

# CAS ER Series Computing Scale Instruction Manual

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## CAS ER Series Computing Scale Instruction Manual



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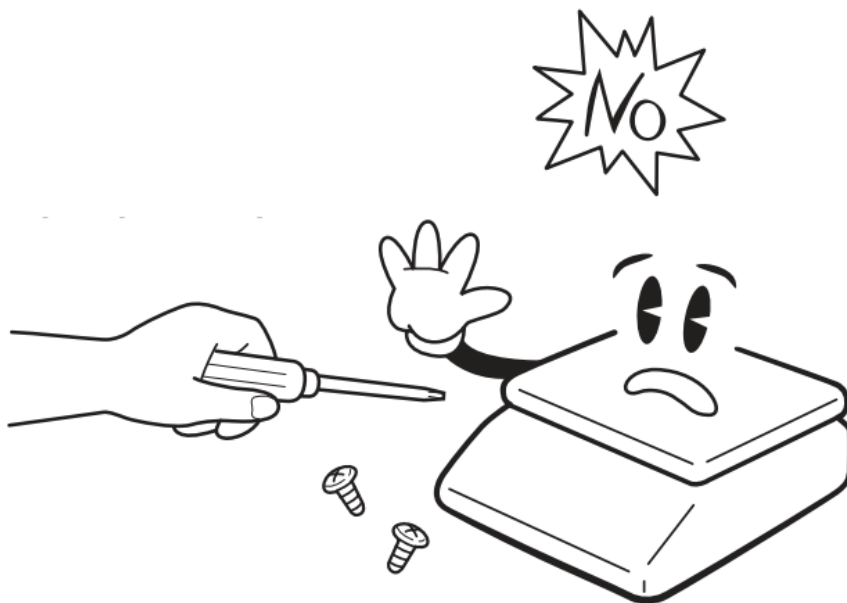
## PRECAUTIONS

### Warning

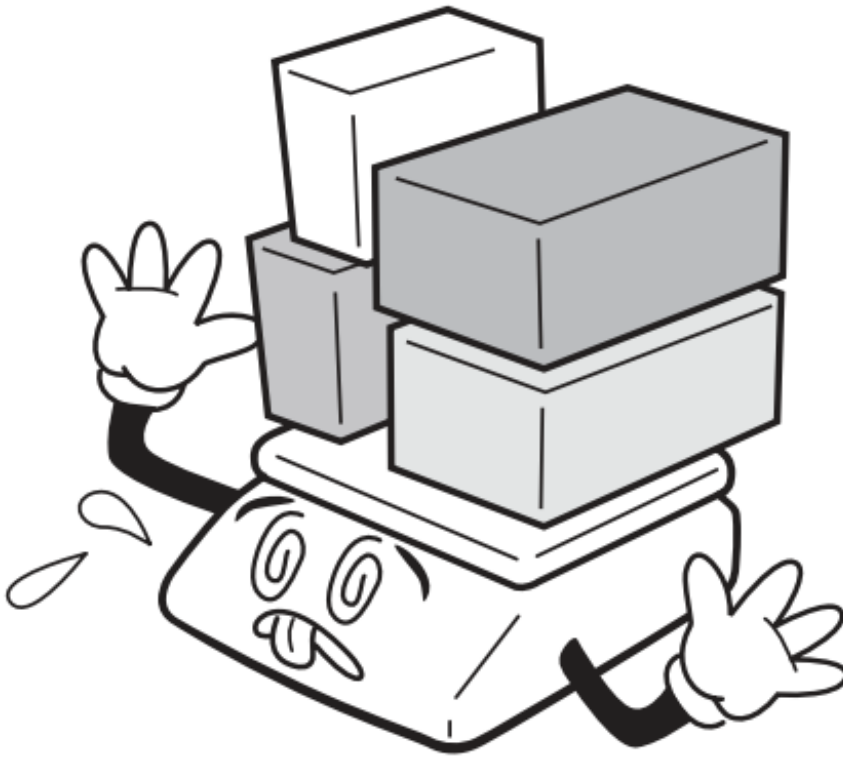
Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction

**Do not disassemble the scale.**

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



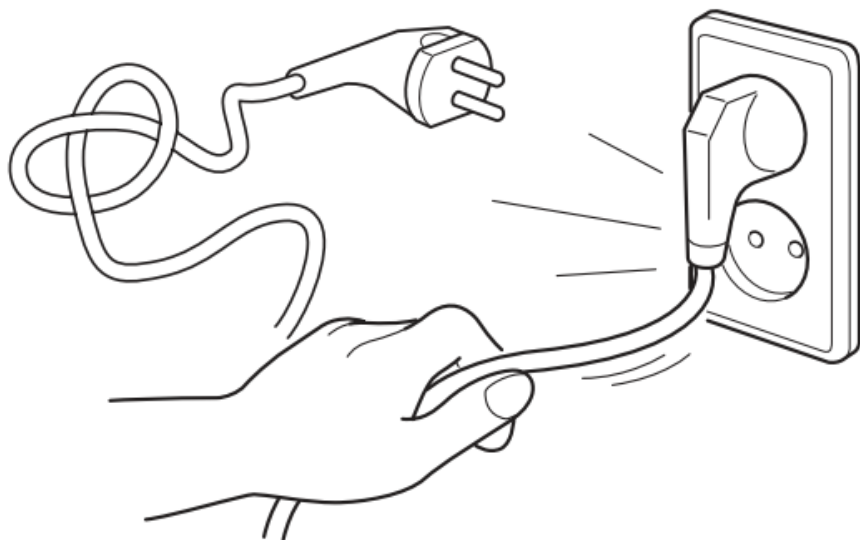
**Do not overload beyond the maximum weight limit.**



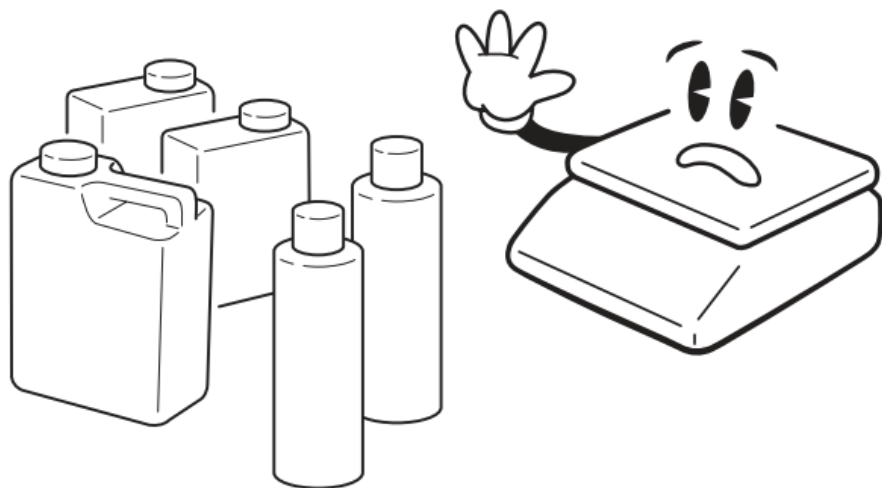
**Scale must be grounded to minimize electricity static**



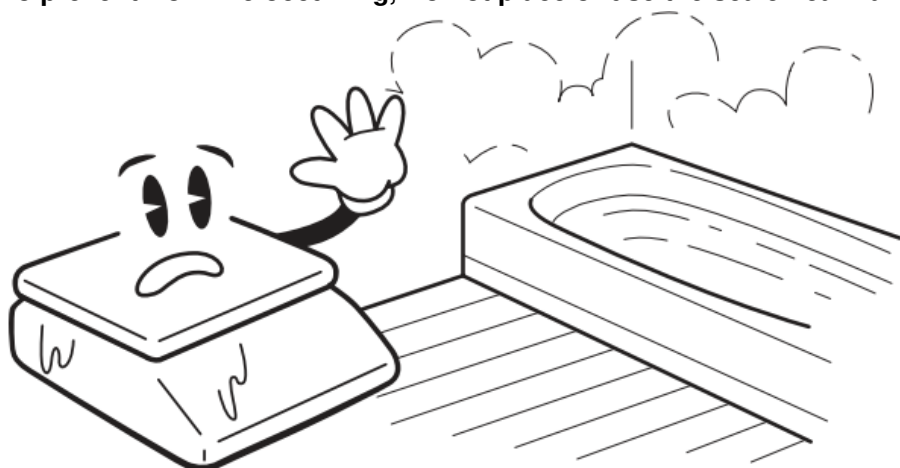
**Do not pull the plug by its cord when unplugging.**  
Damaged cord could cause electric shock or fire



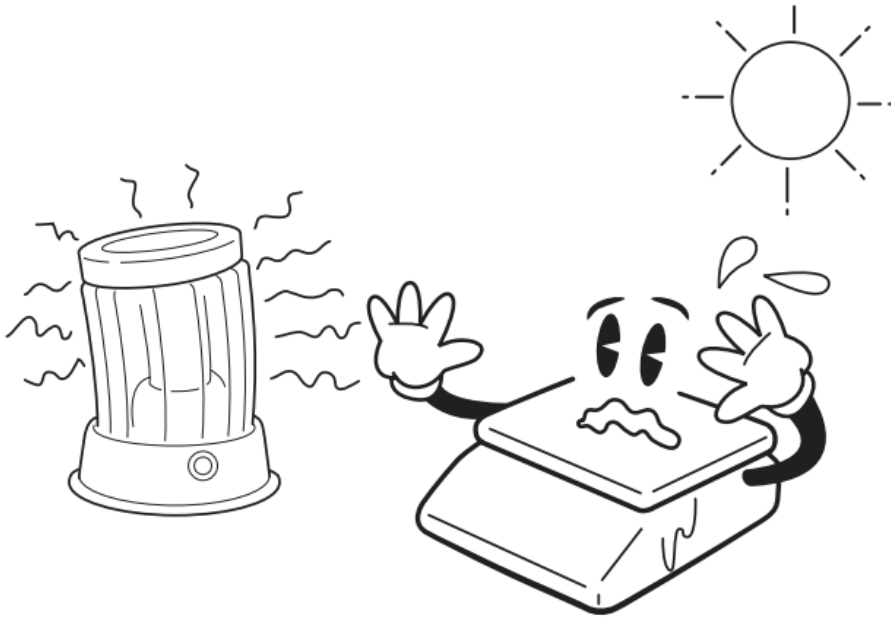
**To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.**



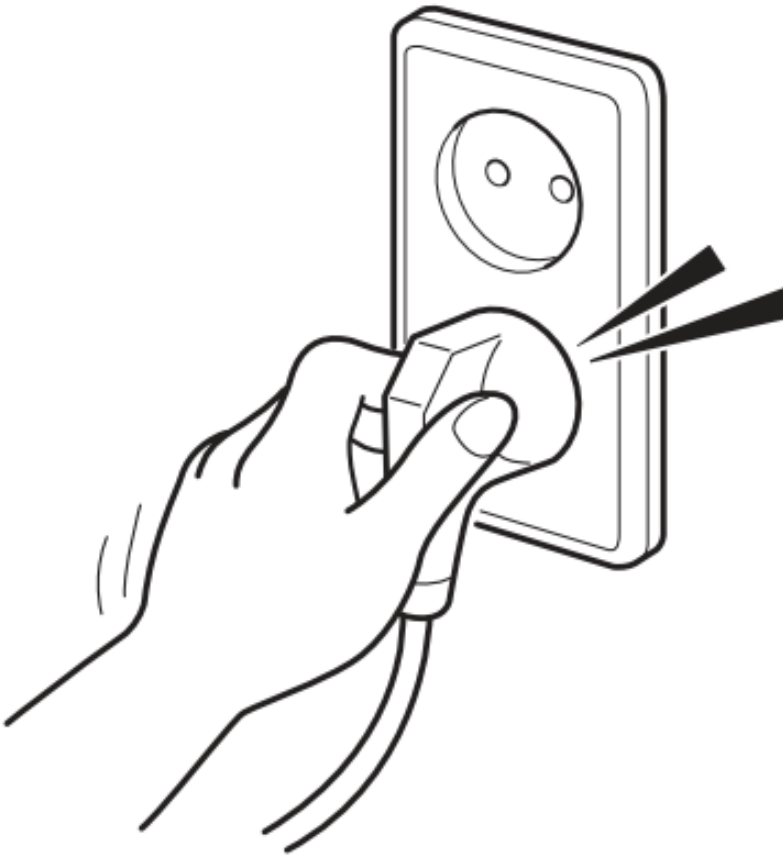
**To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.**



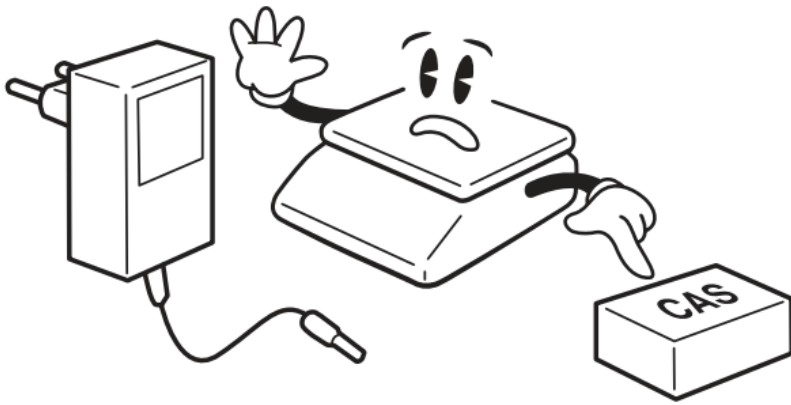
**Avoid placing the scale near heater or in direct sunlight**



**Insert plug firmly to wall outlet to prevent electric shock.**



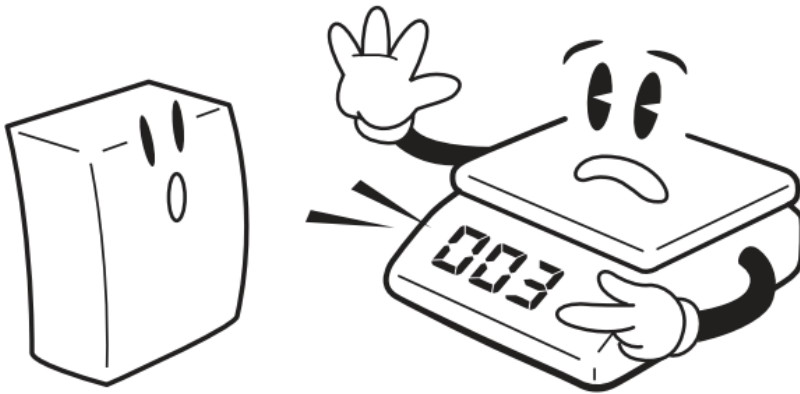
**Use proper Adapter.**



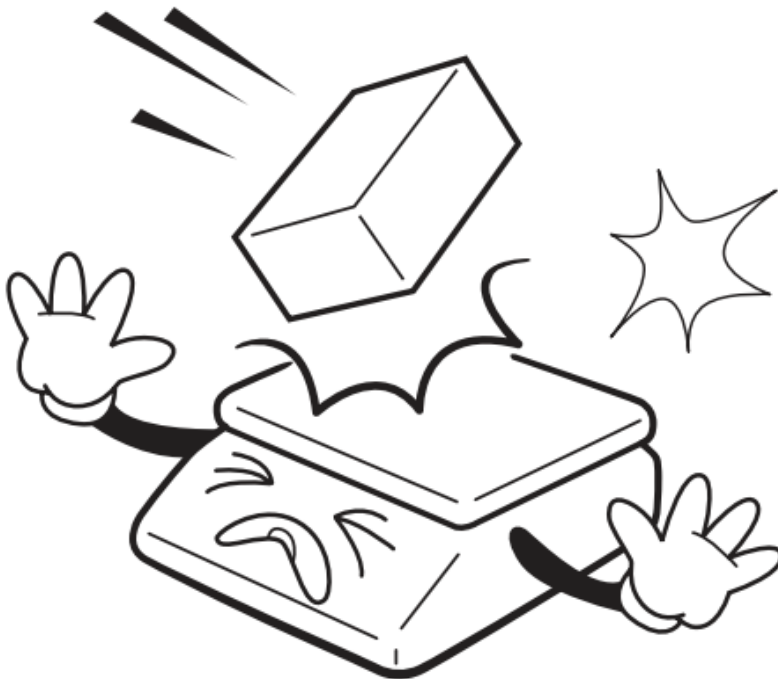
### Attention

Make sure to plug your scal into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

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



**Avoid sudden shock to the scale.**



**Grab on the bottom of the scale when moving**



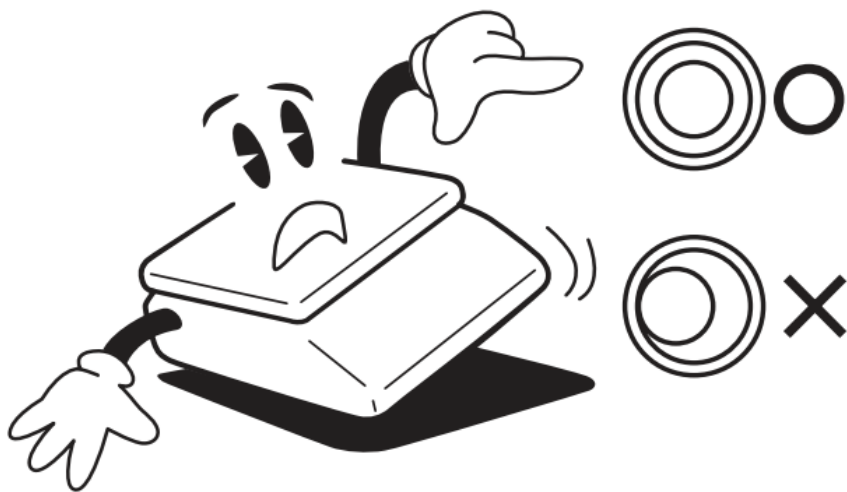
**Keep the scale away from other electromagnetic enerating devices.**  
This may interfere with accurate reading.



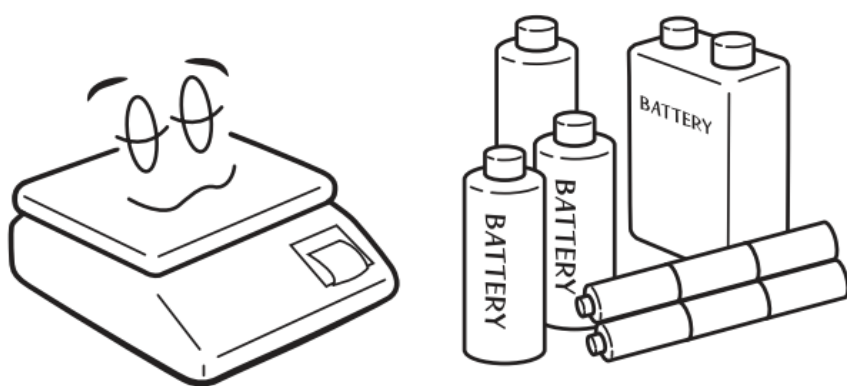
**This may interfere with accurate reading.**



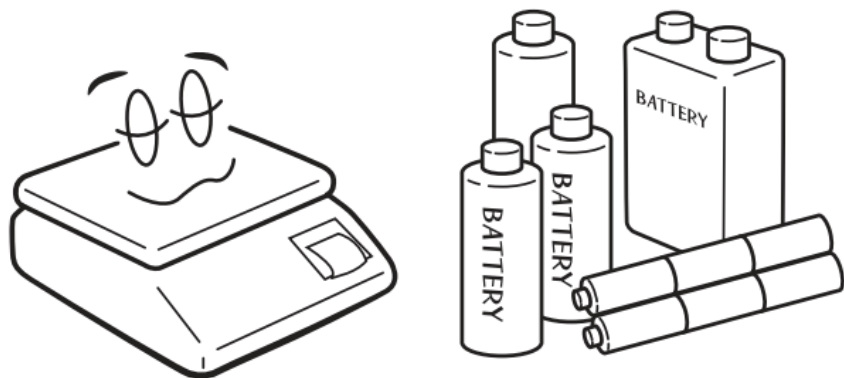
**By adjusting 4 comers of the scale, set the scale even using the builtin scale leveling indicator.**



**Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.**



**Risk of explosion if battery is replaced by an incorrect type, Dispose of used batteries according to the instruction.**



Correct type of battery

## **PREFACE**

Thank you for purchasing your CAS ER JR scale.

