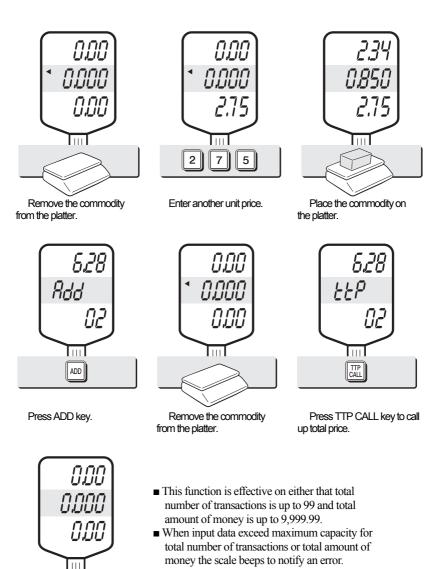


Enter an unit price.

Place the commodity on the platter.

Press ADD key.





Press C key to clear the sum of transaction.

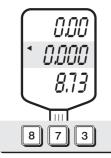
С

4. Adding up transactions for non-weighed (Fixed price)commodity (EX, MX)

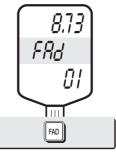
This is a function to add up several transactions for non-weighed commodity, using "FAD(Fixed price Added)" key.

■ User should keep the platter empty when he/she tries this function in the beginning.











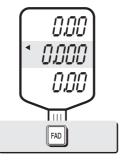
Enter a price.

Press FAD key.

Enter a next price.



Press FAD key. Total amount will be shown on total price display.



Press FAD key again to exit.



- User can call up previous total price simply by pressing "TTP CALL" key.
- User can clear the sum of transactions simply by pressing "C" key.
- This function is effective on either that total number of transactions is up to 99 or total amount of money is up to 9,999.99.
- When input data exceed maximum capacity for above total number of transactions or total amount of money the scale beeps to notify an error.

5. Calling up & clearing up previous total price

■ Calling up total price

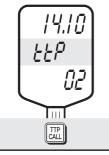




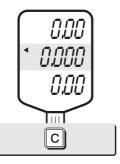
Press TTP CALL key.

Press TTP CALL key again to exit.

■ Clearing up total price data







Press C key. This function will clear up total price data permenatly.

6. Making Payment (EX, MX)

This is the function to make payment or change on the scale. The payment function is effective only if the amount customer pays exceeds the amount of total price.



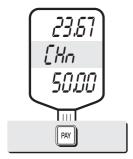
Press TTP CALL key.



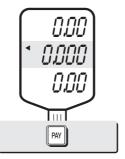
Press PAY key, assuming total amount is 26.33



Enter a customer's payment.
The payment will be displayed on the unit price display.
Press TTP CALL key.



Press PAY key again to show the amount of change.



Press PAY key to exit.





This is the function to save PLUs to memory in the scale. PLU means "Price Look-Up" which includes individual unit price information.

- AP series have different PLU memory capacity, depending on the product model.
- There are two different kind of PLUs, direct and indirect PLU.
 - Direct PLU: User can call up PLU directly by pressing preset keys, for example, any key of M1~M7 or any key of 28 keyboard.
 - Indirect PLU: User can call up any one of PLUs with designated numbers by pressing the designated numeric key(s), for example, "4" and "5" numeric keys for PLU # 45.

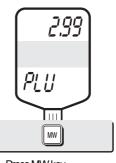
Table 2: Maximum PLUs Memory Capacity

Product Model		Direct PLUs	Indirect PLUs
AP-EX		Up to 28 PLUs	Up to 200 PLUs
AP-MX		Up to 5 PLUs	Up to 200 PLUs
AP-M		Up to 7 PLUs	Up to 200 PLUs
AP-EC		Up to 28 PLUs	
AP	EC type	Up to 27 PLUs	
(EURO)	EX type	Up to 27 PLUs	Up to 200 PLUs
Version M type		Up to 6 PLUs	

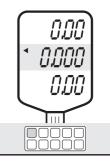
A) Direct PLUs



Enter an unit price.



Press MW key.

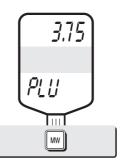


Press one of direct PLU keys. The display automatically goes to simple weighing mode. For sure, user can use "PLU call-up function" described on page 22.