CAS scales are designed and produced under rigid quality control to deliver outstanding performance, reliability and long life.

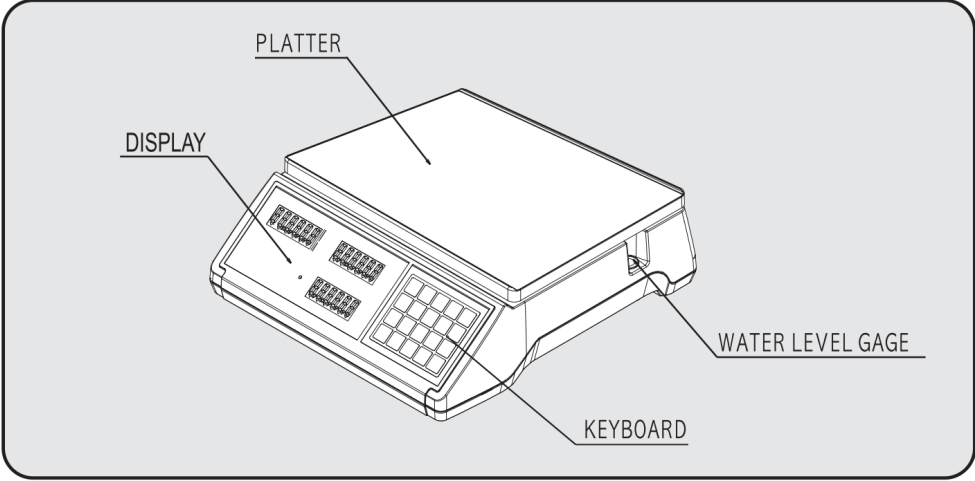
This manual will help you with the proper operation and care of your new CAS ER JR .

Please review the ER JR scale manual before you use the scale and keep it handy for future reference.

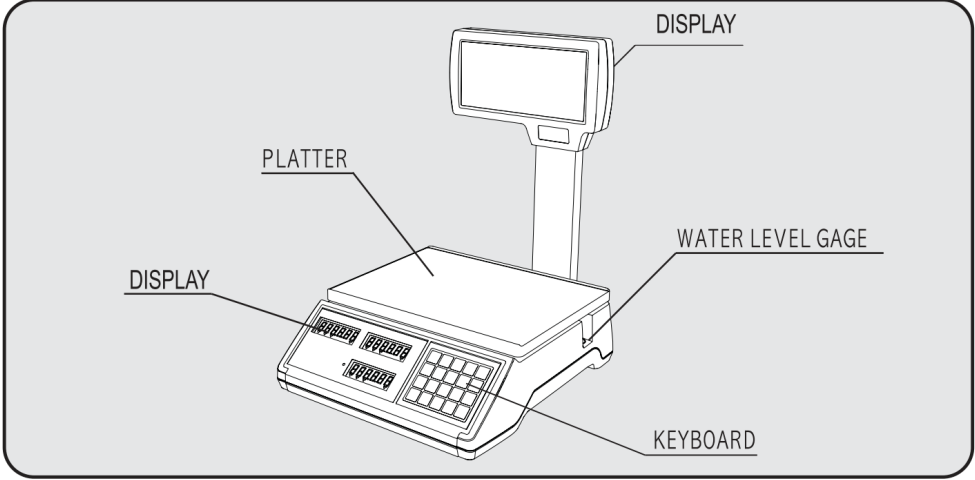
## **OVERALL VIEW**



STANDARD TYPE

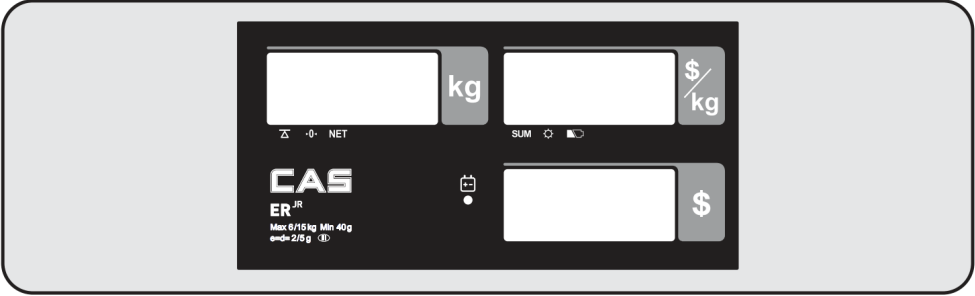


POLE TYPE



DISPLAY & KEYBOARD

Front Display









Rear Display



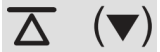

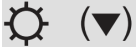


Rear Display



**Table : Key Functions**

KEYS	FUNCTIONS
0 ~ 9	Numbers import
M1 ~ M4	Direct PLU keys
	Function key, PLU restore, Push more than 2 second when using PLU Restore mode or finalize sales transaction
	To make several sales transaction by adding up
	To clear data
	To set zero
	To set up or clear tare value
	To turn on/off the scale or backlight

**Table : Symbols on Display**

SYMBOL	DESCRIPTION
 (▼)	Weight steady
 (▼)	To adjust zero
<b>NET</b> (▼)	Tare on
 (▼)	Backlight on
 (▼)	Low power warning
<b>SUM</b> (▼)	Used to call a total price of add up transactions
	Charge status

## OPERATIONS

### Programming Mode

#### Chapter 1. Basic Operation

- **a.** To turn on/off scale
- **b.** To turn on/off backlight
- **c.** Zero function
- **d.** Tare function
  - One time tare
  - Successive tare

#### Chapter 2. PLU Saving & Calling-up

- a.** Saving unit price on PLU
- b.** Saving PLU name (option)
- c.** Calling up PLU

#### Chapter 3. User' s Set-up Mode

- a.** Auto power – off
- b.** Backlight ON/OFF function
- c.** Brightness function
- d.** Low battery backlight auto off function
- e.** Selecting the printer

#### Chapter 4. Formatting Printing Receipt

- a.** Using Printer
- b.** Receipt header setting
- c.** Receipt currency (unit) setting

d. Receipt date setting

## Sales mode

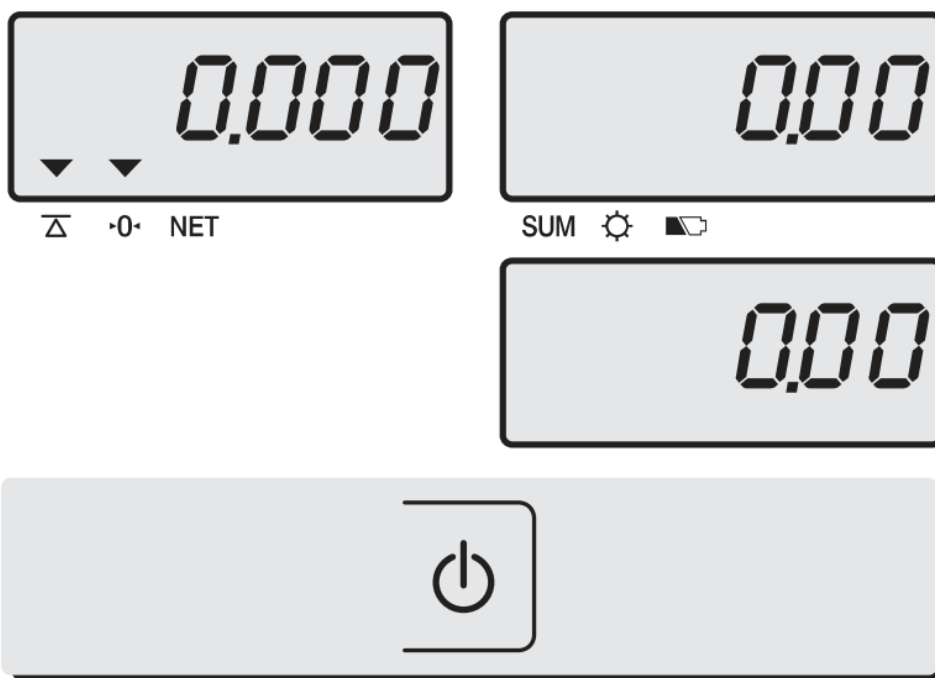
### Chapter 5. Sales transaction

- a. Input the unit price through the number key
- b. Input the unit price through calling up the PLU
- c. Add up the total amount
- d. Inspect or clear the total amount