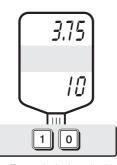
B) Indirect PLUs



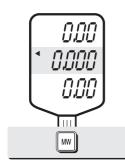
Enter an unit price.



Press MW key.



Enter a desired number(s) to store a PLU(s) at a specific address(es). You can select any number within the indirect PLU memory capacity.



Press MW key. For sure, user can call up the PLU saved. Please refer to "PLU call-up function" on page 22.

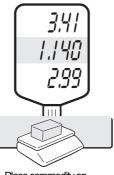
8. Calling up a PLU



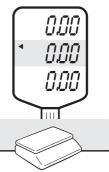
A) Direct PLUs



Press an appropriate direct PLU key you wish to have.

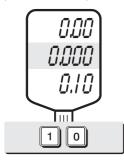


Place commodity on the platter.



Remove the commodity from the platter, then press "C" key to go back to the weighing mode.

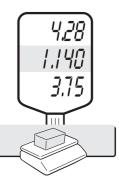
B) Indirect PLU(EX, MX)



Press numeric keys. For example, PLU# 10.

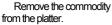


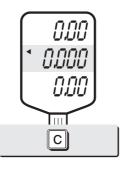
Press "MR" key to call up a indirect PLU you wish to have.



Place commodity on the platter.







Press "C" key to go back to the weighing mode.

*When user is in use of "Unit Price Clear" function it's automatically cleared.



NOTE: Please do not consider of decimal point on the unit price display at when you input a specific PLU number.

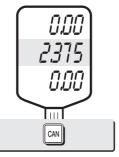
9. Canceling daily total transactions (EX)

The "Cancel" function is to delete previous unwanted transaction from the daily total data before executing "ADD" function. Please note that user does not delete the transaction from the daily total data after executing "ADD" function. This function works only following cases;

 $1. Before \ removing \ the \ item \ from \ the \ platter \ after \ automatic \ "DAILY \ TOTAL" \ saved.$



The display shows the unwanted transaction.



Press "CAN" key to permanently delete previous unwanted transaction from the diary total data.

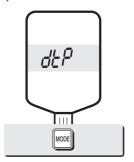
10. Displaying Daily total sales (EX)



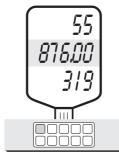
This function shows the daily total sales for in dividual PLU or daily total sales record.

■ The total sales amount and the number of transaction are displayed up to 99,999,999.99 and 9,999 respectively.

A) Total sales for direct PLU



Press "Mode" key.



The total price display shows daily total amount of sales ≥ 1,000.00.

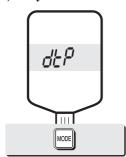
The weight display shows daily total amount of sales ≤ 999.99.

The unit price display shows daily total number of transactions up to 9.999.

Press one of direct PLU keys. Display says that total amount of sales is 55,876.00, and total number of transactions is 319 on the scale today.

Press "Mode" key to exit. Be careful of pressing "C" key to clear current transaction permanently.

B) Daily total sales



Press "Mode" key.



The total price display shows daily total amount of sales ≥1,000.00.

The weight display shows daily total amount of sales up to ≤ 999.99.

The unit price display shows daily total number of transactions up to 9,999.



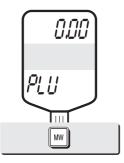
Press "TTP CALL" key. The display says that the daily total amount of sales is 11,455,876.00, and total number of transactions is 3,319 on the scale today.

Press "Mode" key to exit. Be careful of pressing "C" key to clear current transaction permanently.

1. Saving Euro rate (Option)

This is function to input Euro rate on your scale. Before start user should check the value in the "TOTAL PRICE" display is "0.00".





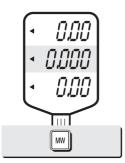
Press the MW key.



Press the EURO key. If you have entered the euro rate before, you will see the previous euro rate in the total price display.



Enter appropriate euro rate. For example, enter € 1= 6.55875(local currency). To move decimal point press "00" key five times in the total price display.



Press the MW key to save it, then you will go to normal mode.

2. Switching Currency

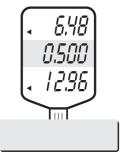
A) From local currency to Euro currency



Press the EURO key in the normal mode.



You will go to euro mode.



You will see Euro currency after 2 seconds. Please make sure Euro lamp is on.