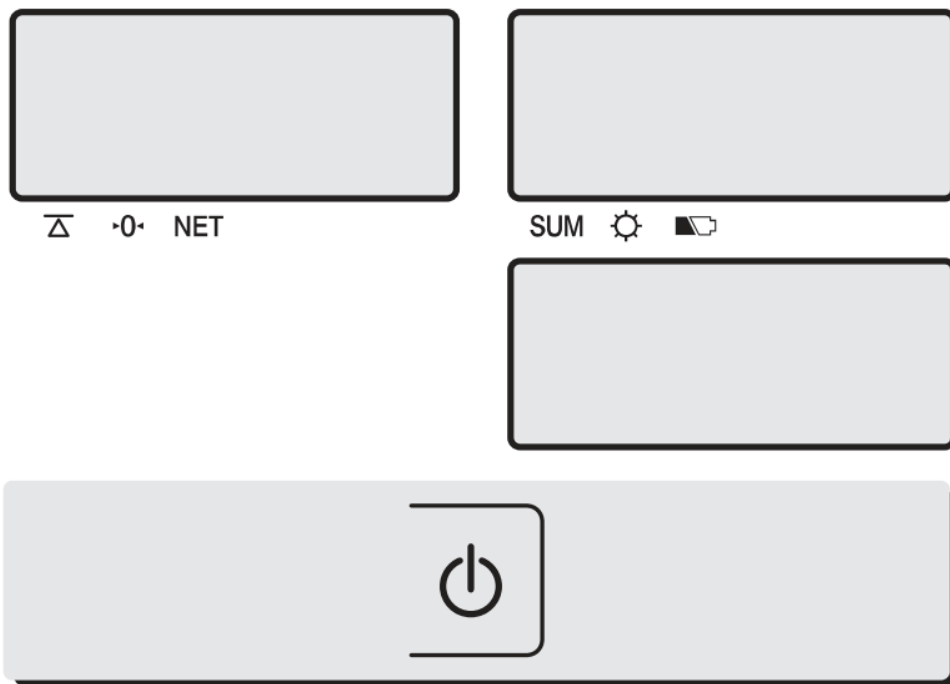
### Chapter 1. Basic Operation

#### a. To turn on/off the scale

1. Press the ON/OFF key to turn on.

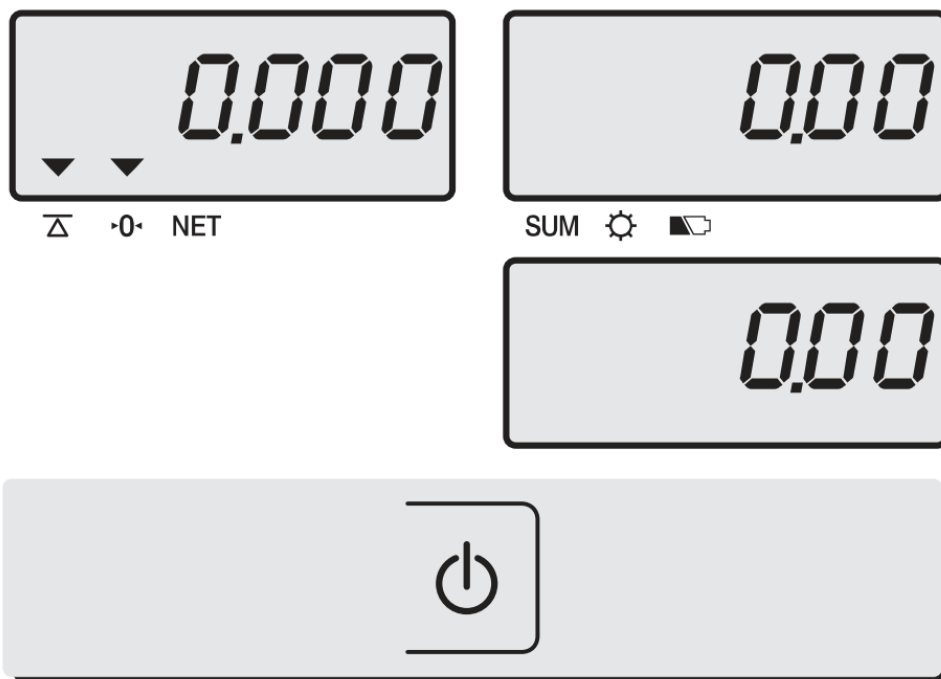


2. Press the ON/OFF key for a few seconds to turn off.

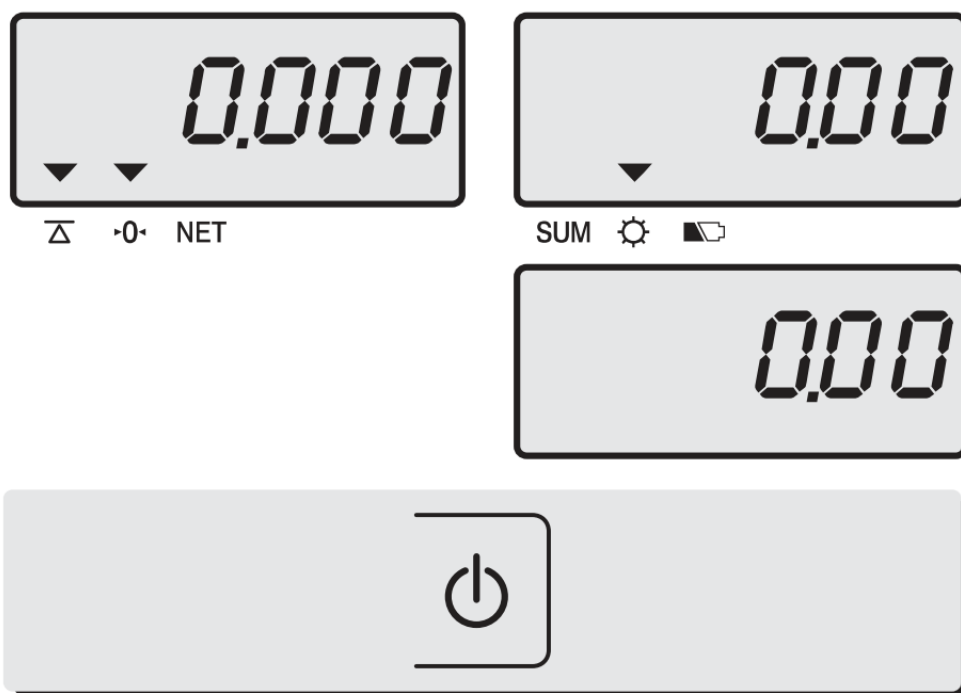


## b. To turn on/off the backlight

1. Press ON/OFF key for a few seconds under the power on.

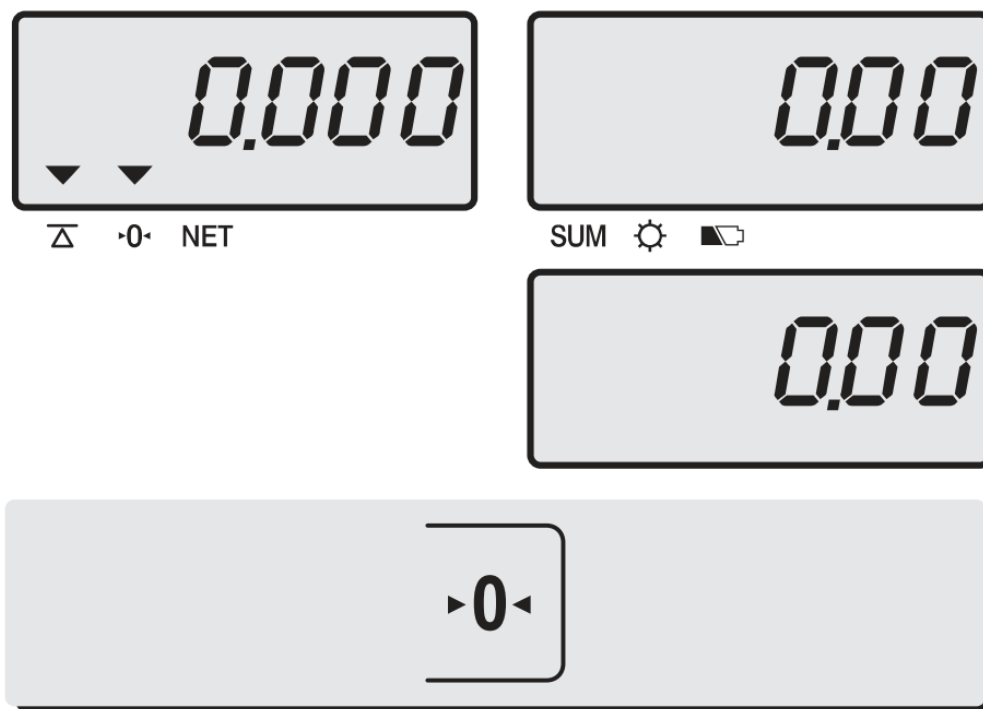


2. Press ON/OFF key again under the backlight on.



### c. Zero function

1. Press ZERO key to set Zero

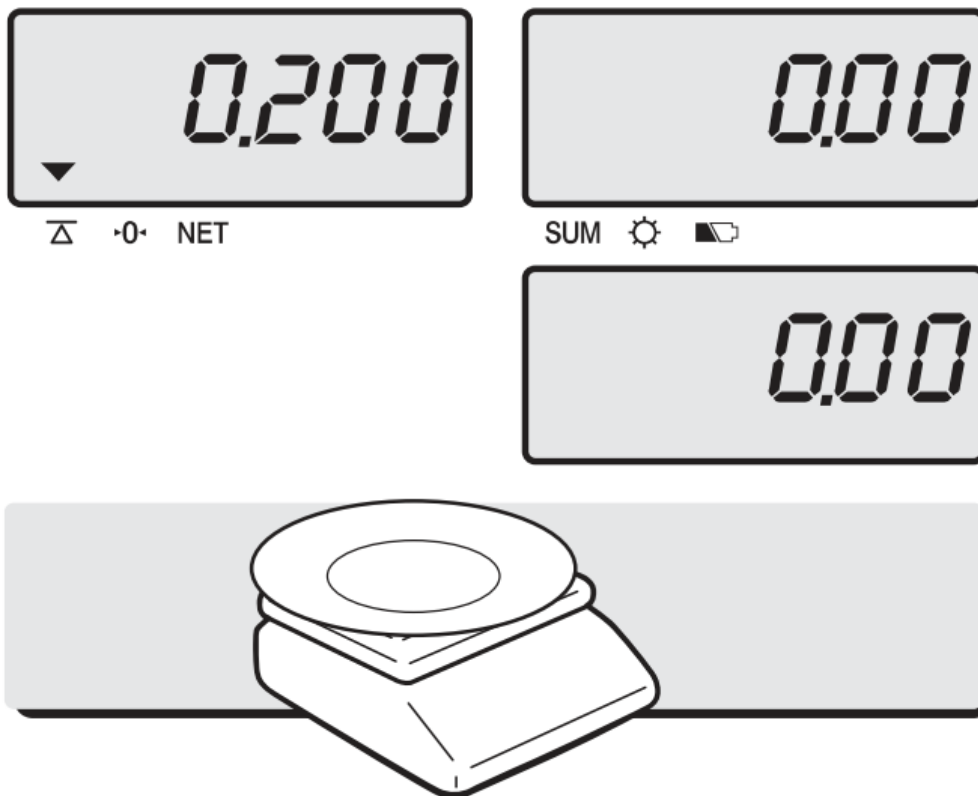


### d. Tare function

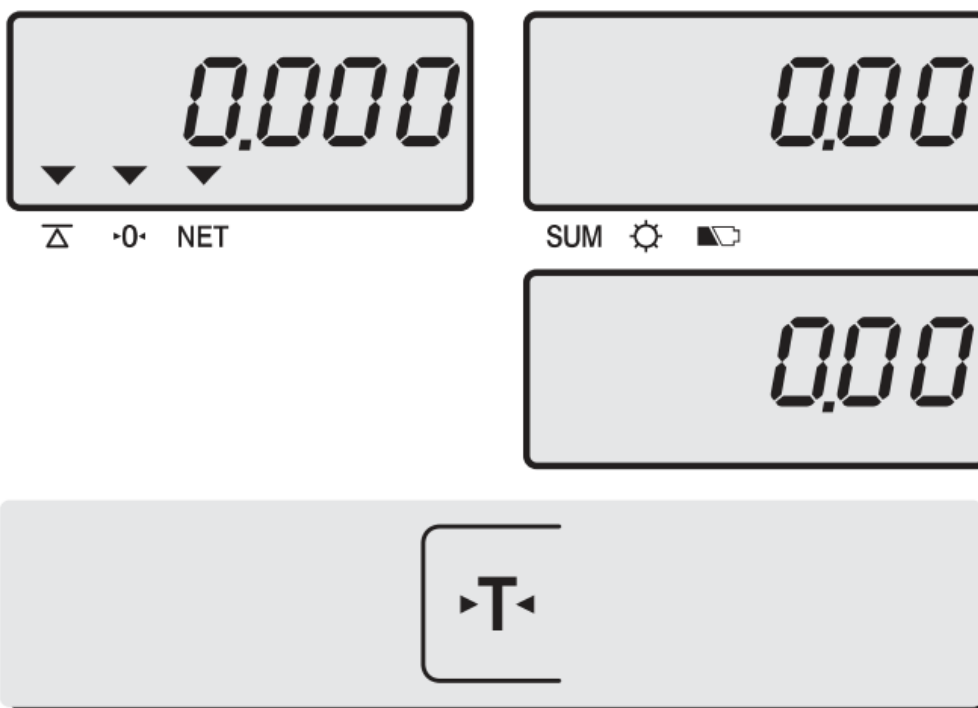
Tare means the weight of container. You may use tare function when you weigh an item with container and measure only the weight of item.

#### One time tare

1. Place a container on the platter. EX) 200g of tare.

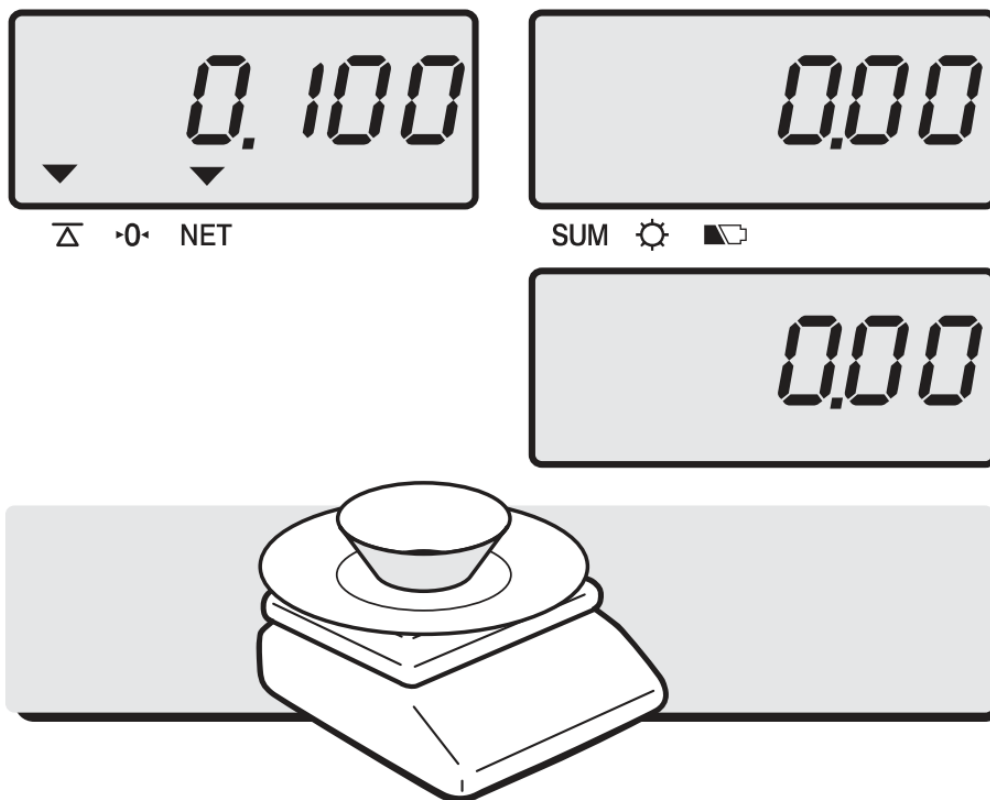


2. Press TARE key to set zero point. EX) 200g of tare.

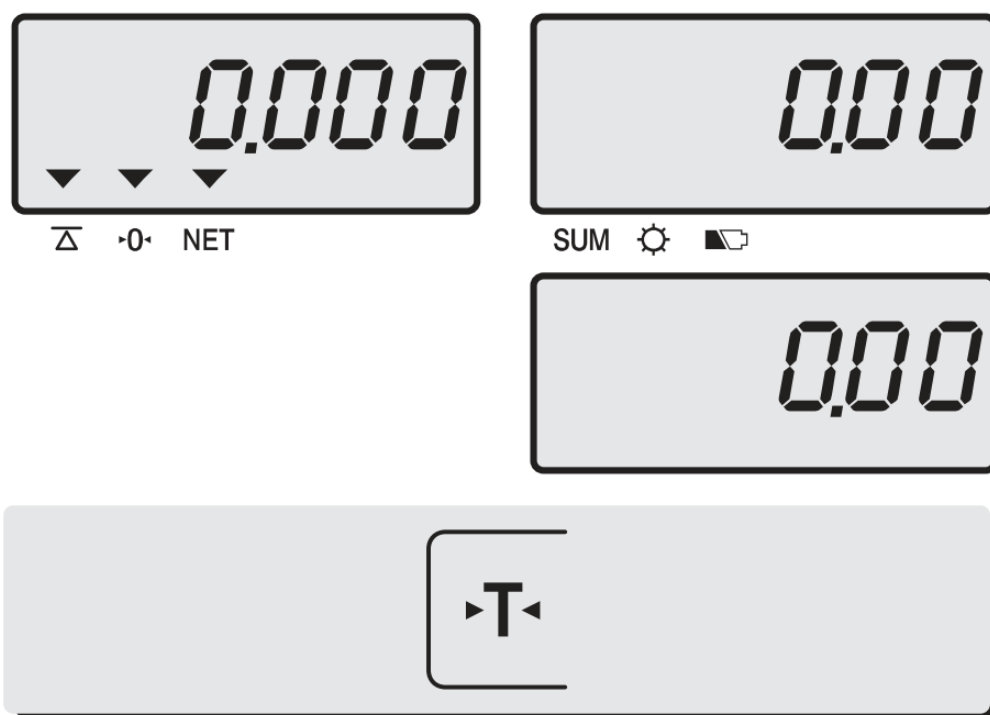


### Successive tare

3. Place another container on the platter. EX) 100g of tare.

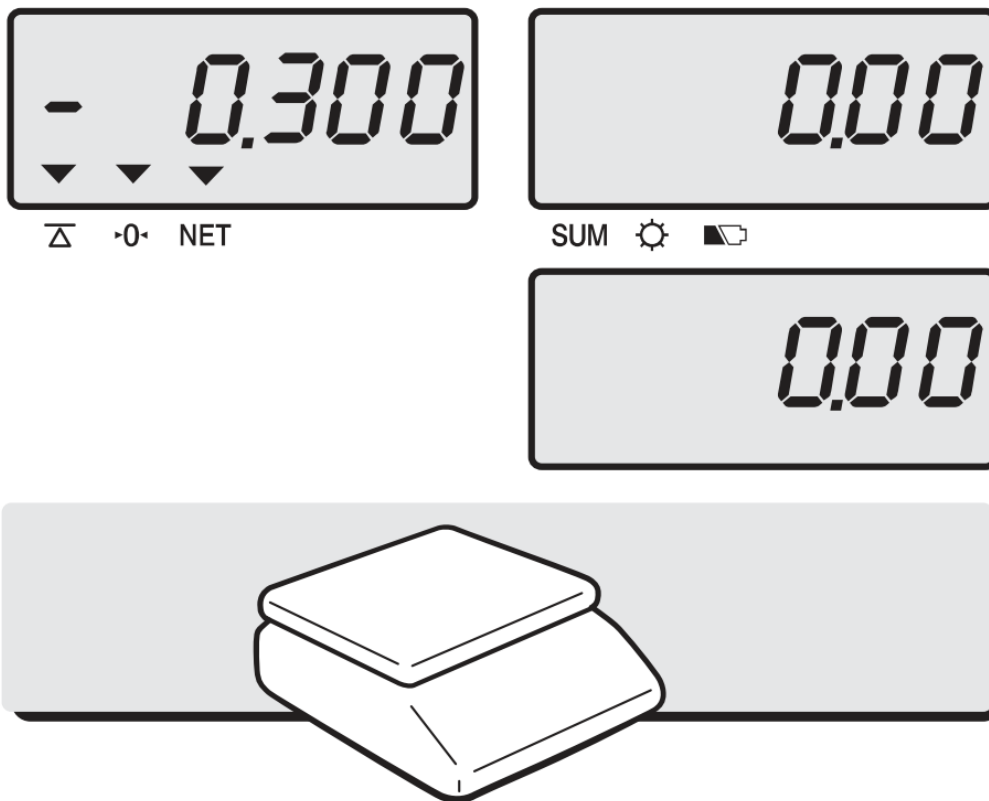


4. Press TARE key to set zero point.

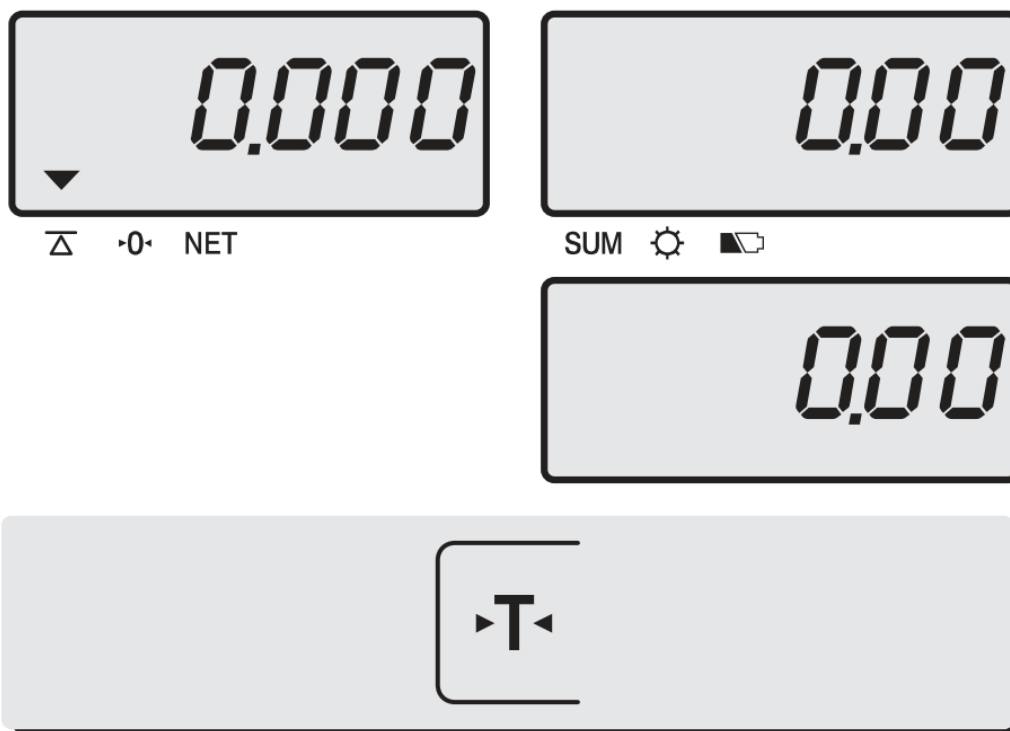


5. After weighing item remove all of the container from the platter.





6. Press TARE key again to set zero.



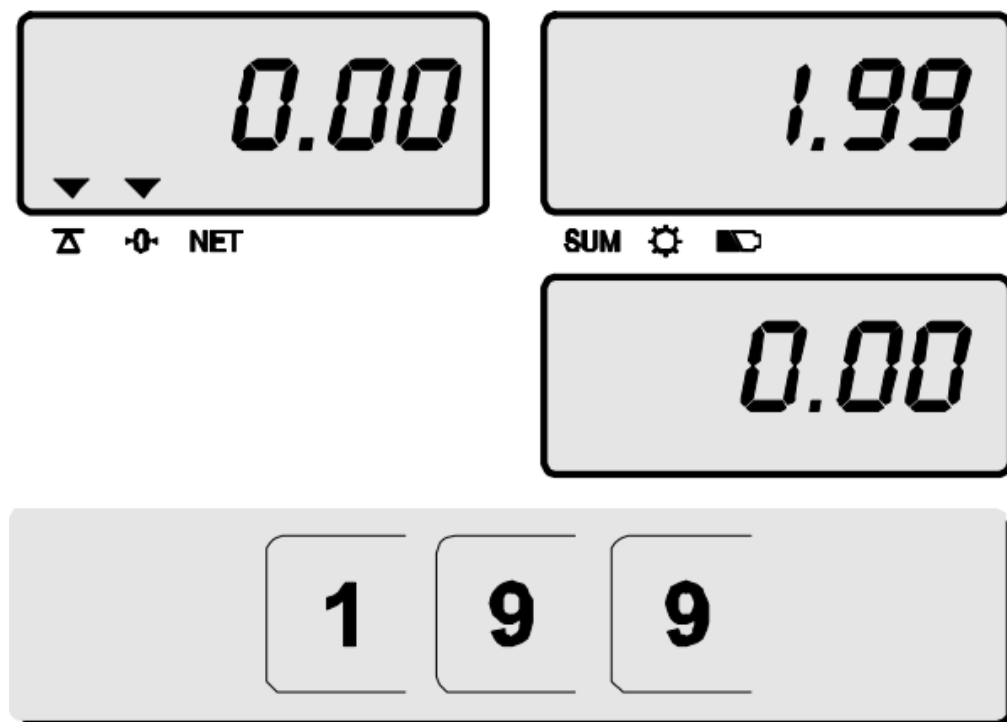
## Chapter 2. PLU Saving & Calling-up

### a. Saving unit price on PLU

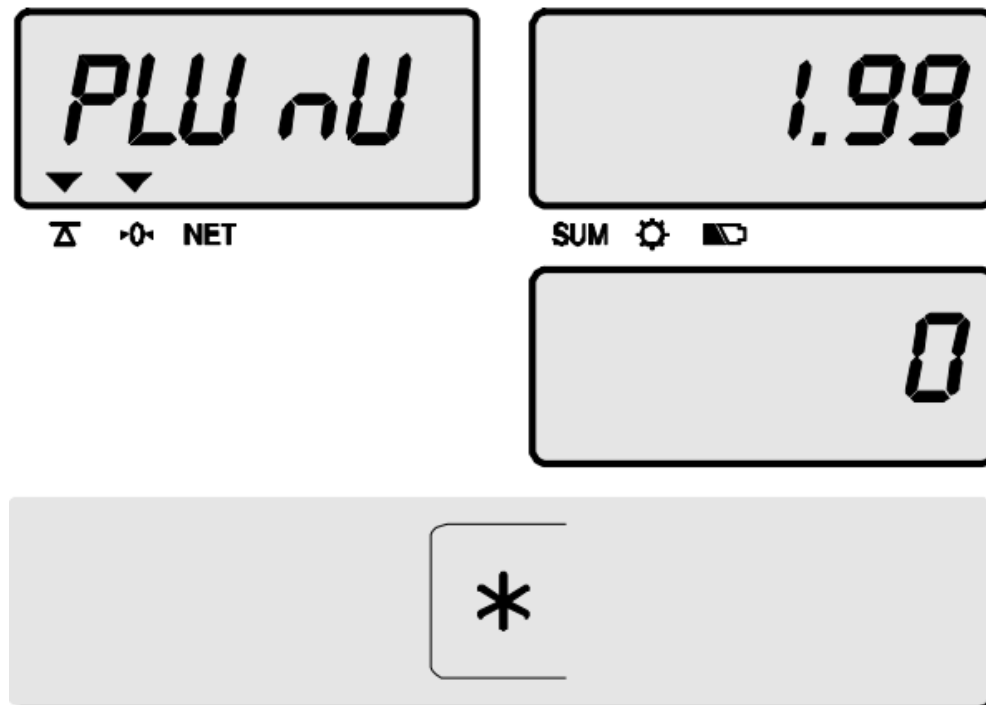
This section explains how to save unit price in PLU.

	Number of PLU	Range	Remarks
PLU name	4	1~4	

1. Press number key to input unit price you wish to have. EX)1.99



2. Press “\*” key for a few seconds to enter the PLU ‘s state can be pre-establish



3. Press PLU key (M1 ~M4) to input a direct PLU address.



△ ·0· NET



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Ex)

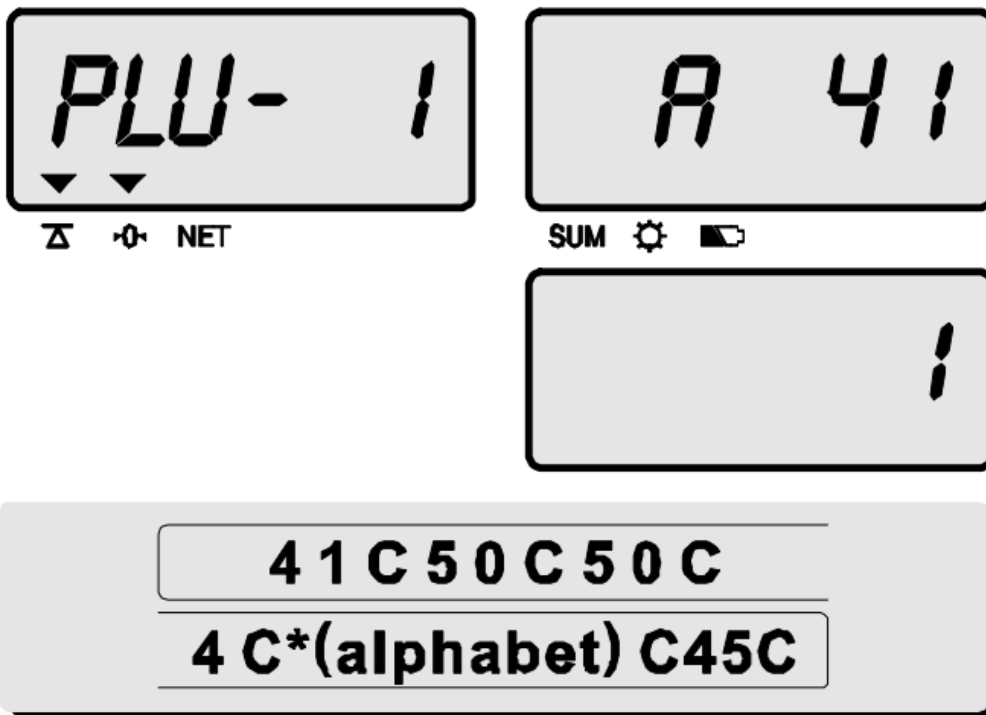


#### b. Saving PLU name (Option)

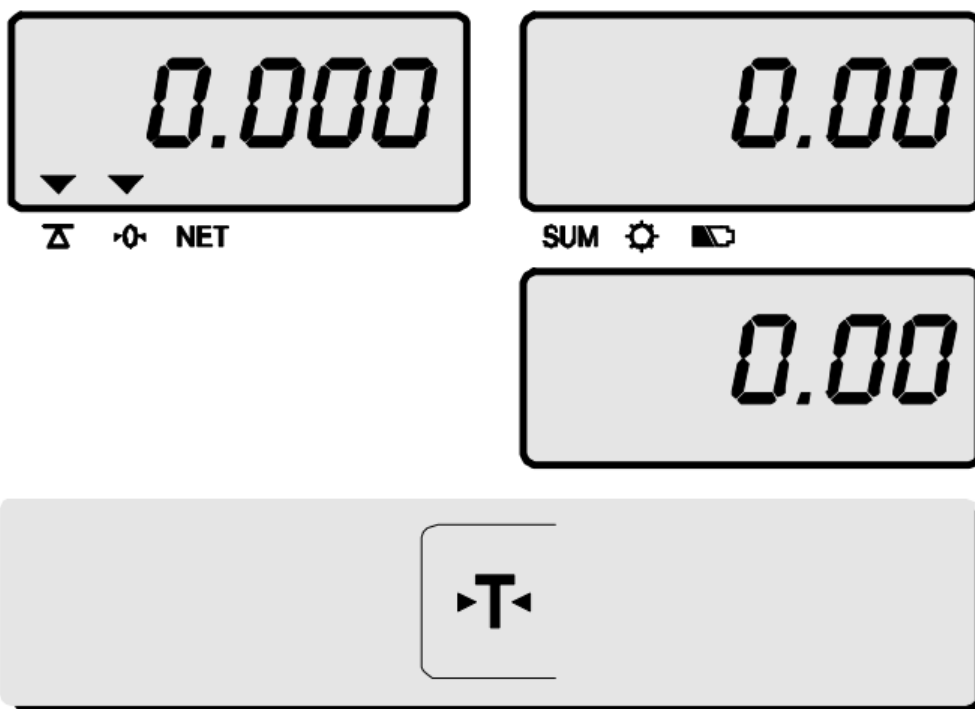
- C key is to input, save a character, and move to next character (or byte).
- TARE key is to move next programming menu.

1. Input appropriate ASCII codes to save the PLU name.

Ex) "APPLE" is "4, 1, C, 5, 0, C, 5, 0, C, 4, C(alphabet), C, 4, 5, C".

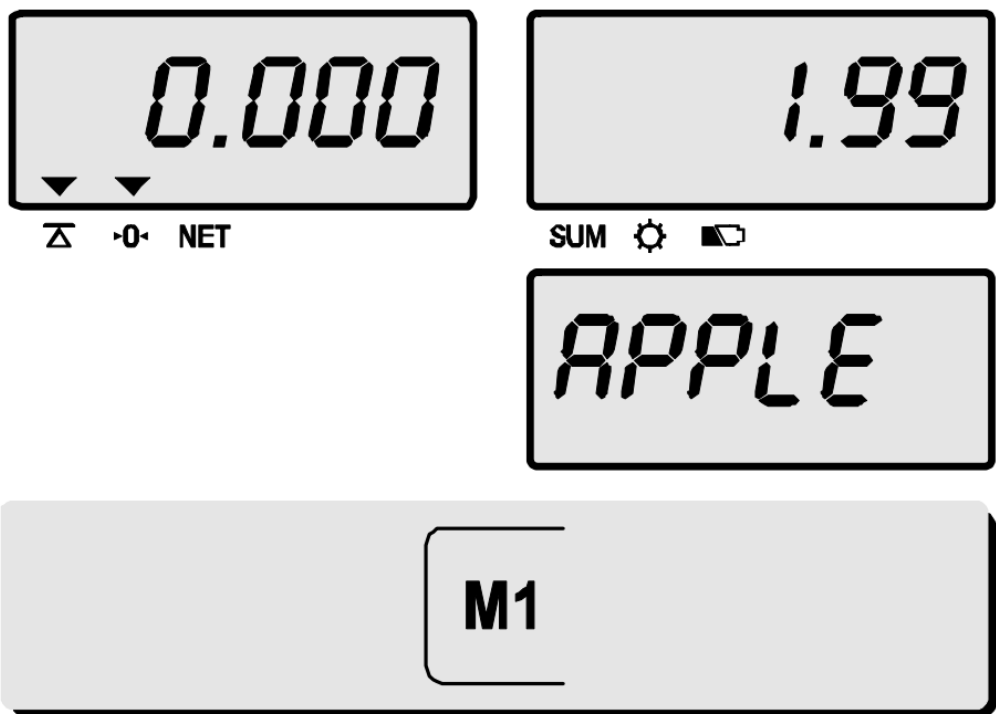


- Press TARE key to exit to normal weighing mode or C key up to maximum 8th byte. Then automatically exit to normal weighing mode.

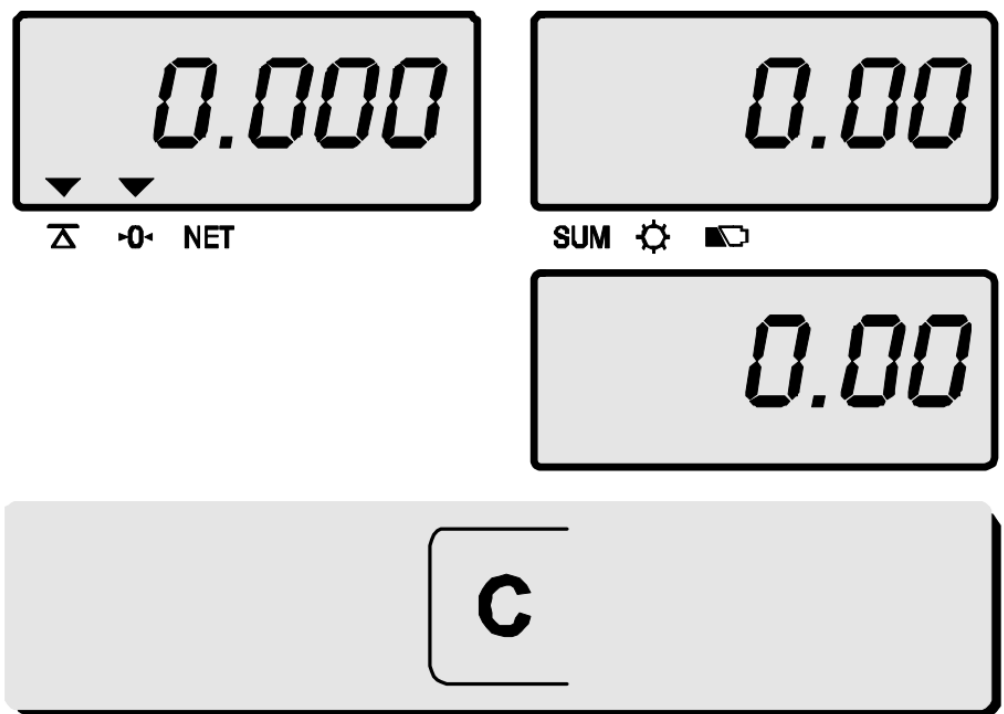


### c. Calling up PLU

- Press M1 ~ M4 key to call up PLU. e.g, Press M1 key.



2. Press C key to clear and return to the normal weighing mode.

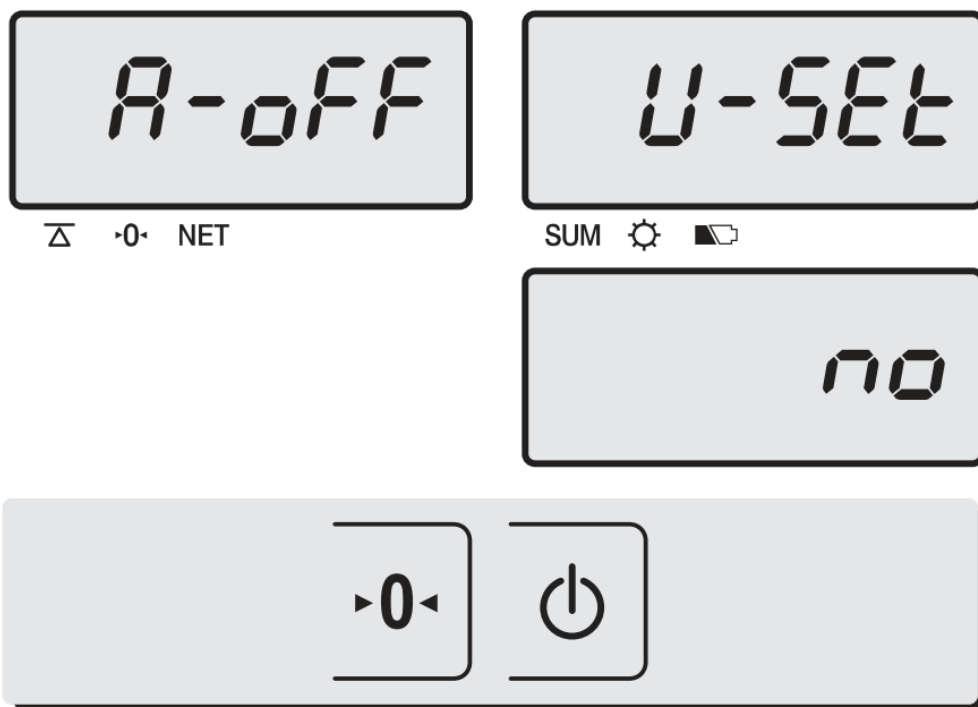


### Chapter 3. User's Set-up Mode

This section explains how to set up the following functions.

Functions	Options	Remarks
a. Auto power-off	NO / 10 / 30 / 60	
b. Backlight ON/OFF	OFF / ON / 3 / 5 / 10	
c. Brightness function	1 ~ 7	Default 3
d. Low battery backlight auto off	OFF / ON	
e. Printer selection	NON/DEP-50/DLP-50	

1. To get into “User’s Set-up Mode” press ON/OFF key pressing and holding ZERO key.



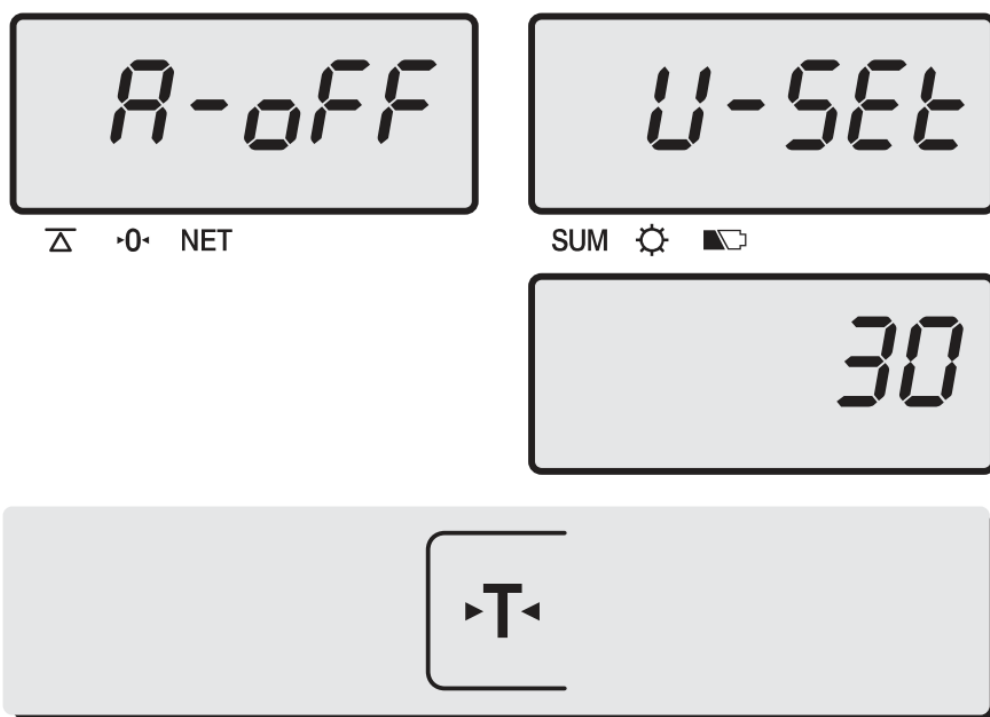
- Press ZERO key to save current option and move to next function setting mode.
- x Press TARE key to move to other next option.

#### a. Auto power-off

This section explains how to set backlight on & off function and automatic off function.

Options	Description	Remarks
NO	<ul style="list-style-type: none"> <li>No auto power-off.</li> </ul>	
10 (minutes)	<ul style="list-style-type: none"> <li>Auto power-off in 10 minutes when no use.</li> </ul>	
30 (minutes)	<ul style="list-style-type: none"> <li>Auto power-off in 30 minutes when no use.</li> </ul>	
60 (minutes)	<ul style="list-style-type: none"> <li>Auto power-off in 60 minutes when no use.</li> </ul>	

1. Select an option you wish to have by using TARE key. Ex) 30 (minutes).

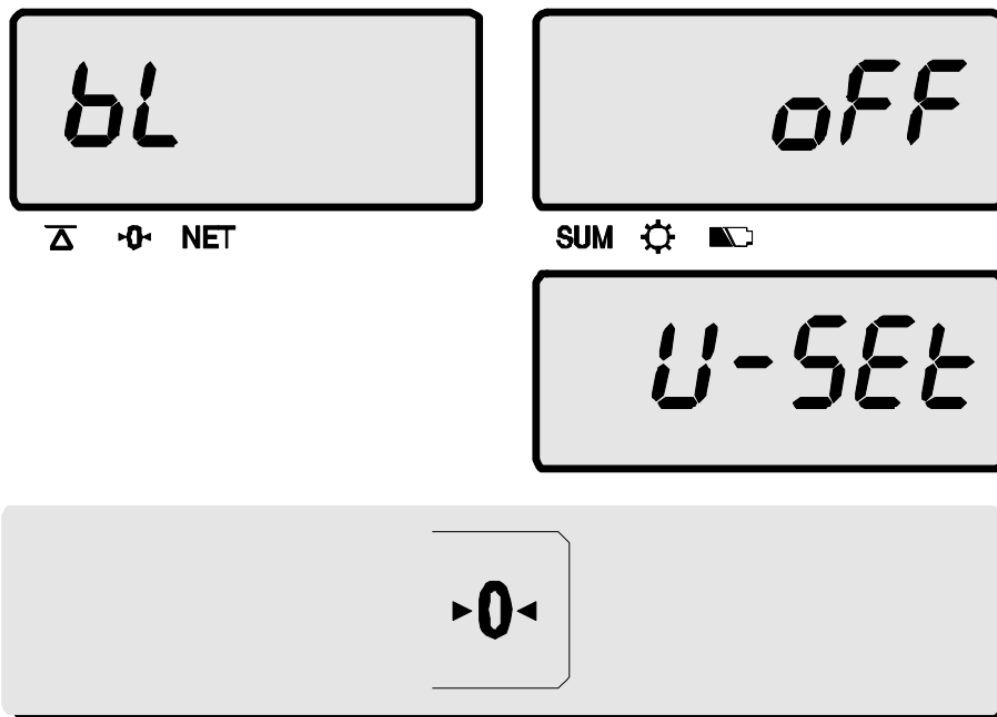


#### b. Backlight ON/OFF function

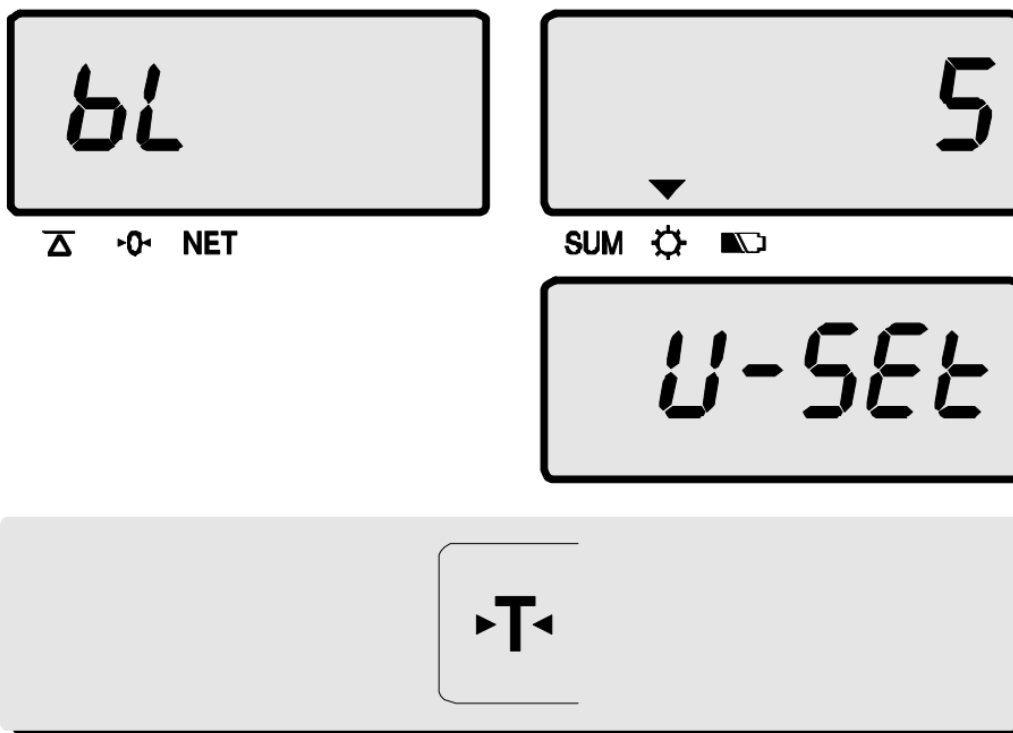
This section explains how to set backlight on & off function and automatic off function.