NOTE: $\[\in 6.55875 \]$ $\[\in 6.56 \]$ in this example. $\[\in 6.55475 \]$ $\[\in 6.55 \]$ in this example.

3. Saving direct PLUs' name

This is to input the name of direct PLUs users wish to have on the scale. Maximum direct PLU memory is varied on product models.

Table 3: Direct PLUs Memory Capacity

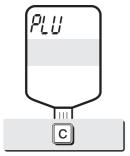
Product Model		Maximum Direct PLUs		
AP-EX		Up to 28 PLUs		
AP-MX		Up to 5 PLUs		
AP-M		Up to 7 PLUs		
AP-EC		Up to 28 PLUs		
	EC type	Up to 27 PLUs		
AP(EURO) Version EX type		Up to 27 PLUs		
M type		Up to 6 PLUs		



PLU name should be input by using "Table of ASCII Code". Please refer to "Table of ASCII Code" on page 39.



A) Inputting PLU Name



Please plug in(not just turn on). The scale display starts counting from "99999" to "00000". Before counting down up to "00000", press and hold "C" key to get into the PLU initial Setting Mode.



Press any direct PLU key you wish to have PLU name, using 28 keys or M1~M7 keys.

*"01" on the UNIT PRICE DISPLAY indicates the byte (letter's location) and user can input up to 8 bytes as PLU name.



Press appropriate keys you wish to input in accordance to "ASCII Code". For example, inputs "BANANA" as a PLU name.

- For inputting alphabet please refer to the alphabetical location on keyboard on page 39.
- Whenever you wish to move to next byte after inputting ASCII codes please press "C" key, then you can move to next byte and input next ASCII codes.
- If user wants to move to previous byte please press "ZERO" key.

 Press "C" key until 8 byte then another "PLU" setting mode.

 User may try ~ steps to input other PLU name information on the scale.
- Once completed press "C" key to go to "Date" setting mode, then press "TARE" key twice to exit to simple weighing mode.

4. Calling up a PLU

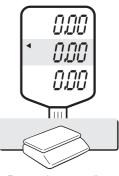
A) Direct PLUs



Press an appropriate direct PLU key you wish to have.



Place commodity on the platter.



Remove the commodity from the platter, then press "C" key to go back to the weighing mode.

*However, when "Unit Price Auto clear "function is already set user dose not need to press "C" key to go back to the weighing mode.

5. Setting-up printing ticket (receipt) format

This part explains how to set up the printing ticket format when user uses the printer with the scale. The information will be printed on the ticket as configured.

- User should put in the date each time whenever turning on the scale.
- Otherwise, user may go to simple weighing mode by pressing "TARE" key twice.
- Whenever you move to next byte please press "C" key.
- If user wants to move to previous byte please press"ZERO" key.



A) Nomal Data Mode

a. Setting "Date"

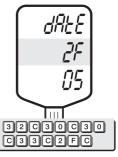


Please turn on the power. The scale display starts counting from "99999" to "00000". Then, it automatically gets into the Date Setting Mode.

ON OFF



Using keys you can input date information. The "Date" information will be on the ticket printed. Date information may be input only by ASCII code, shown in Table 5 on 37 page.



Press keys as above to input, for example, "2003/".



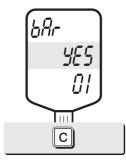
You finished inputting "09/05"

*: Please refer to "Alphabet key location" on 37 page.

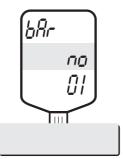
■ You can press either "C" key until final byte is completed or simply "TARE" key to go to barcode setting mode at the beginning.

b.Setting "Barcode"

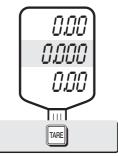
This setting is to select printing barcode on ticket or not.



In barcode setting mode press "C" key to select "Yes" or "No" for barcode setting.



Selecting "Yes" will print barcode or selecting "No" will not print barcode on the ticket.



Press "TARE" key to exit to simple weighing mode.

B) General Information Mode

This is to set the printing ticket format user wish to have when they use the printer with the scale. User can input information in the scale, such as store name, telephone number, unit (currency), gate number (department number), or scale number.

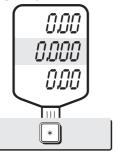
Information should be input only by codes on "Table 5: ASCII Code".