Options	Description	Remarks
OFF	Backlight always off	
ON	Backlight always on	
3 (Seconds)	Automatic backlight-off when not in use for 3 seconds.	
5 (Seconds)	Automatic backlight-off when not in use for 5 seconds.	
10 (Seconds)	Automatic backlight-off when not in use for 10 seconds.	

1. Press ZERO key to move next function setting, backlight ON/OFF.



2. Use TARE key to select one of backlight auto power-off option or backlight ON/OFF. Ex) Select 5 seconds auto power-off option.

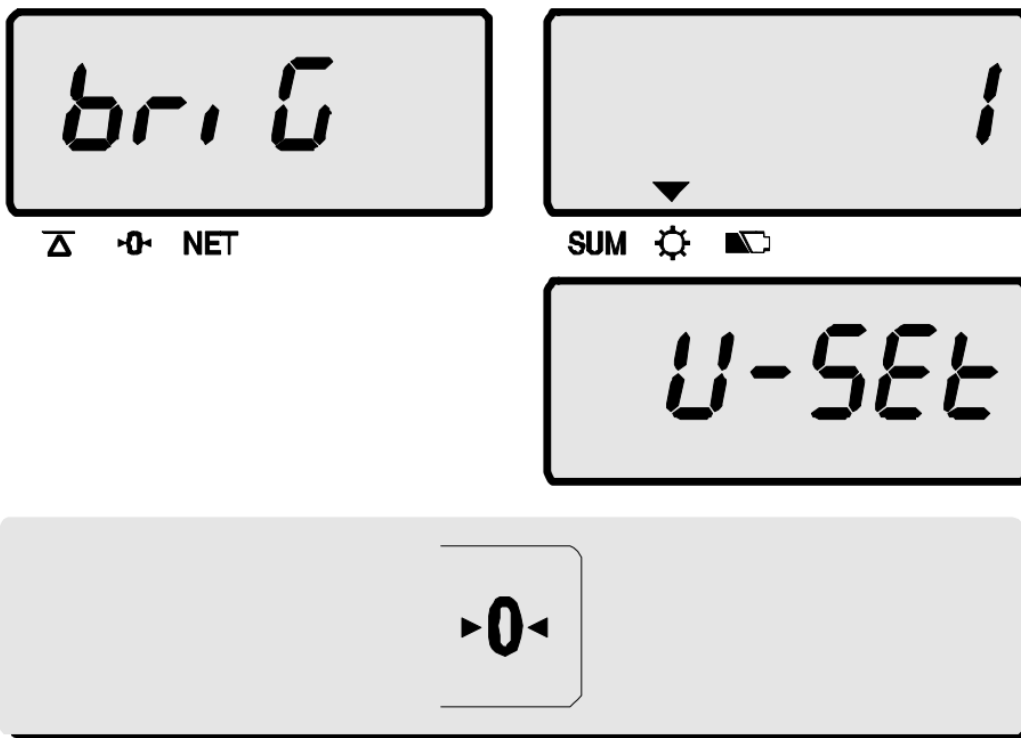


### c. Brightness function

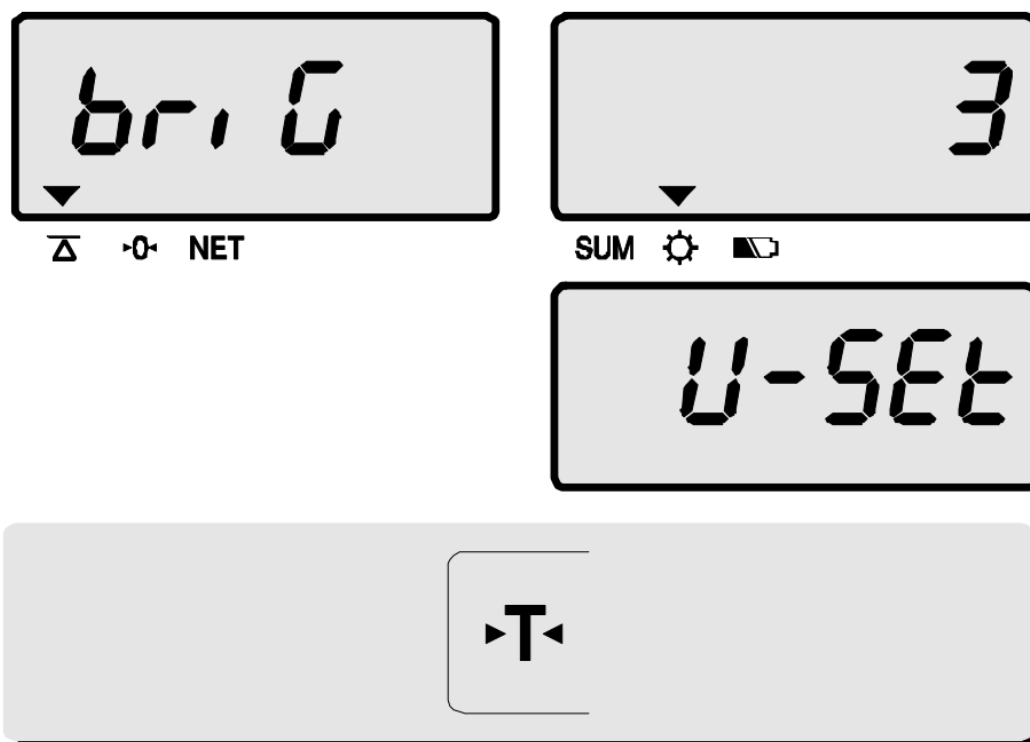
This section explains how to set brightness level (1 ~ 7)

3. Press ZERO key to move next function setting, backlight brightness.





4. Press TARE key to select brightness (1~7).



#### d. Low battery backlight auto off function

This section explains how to set Backlight Auto Off. If the scale uses backlight Auto Off function, it will turn off when low battery indicator occurs

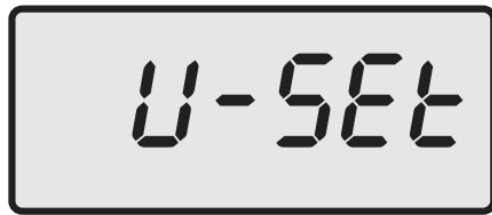
1. Press ZERO key to move next function setting, low battery backlight auto off..



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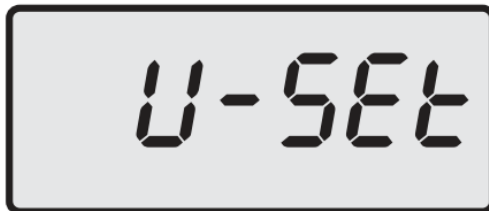
2. Press TARE key to select backlight on/off.



△ 0 NET



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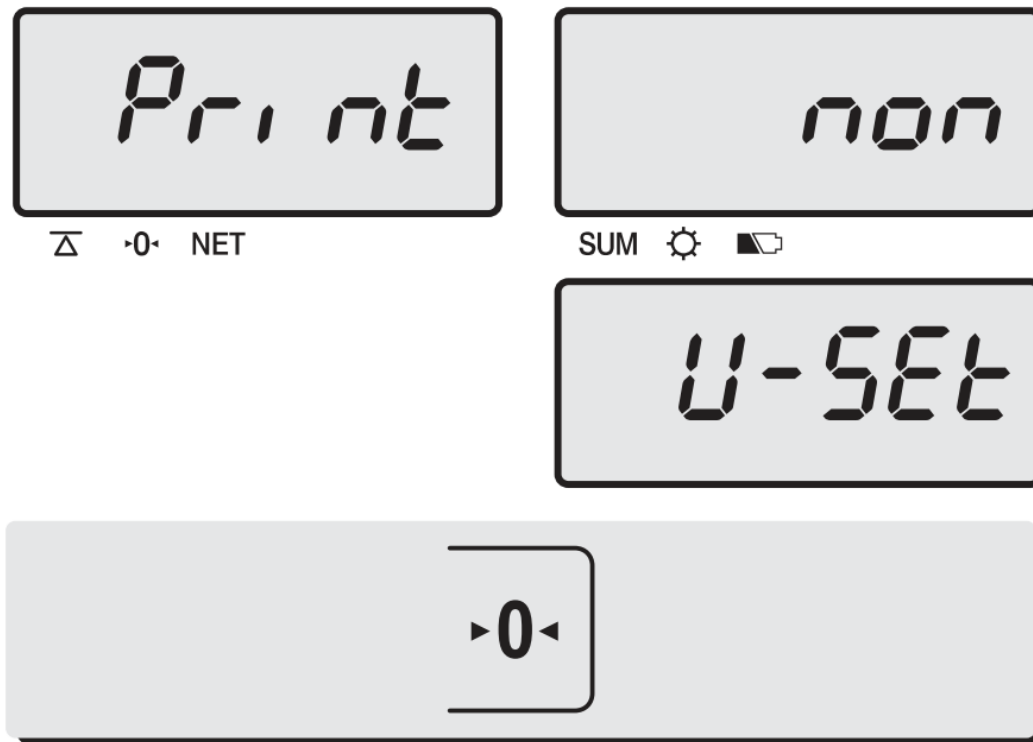


### e. Selecting the printer

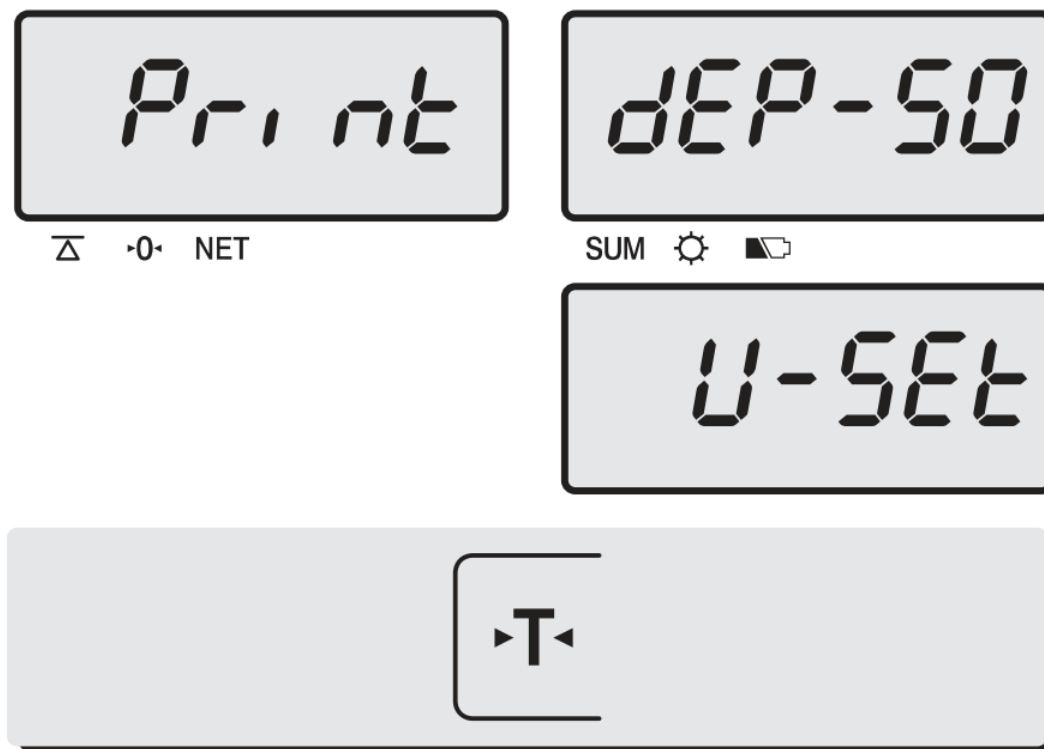
This section explains how to select the printer option when you'd like to use the printer connected to ER JR .

Options	Description	Remarks
NON	No printer in use	
DEP-50	DEP-50 printer interface	
DLP-50	DLP-50 printer interface	

1. Press ZERO key to move next function sett selecting the printer.



2. Select the printer you're using with ER JR by pressing TARE key. EX) DEP-50



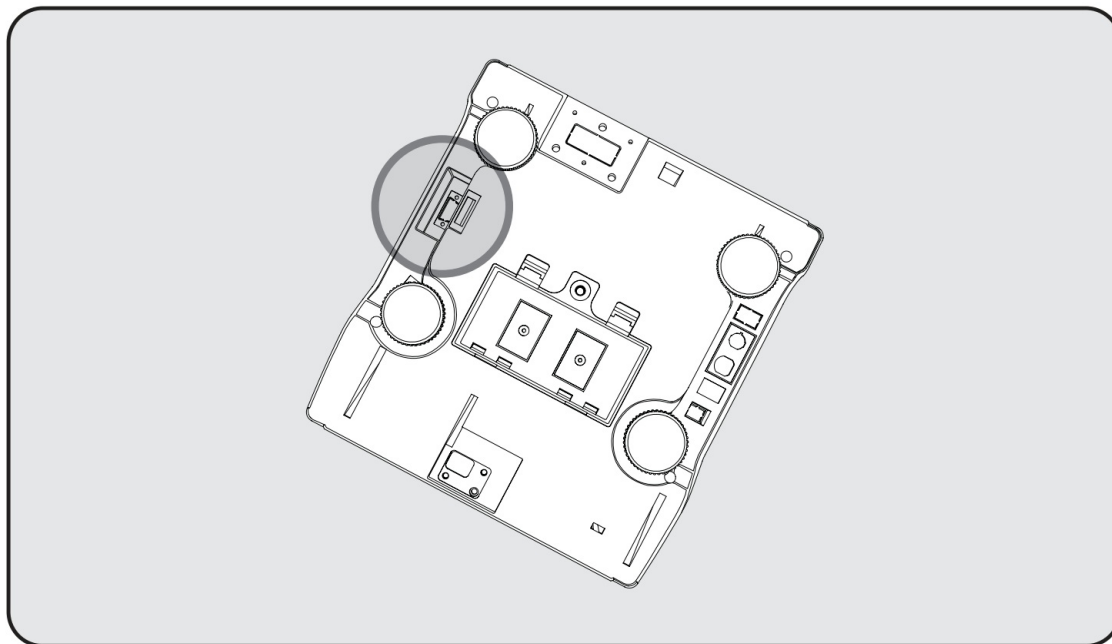
## Chapter 4. Formatting Printing Receipt

This chapter explains how to set the receipt format in the following fields.

Options	Description	Remarks
HEADER	To input characters you wish to have on the receipt header.	Maximum 1,2 line / 24 characters, 3 line / 16 characters for each line
UNIT	To input currency symbol or characters you wish to have on the receipt.	Maximum 8 characters
DATE	To input date on the receipt.	

#### a. Using Printer

Please connect your printer to RS-232C port, which is located at the gray part on the picture, using RS-232C cable.



#### b. Receipt header setting

Options	Description	Remarks
HEADER	To input characters you wish to have on the receipt header.	Maximum 1,2 line / 24 characters, 3 line / 16 characters for each line

User may input the name of store, telephone number, or other expressions he/she wishes to have on the receipt.

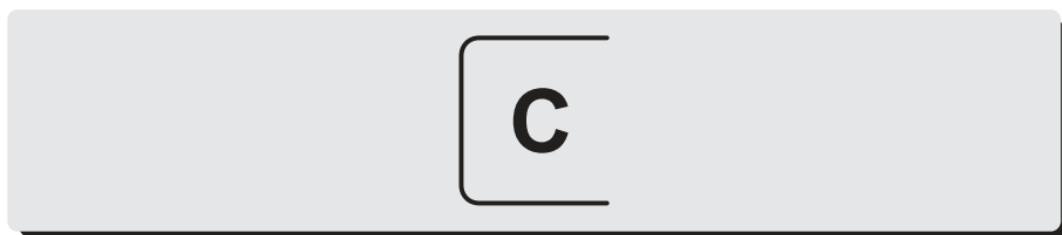
1. Hold down C key and press ON/OFF key under the scale power off. "O1" on the "Unit Price" display represents that you are ready to input the first character.



△ 0 NET



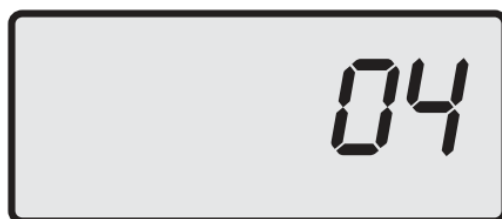
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2. Input appropriate ASCII codes (page on 30) you wish to have. Ex) CAS.



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3. To save it and go next header line press TARE key



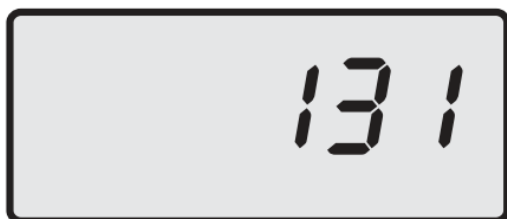
Σ 0 NET



SUM ⚙️ 🔋



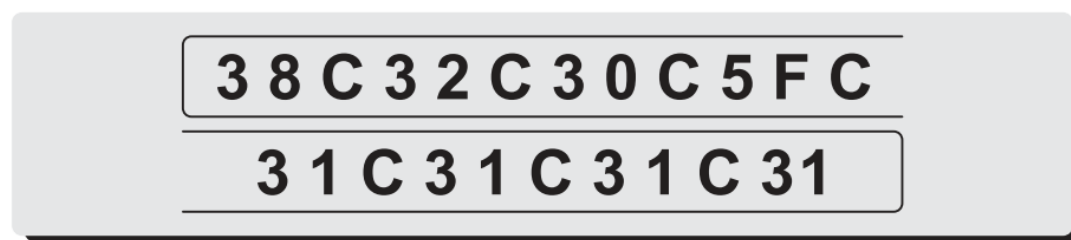
4. Using ASCII code you can input appropriate data on Header 2. Ex) 820-1111, telephone #.



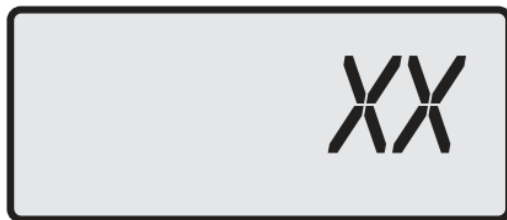
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5. To save it and go next header line press TARE key



△ 0 NET



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6. Using ASCII code you can input appropriate data on Header 3. Ex) THANK YOU



△ 0 NET



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### c. Receipt currency (unit) setting

1. initial currency (unit) display status.



△ 0 NET



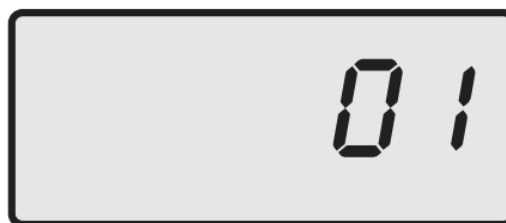
SUM ⚙️ 🔋



2. Using ASCII code you can input appropriate character or currency symbols on UNIT. Ex) \$



△ 0 NET



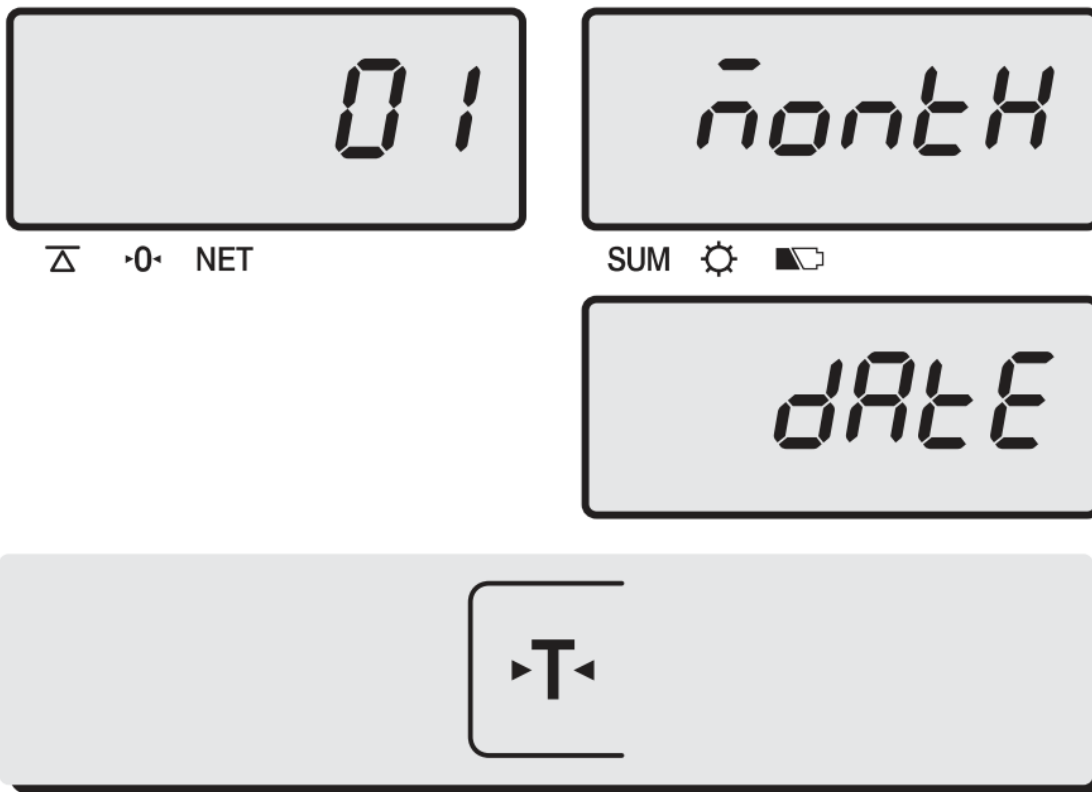
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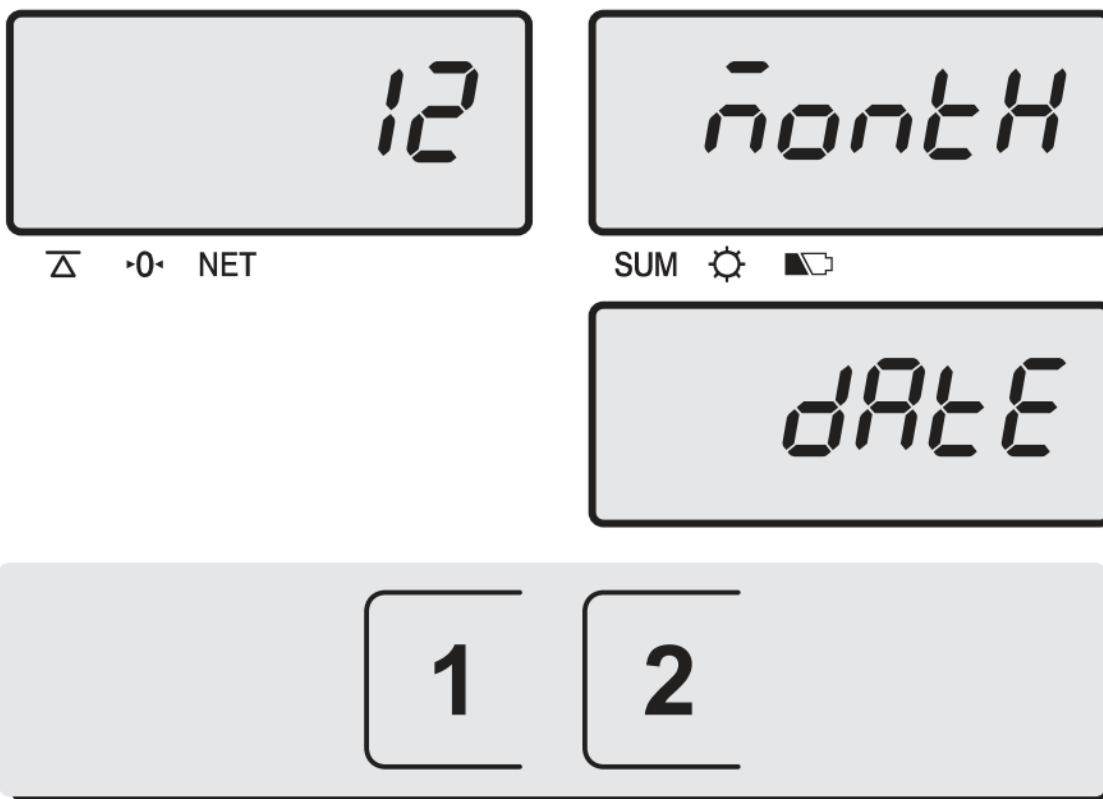
#### d. Receipt date setting

1. To save it and go to "Initial DATE display" status press TARE key





2. Just input appropriate month you wish to have, not using ASCII code. Ex) 12 (December)



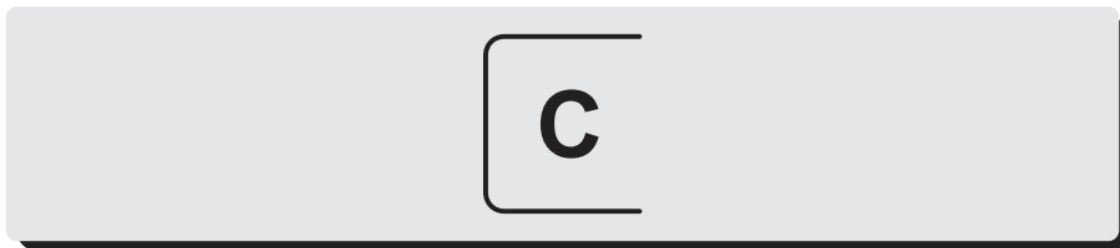
3. Press C key to go to next "DAY" setting.



△ 0 NET



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4. Just input appropriate day you wish to have, not using ASCII code. Ex) 12th day



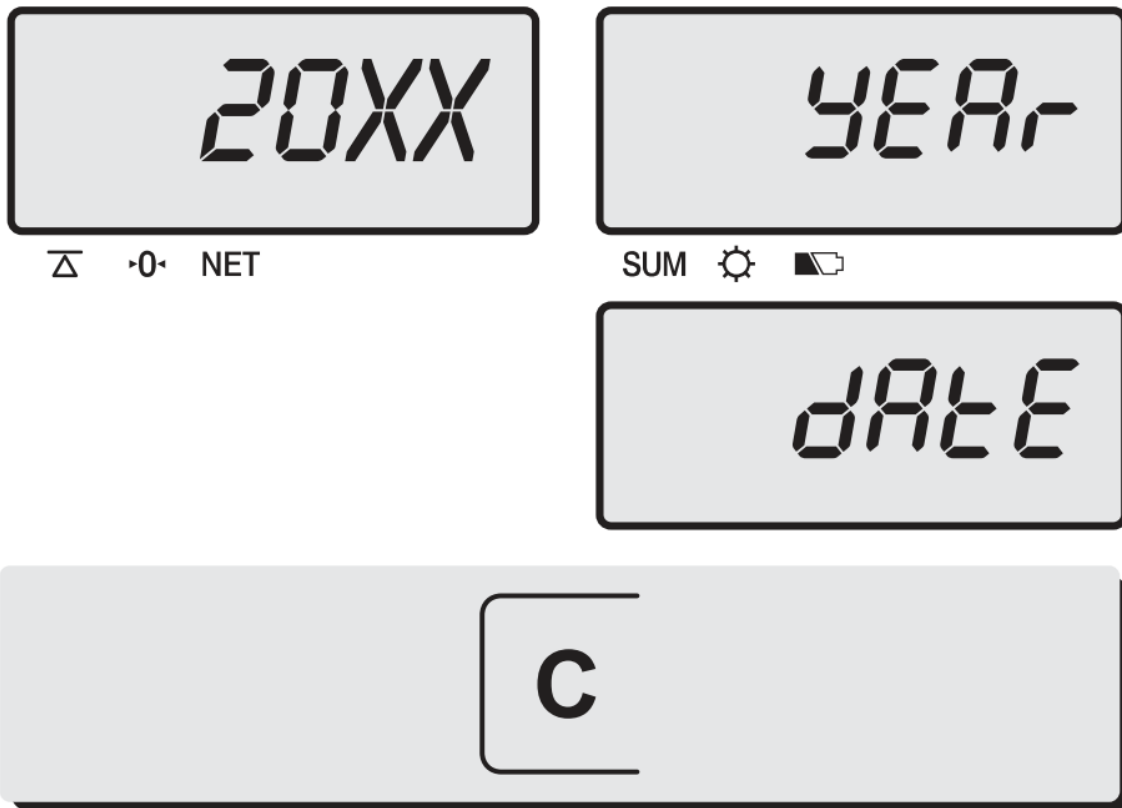
△ 0 NET



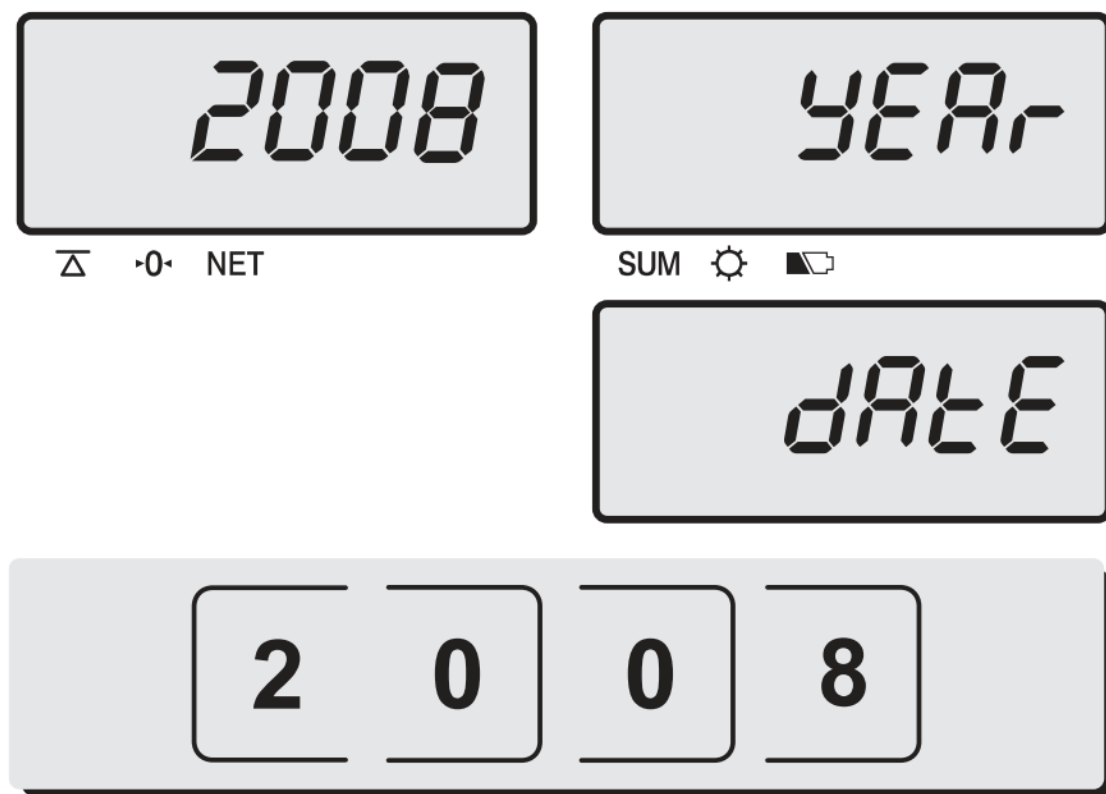
SUM ⚙️ 🔋



5. Press C key to go to next "YEAR" setting.



6. Just input appropriate year you wish to have, not using ASCII code. Ex) Year 20



- If you press C or T(TARE) key you can automatically go to normal weighing mode.

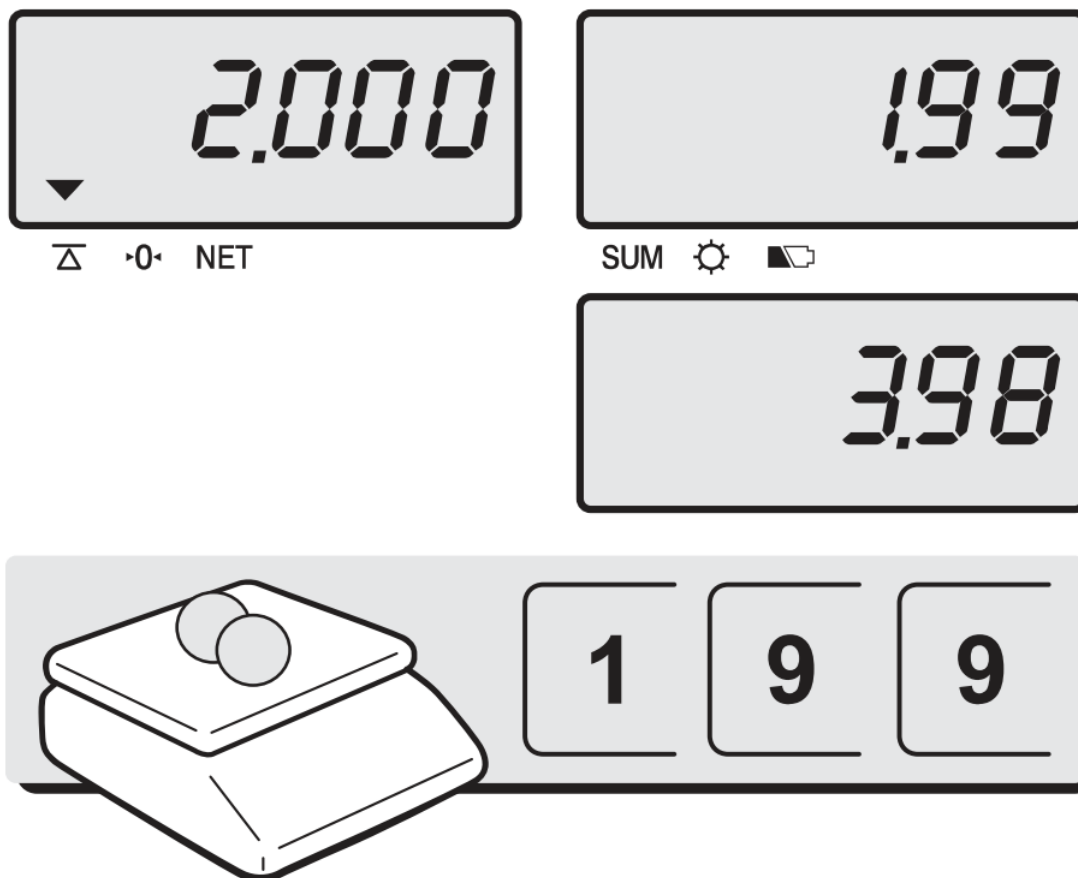
## Chapter 5. Sales transaction

ER JR can provide inputting the unit price through the numeric key and calling up PLU.

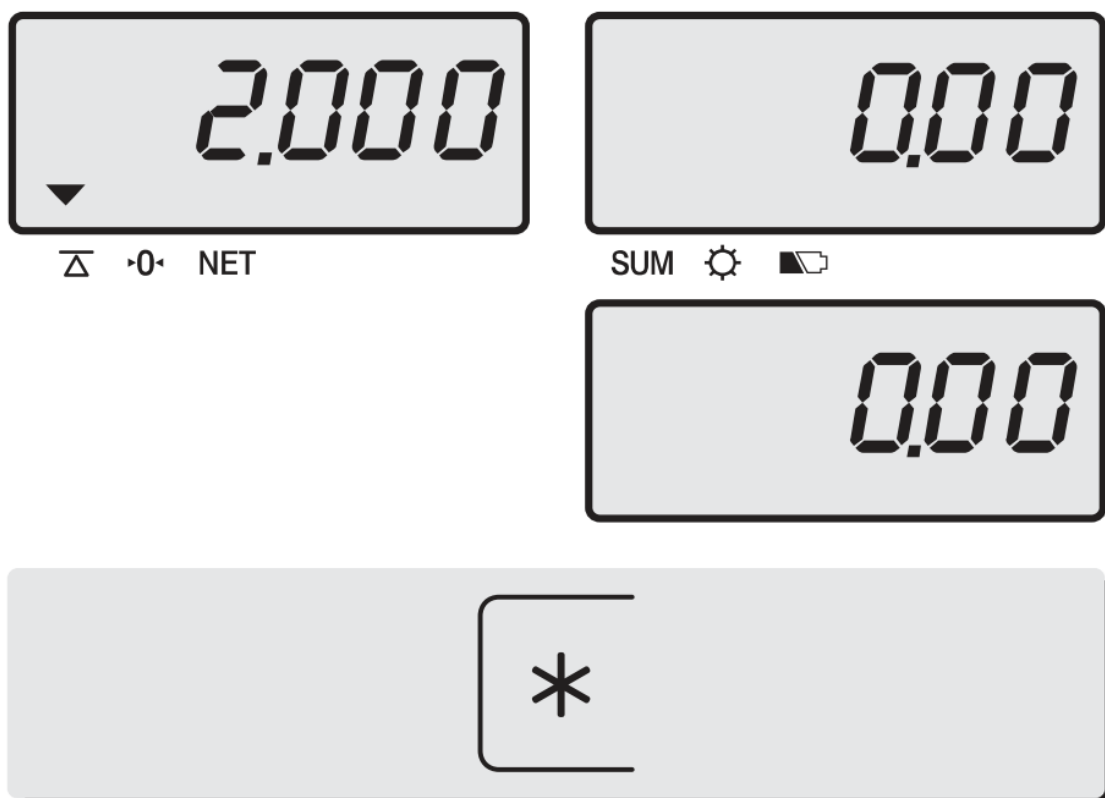
### a. Input the unit price through the numeric key

This section explains how to input the unit price through the numeric key and complete the sales transaction.

1. Place an item on the platter and press appropriate numeric keys to input unit price. EX) 1.99 for unit price.



2. If you press **\*** key add this transaction to daily total amount and number of sales data., Unit-price & total price window is clear. \* if the scale is connected printer, sale transaction data will printed out.