- Whenever user want to move to next byte please press "C" key.
- If user wants to move to previous byte please press "ZERO" key.
- If user wants to directly move to next printing ticket format setting, please press "TARE" key.



a. Inputting Store Name

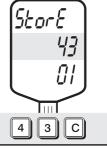




Please plug in (not just turn on), then scale display starts counting from "99999" to "00000". Before finishing counting to "00000", press and hold "**" key to get into the "Store Name" at "Printed" Ticket Format Setting Mode".



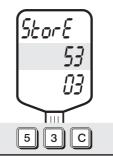
Store name input will be displayed on the ticket when user prints out. "01" on the "UNIT PRICE" display indicat es byte and user can input maximum 24 bytes in Store Name Setting mode.



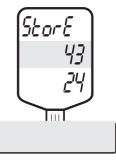
Input appropriate keys you wish in accordance to "ASCII Characters Table". For example, if you inputs "CAS" as the store name he/she shouldpress "4","3" for "C" and "C" key.



Then, press "4", "1" for "A", and "C" key to move to next byte.



Press "5", "3" for "S", and "C" key.



User can input maximum 24 bytes if he/she needs.

■ User may follow the same process as done in "Store Name" setting step for other ticket format setting.

Table 4: Printing Ticket Format Step

Step	Printing Ticket Format Setting	Max. bytes	Remark
1	Store Name	24 bytes	If user inputs bytes (letters) less than
2	Telephone	16 bytes	maximum bytes for each setting it is better to input last character into the final byte, 00", to indicate it is done. Then, press TARE" key to simply
3	Date	12 bytes	move to next setting.
4	Unit(Currency)	8 bytes	User should input full 6 bytes for Gate Number". Otherwise, the
5	Gate Number (Department Number)	6 bytes	barcode will not be properly printed on the ticket.
6	Scale Number	6 bytes	



6. Using Printer

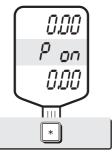
A) Setting-up printer

- a. Connect the printer cable to the RS 232 connector.
- b. Make sure there is proper ticket paper on the printer.
- c. Turn on the printer.



B) Printing ticket (receipt) for transaction a. One item





To make printer workable with the scale press "*" key on scale keyboard. The disp lay will show "P on" shortly, then go to weighing mode. Press "*" again to make prin ter unworkable with the scale if you want.

Please call your CAS dealer in case of no "" key in your scale. You need to set one of PLU keys as "print key".



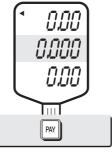
Input a specific unit price of commodity, for example, 1.99 and place the commodity on the platter, or vice versa. Then, it automatically prints only part of ticket for this transaction.



Press "Pay" key to make payment transaction and input the amount received from customer, for example, 20.00



Press "PAY" key again to show the amount of change, then it automatically print out ticket for current

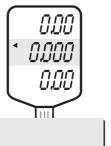


Press "PAY" key to exit from current transaction, and remove commodity from the platter.



A sample ticket (receipt) for transaction.

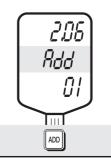
b. More than two items



To make transactions more than one item you can simply use "ADD" key on the scale for each commodity.



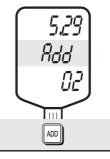
Input a unit price of commo dity, for example, 2.99 and place the commodity on the platter, or vice versa.



Then, press "ADD" key to continue other transactions. Then remove the commodity from the platter.



Input another unit price of commodity, for example, 3.99 and place the commodity on the platter.



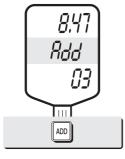
Then, press "ADD" key to continue other transactions. Then remove it from the platter.



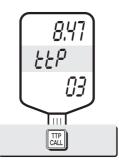
Then, Input other unit price of commodity, for example, 0.99 and place the commo dity on the platter.







Press "ADD" key to continue other transactions. Then remove it from the platter.



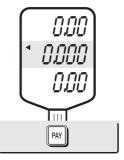
To get total price press "TTP CALL" key.



And press "PAY" key to make payment transaction, and input the amount received from customer, for example, 10.00



IPress "PAY" key again to make change, and the total price display will show the amount of change. It also will print out the full ticket(receipt) for these transactions.



Press "PAY" key to go to the general weighing mode.

	CAS			
TEL. DATE. GATE. SCALE. CUSTOMER (Kg)	2000 8 2	2225-3500 -18-09		
No_PLU 0.690 No_PLU 0.810 No_PLU 3.210		2.06 3.23 3.18		
Total (Count Payment (Change (€)	3 10.00 1.53		
Thank you for purchasing				

Sample ticket as above.