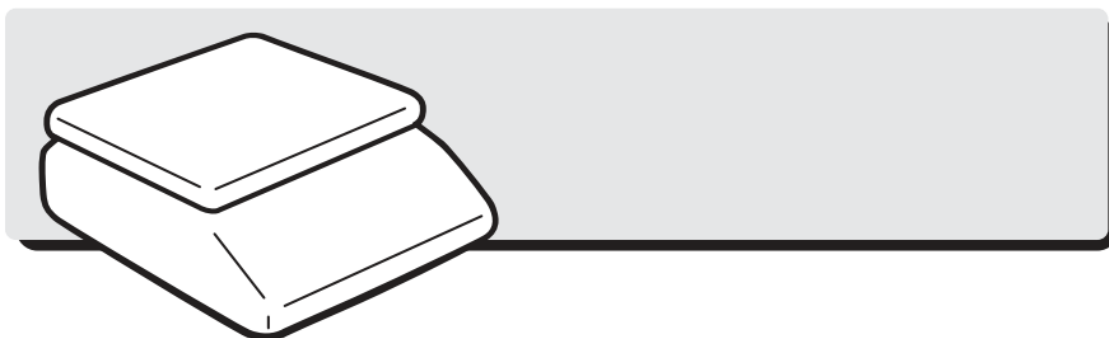
3. Remove the item from the platter



NET



SUM



b. Input the unit price through calling up PLU

1. Press M1~M4 key can call up the PLU. EX) M1



NET



SUM



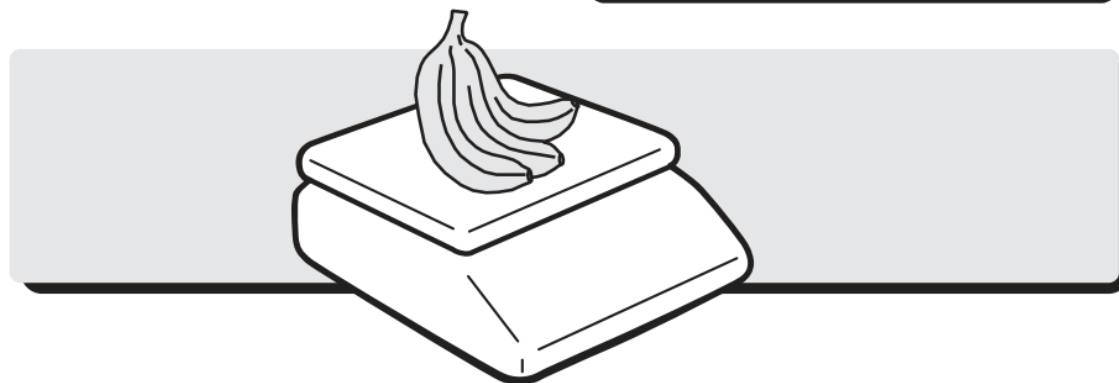
2. Place an item on the platter.



NET



SUM



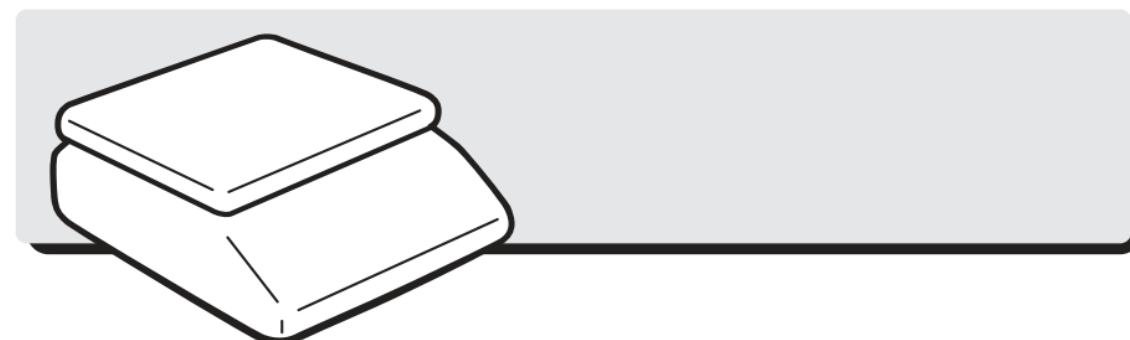
3. If you press “\*” key add this transaction to daily total amount and number of sales data., Unit-price & total price window is clear. \* if the scale is connected printer, sale transaction data will printed out.



NET



SUM



4. Remove an item on the platter.



△ 0 NET



SUM ⚙️ 🔋



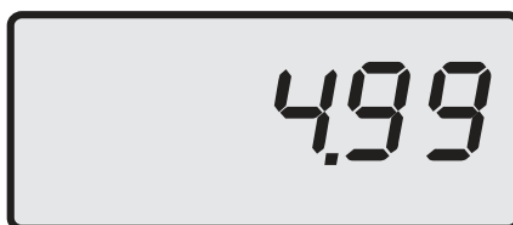
### c. Add up the total amount

Press + key to make the adding-up transactions. You may either call up PLU to input the unit price.

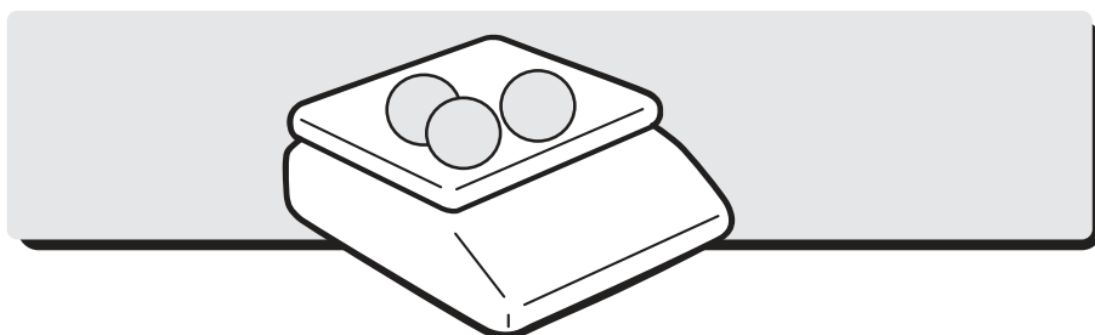
1. Press M1~M4" key to call up the PLU directly. e.g. M1.



△ 0 NET



SUM ⚙️ 🔋



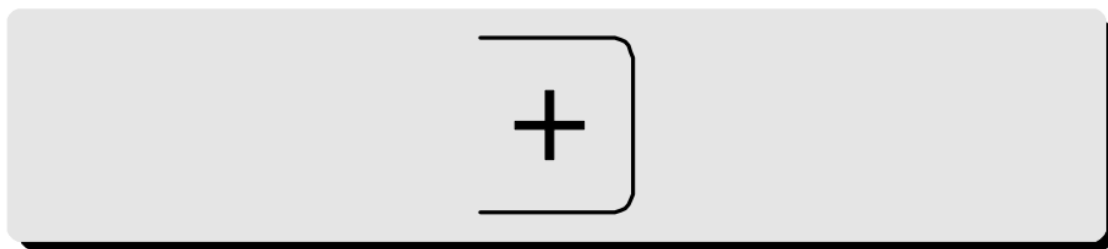
2. Place an item on the platter.



⏮ 0 NET



SUM ⚙️ 🔋



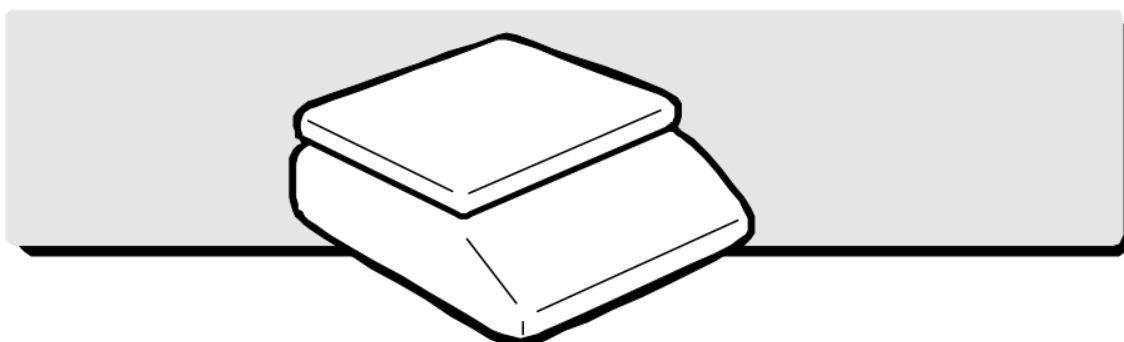
3. Press + key



⏮ 0 NET



SUM ⚙️ 🔋



4. Remove the item from the platter.





△ 0 NET



SUM ⚙️ 🔋



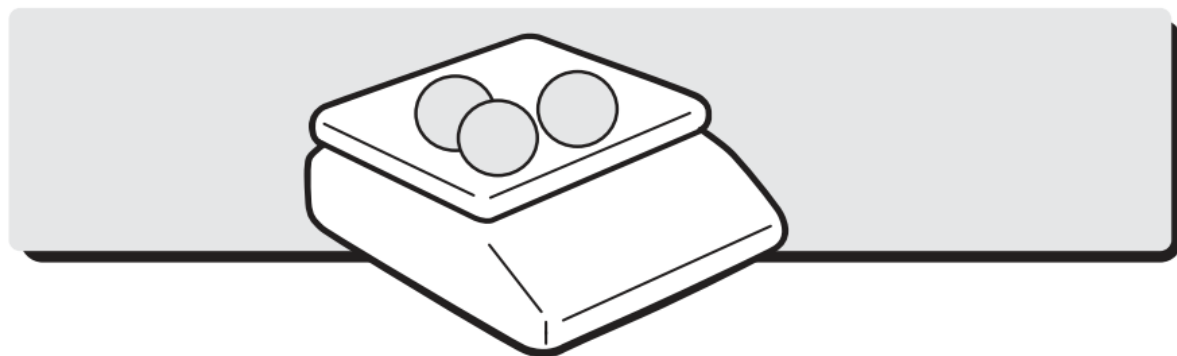
5. Input the unit price through the number key. EX) 2.99 for peanut dessert.



△ 0 NET



SUM ⚙️ 🔋



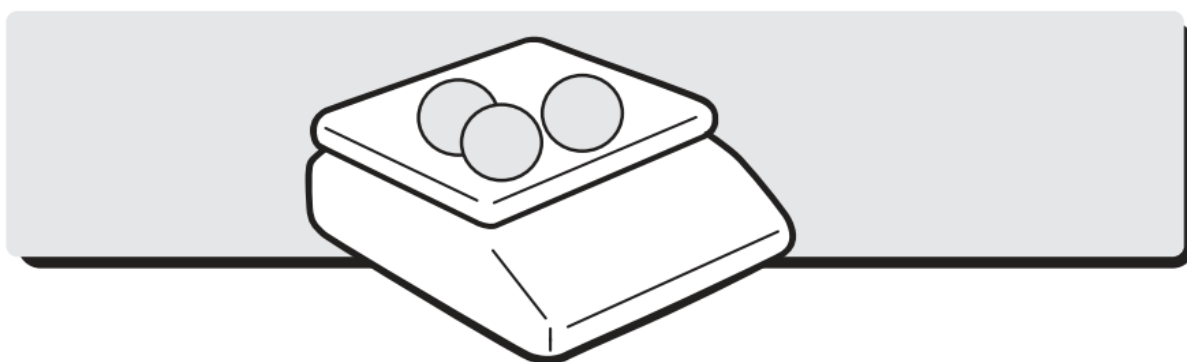
6. Place the item on the platter.



△ 0 NET



SUM ⚙️ 🔋



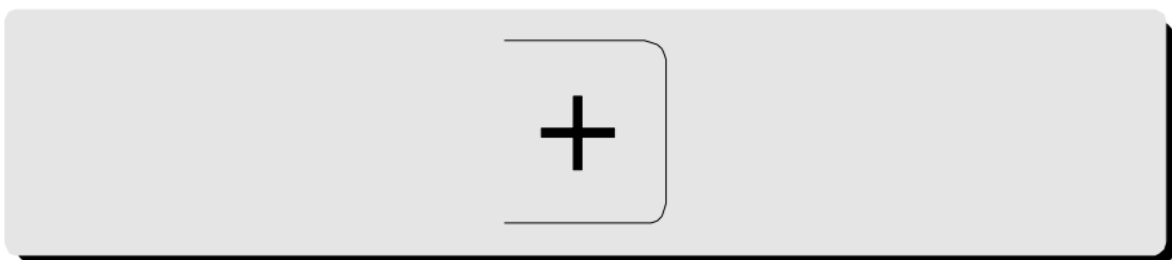
7. Press + key. “ Total price ” display says total price added. And “ Unit ” display says the number of sales transactions added



△ 0 NET



SUM ⚙️ 🔋



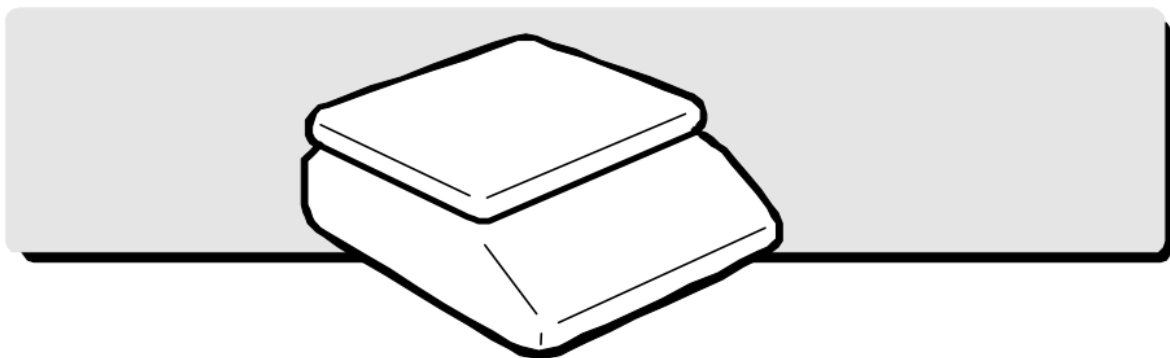
8. Remove the item from the platter



NET




SUM

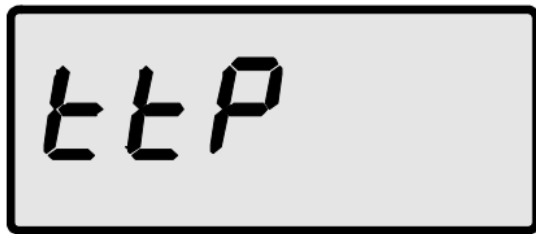


You can also place the item on the platter first, and then input the unit price The maximal adding-up times is 1000, and the maximal total price is 999,999

#### d. Inspect or clear the total amount

Checking total account.

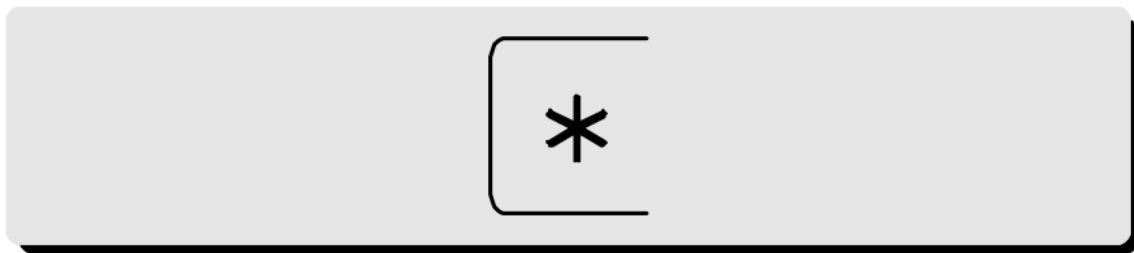
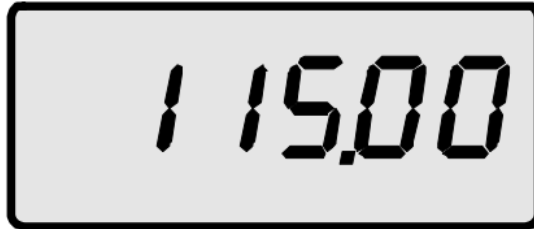
1. Press  key to inspect the total amount.
2. e.g. total amount=115.00. total number of transaction = 5



⏏ 0 NET



SUM ⚙ 🔋



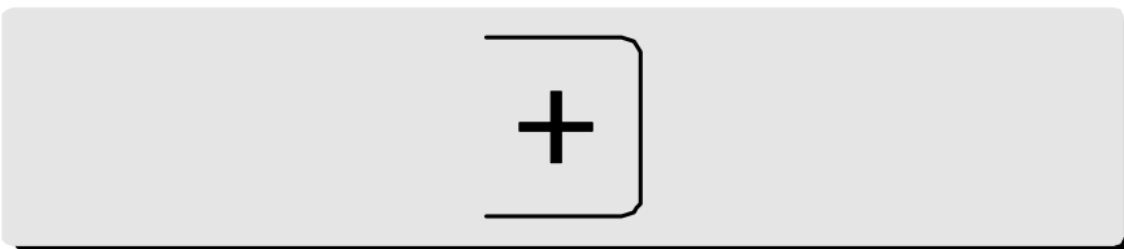
3. Press \* Key to go to normal weighing mode.



⏏ 0 NET

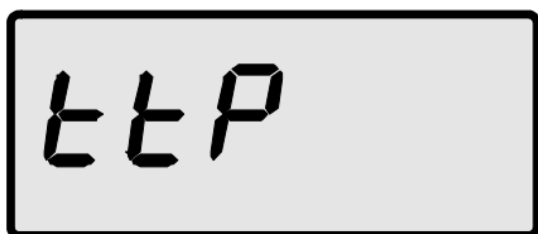


SUM ⚙ 🔋



4. Press key to inspect the total price.

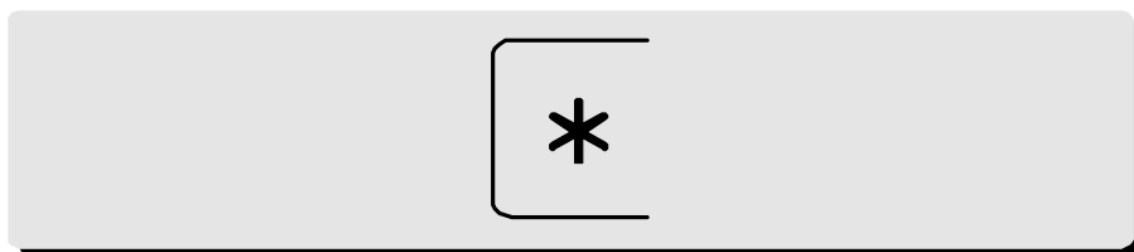
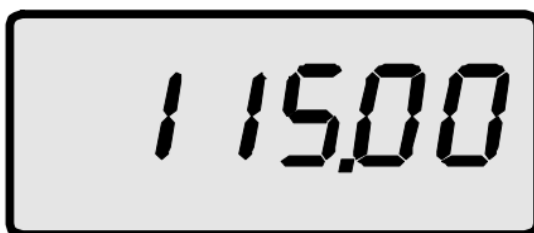
e.g. total amount=115.00, total number of transaction=5



⚖️ 🔌 NET



SUM ⚙️ 🔋



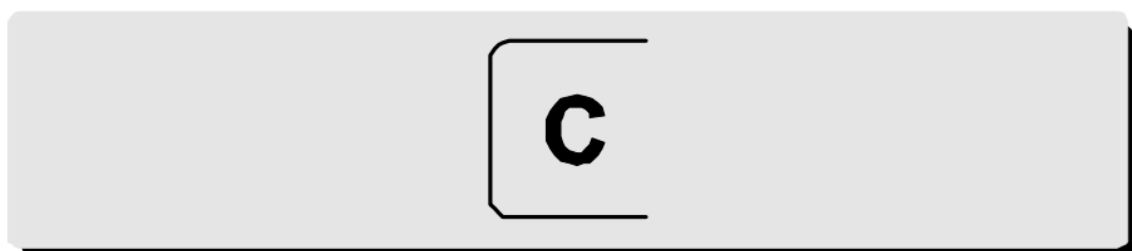
5. Press C key to clear the total amount, and exit to the normal weighing mode.



⚖️ 🔌 NET



SUM ⚙️ 🔋









## Chapter 6. EURO Setting Method(Optional)

- KEYBOARD



• **Table** : Key Functions

KEYS	FUNCTIONS
0 ~ 9	Numbers import
M1 ~ M4	Direct PLU keys
	Function key, PLU restore, Push more than 2 second when using PLU Restore mode or finalize sales transaction
	Used to set Euro to local currency, and vice versa
	To clear data
	To set zero
	To set up or clear tare value
	To turn on/off the scale or backlight

**a. Saving EURO rate**

1. Press the key  for a few seconds



Δ ·0· NET



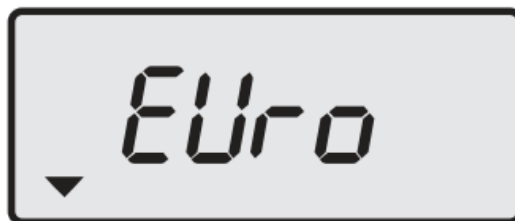
SUM ⚙️ 🔋 €/kg



€



2. Press the € If you have entered the EURO rate before, you will see the previous EURO rate '10' in the unit



Δ ·0· NET



SUM ⚙️ 🔋 €/kg



€



price display.

3. Enter appropriate euro rate. For example, enter €1 = 6.55878 (local currency). To move decimal point press key five time in the total price display. You can't input '0' as EURO rate value



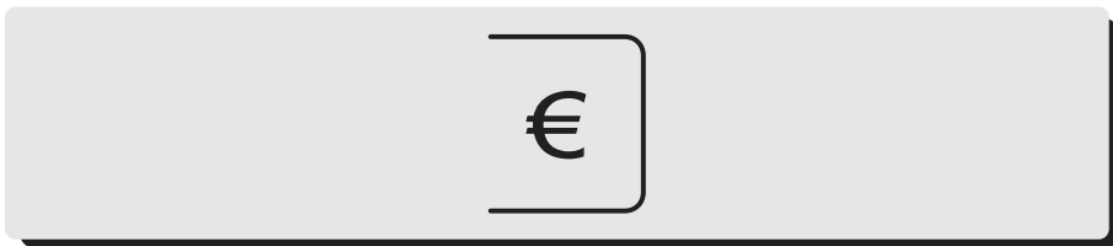
⏏ 0 NET




SUM ⚙ 🔋 €/kg



€



4. Press the  key for a few seconds to save it, then you will go to normal mode.



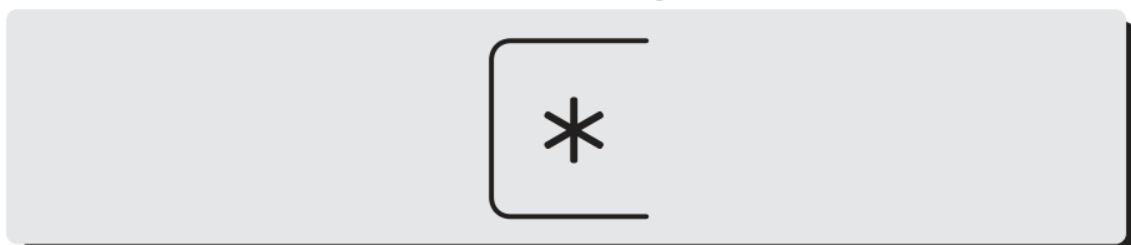
⏏ 0 NET



SUM ⚙ 🔋 €/kg



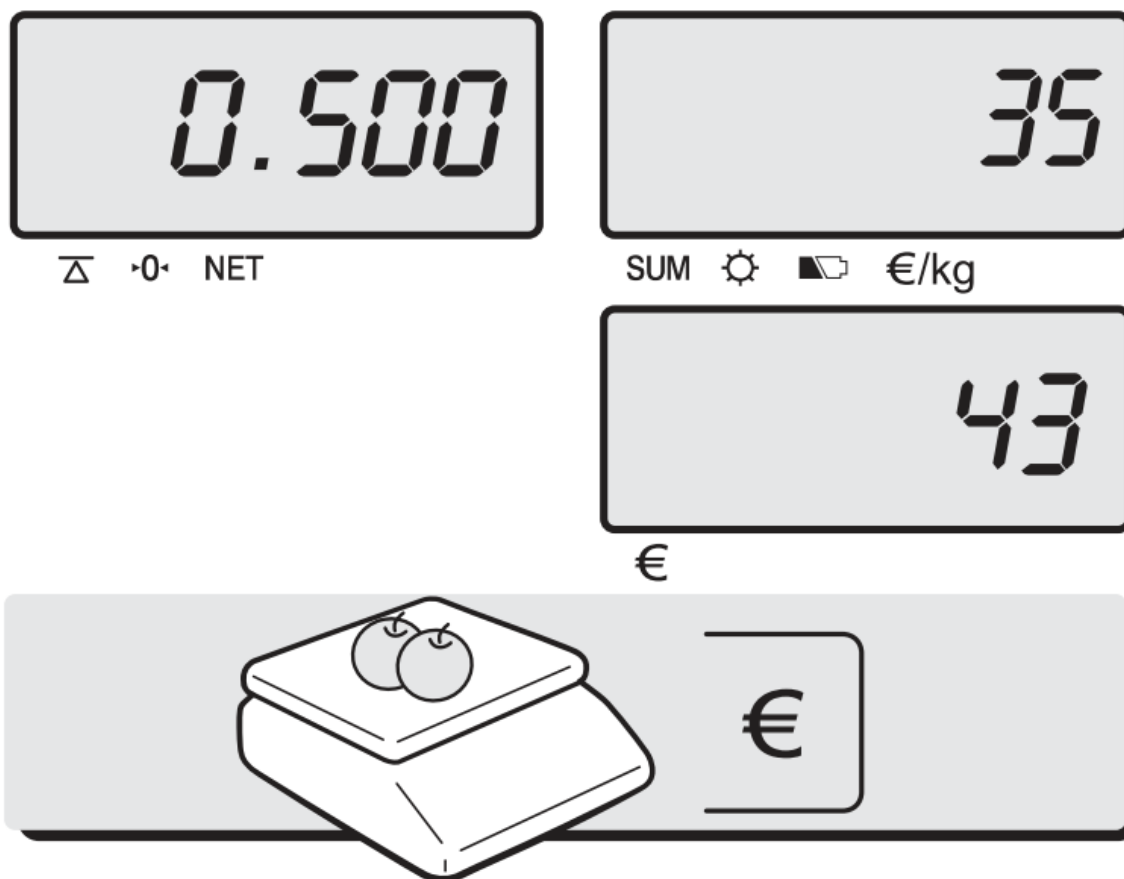
€



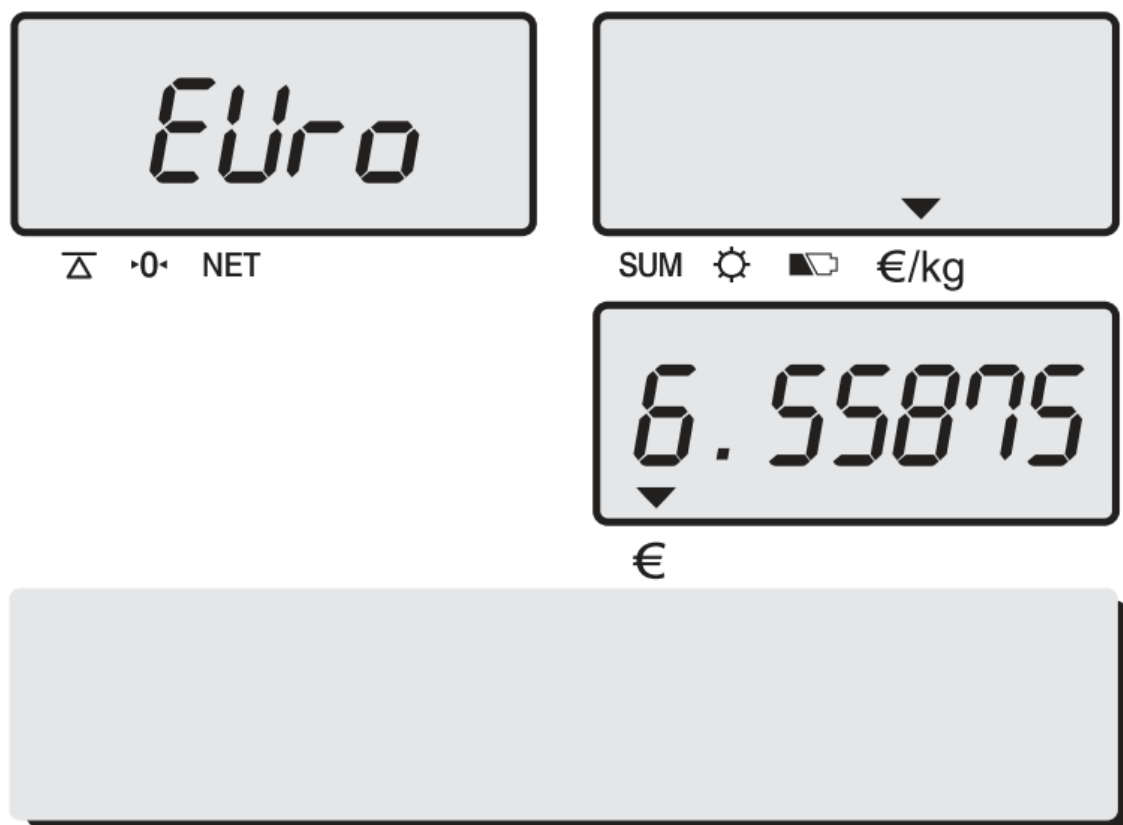
## b. Switching currency

1. Place an item on the platter and press  key in the normal weighing mode





2. You will see the EURO currency rate for 2 seconds and this message is disappeared.



3. Please make sure EURO currency symbol is on.



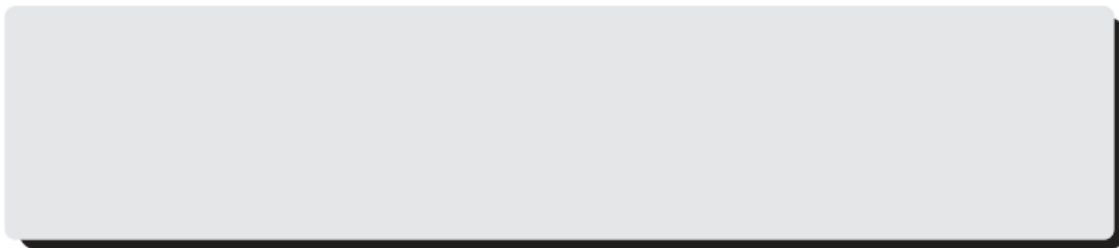
△ 0 NET



SUM ⚙️ 🔋 €/kg



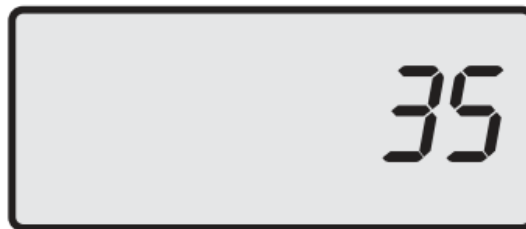
€



4. Remove the item from the platter. and press € key to go back to the normal weighing mode.



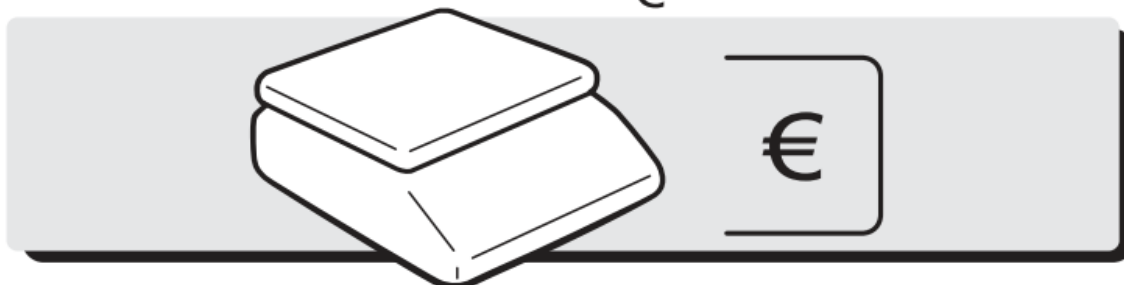
△ 0 NET



SUM ⚙️ 🔋 €/kg



€



- **NOTE** : € 6.55875 € 6.56 in this example  
€ 6.55475 € ≈ 6.55 in this example
- **EURO Conversion Option**
  - PLU Unit price is only available in NON EURO.

- Total Price(TTP Call, DTP Call) is automatically showed in the display that depending on the current unit
- ADD mode is only available when you use EURO or NON EURO currencies separately.

Ex) You could not add 2 items of EURO currency and add another item in NON EURO item in order to do so, after the Total Price Transaction then you would be able to use the NON EURO currency

## ERROR MESSAGES & SPECIFICATION

**Table : Error Message**

Error Message on Display	Description	Solution
<b>“Err 0”</b>	The “Err 0” occurs when scale is not stable.	Remove unstable facts.
<b>“Err 1”</b>	The “Err 1” occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
<b>“Err 3”</b>	The “Err 3” is an overload error.	Please remove the weight.
<b>“Err 4”</b>	The “Err 4” is leakage of payment.	Scale needs more payment.
<b>“Err 5”</b>	The “Err 5” means there is already tare.	Remove the tare.
<b>“Err 6”</b>	The “Err 6” means total price summation is over.	Please change unit price or remove some weight.
<b>“Err 8”</b>	The “Err 8” means Euro rating price is over.	Please change unit price or change euro rate.
<b>“Err 13”</b>	The “Err 13” means the soft key code is broken.	Please try to find out which key lost soft key code and then input this code again.
<b>“Err 15”</b>	The “Err 15” means 1/2 or 1/4 unit price is over.	Please change unit price

**Table: ASCII Code**

HIGH ORDER LOW ORDER	2	3	4	5	6	7	8	9
0	SP	0	@	P	'	p		
1	!	1	A	Q	a	q		
2	"	2	B	R	b	r		
3	#	3	C	S	c	s		
4	\$	4	D	T	d	t		
5	%	5	E	U	e	u		
6	&	6	F	V	f	v		
7	'	7	G	W	g	w		
8	(	8	H	X	h	x		
9	)	9	I	Y	i	y		
A	*	:	J	Z	j	z		
B	+	;	K	[	k			
C	,	<	L		l			
D	-	=	M	]	m			
E	.	>	N	^	n			
F	/	?	O	_	o			

Picture1: Alphabet location on the Keyboard

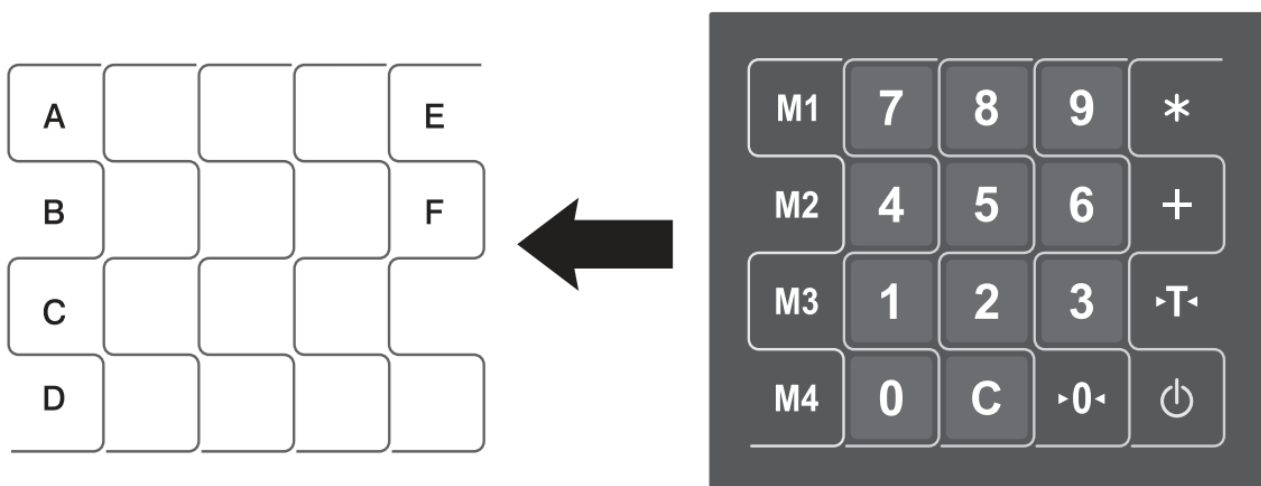


Table : SPECIFICATION

<b>MODEL</b>	<b>ER JR</b>		
<b>CAPACITY</b>	<b>Dual Interval</b> Max 3/6 kg e = 1/2g	<b>Dual Interval</b> Max 6/15k g e = 2/5g	<b>Dual Interval</b> Max 15/30kg e = 5/10g
<b>DISPLAY</b>	5 / 6 / 6 (Weight/Unit Price/Total Price)		
<b>SYMBOL ON DISPLAY</b>	Charge, Stabilization, Zero, Tare, Low battery, Sum, Backlight		
<b>MAXIMUM TARE</b>	– 2.999 kg	– 5.998 kg	– 14.995 kg
<b>OPERATING TEMPERATURE</b>	-10°C ~ +40°C		
<b>POWER SOURCE</b>	12V DC Adaptor		
<b>POWER CONSUMPTION</b>	Approximately LCD Type 7W(Charging)		
<b>PLATTER SIZE (mm)</b>	290(W) x 209(D)		
<b>PRODUCT SIZE (mm)</b>	304(W) x 324(D) x 112(H)		
<b>PRODUCT WEIGHT</b>	3.3kg		
<b>MINIMUM VOLTAGE LEVEL OF THE BATTERY</b>	About 5.6V		
<b>BATTERY LIFE</b>	When battery is charged for 12 hours		
	Approximately 200 hours (backlight off)		
<b>BATTERY TYPE</b>	Pb battery, 6V 3.6Ah/20Hr		
<b>OPTIONS</b>	Pole, Backlight, RS-232C		

- **Notice** : specifications are subject to change for improvement without notice.

CAS BLDG., # 440-1, SUNGNAE-DONG,  
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FAX 822 475 4668  
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Specifications are subject to change for improvement without prior notice.

9002-ER4-0033-2 2008.02



**Documents / Resources**



[CAS ER Series Computing Scale](#) [pdf] Instruction Manual  
ER Series Computing Scale, ER Series, Computing Scale, Scale