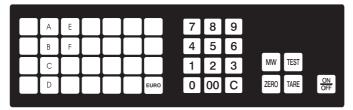
ASCII CODE

Table 5: ASCII Code

HIGH ORDER LOW ORDER	2	3	4	5	6	7	8	9
0	SP	0	@	Р		р		
1	!	1	Α	Q	а	q		
2	,	2	В	R	b	r		
3	#	3	С	S	С	S		
4	\$	4	D	Т	d	t		
5	%	5	Е	U	е	u		
6	&	6	F	V	f	٧		
7	,	7	G	W	g	w		
8	(8	Н	Χ	h	Х		
9)	9	ı	Υ	i	у		
Α	*	:	J	Z	j	Z		
В	+	;	K	[k			
С	,	<	L	¥	I			
D	1	=	М]	m			
E	•	^	N	۸	n			
F	/	?	0	_	0			



■ Alphabet A ~ F keys for AP-EX, EC (Euro)



■ Alphabet $A \sim F$ keys for AP-MX, M



ERROR MESSAGES

Table 6: Error Messages



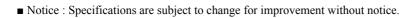
DISPLAY	MEANINGS	SOLUTIONS
Err 1 or Help 1	An error of the initial zero range	Set the platter empty
Err 4 or Help 4	An overflow of the unit price multiplication	Press C key
Em6	An overflow from ADD key	Press C key
Help 3	An overflow from FAD (FixAdd) key	Press C key
Err8	An overflow of the transaction count	Press C key
Err 9	An overflow from daily total transaction	Press C key
Err 10	A failure of the analog module	Please Contact CAS dealer
Err 11	A failure of the digital module	Please Contact CAS dealer
Err 12	Condition codes brokenc	Please Contact CAS dealer for span calibration
Err 13	Key codes broken	Call your CAS dealer for span calibration

■ Notice : Please refer to following error messages for detail.

SPECIFICATIONS

Table 7: Specifications

MODEL		AP-1		
CAPACITY (Dual)	3 x 0.001 kg (6 x 0.002 lb)	6 x 0.002 kg (15 x 0.005 lb)	15 x 0.005 kg (30 x 0.01 lb)	
CAPACITI (Duai)	6 x 0.002 kg (15 x 0.005 lb)	15 0.005 kg (30 0.01 lb)	30 x 0.01 kg (60 x 0.02 lb)	
CAPACITY (Single)	6 x 0.002 kg (15 x 0.005 lb)	15 x 0.005 kg (15 x 0.005 lb)	30 x 0.001 kg (60 x 0.02 lb)	
DISPLAYS: TOTAL PRICE WEIGHT UNIT PRICE	7 DIGITS(AP-EX, MX) or 6 DIGITS(AP-EX, MX, EC, M) 5 DIGITS 6 DIGITS			
DISPLAY DESIGNATORS	ZERO, TARE			
MAXIMUM TARE	-6.000kg -9.995kg -9.990kg			
TEMPERATURE RANGE		- 10°C ~ + 40°C		
POWER SOURCE	AC 110\	/ / 220V / 240V, 50H	z / 60Hz	
POWER CONSUMPTION	APPROX. 10W			
PLATTER SIZE (mm)	340(W) x 215(D)			
PRODUCT SIZE (mm)	435(W) x 325(D) x 495(H)			





AP-1 SERIES COMPARISON TABLE

Table 8: AP-1 Series Comparison



Functions	AP-EX	AP-MX	AP-M	AP-EC
Simple Weighing	•	•	•	•
Weighing with Tare	•	•	•	•
Adding up Transactions for weighed commodities	•	•	•	
Adding up Transactions for non-weighed (Fixed price)commodities	•	•		
Calling up & clearing previous total prices	•	•	•	
Making Payment	•	•		
Saving Direct PLUs into preset keys (Max.number of PLUs memory)	(28)	• (5)	· (7)	(28)
Saving Indirect PLUs (Max.number of PLUs memory)	(200)	(200)		
Calling up a PLU (memory function)	DIRECT INDIRECT	DIRECT INDIRECT	DIRECT	DIRECT
Canceling Daily Total transactions	•			
Displaying Daily Total Sales	•			

MEMO



MEMO



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