

Micro Weighing Scale

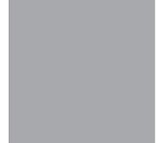
# NEW MW Series

OWNER'S MANUAL



9002-MW4-0033-1

2006.07

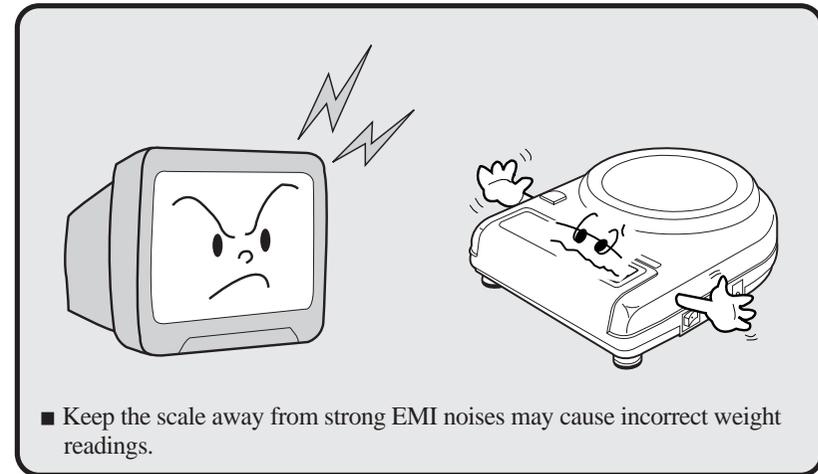
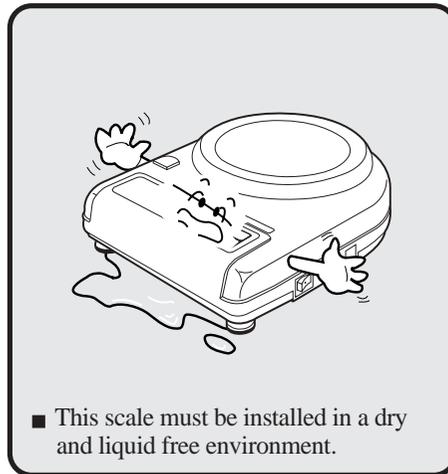
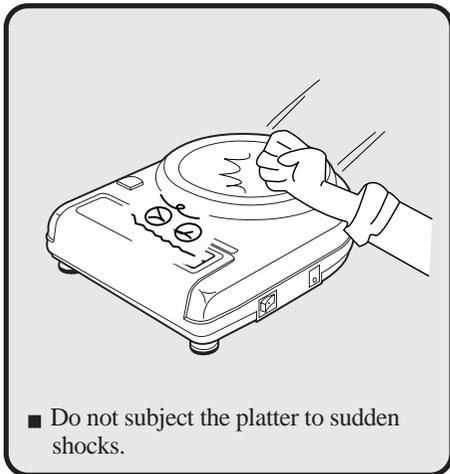
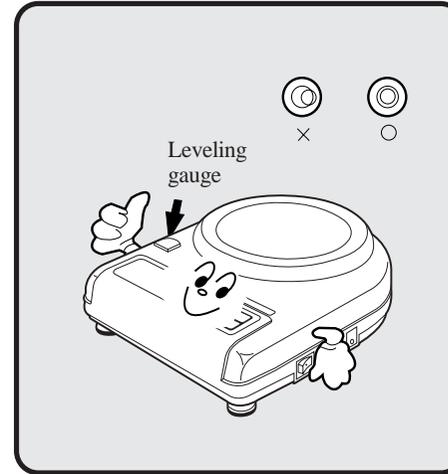
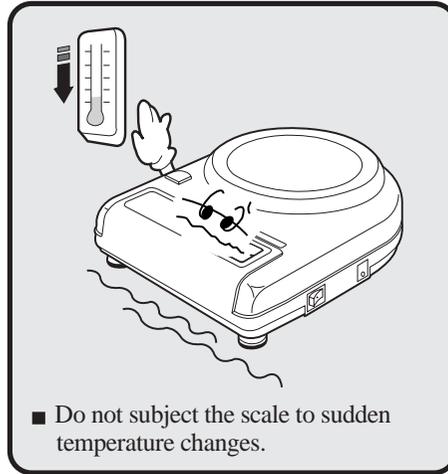
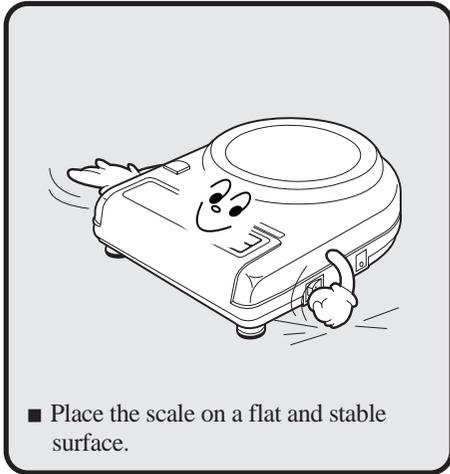


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## PRECAUTIONS

Make sure that you plug your scale into the proper power outlet.  
Plug into a power outlet and turn on 10 minutes before operations.

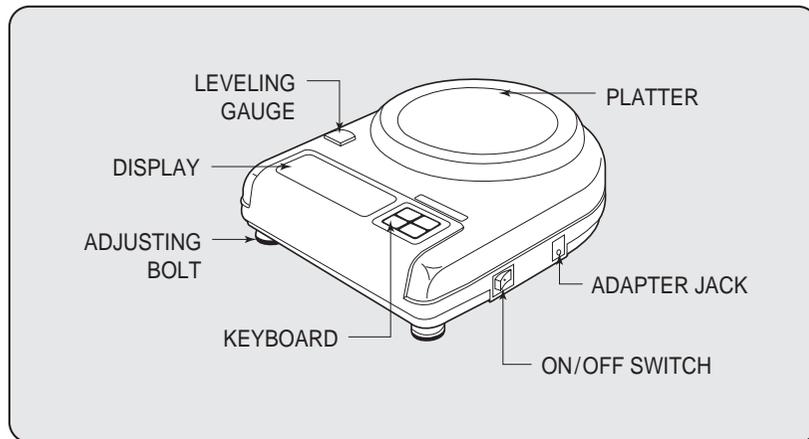


## PREFACE

Thank you for purchasing our CAS MW Series. These series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your specialty departments can enjoy these high quality reliable CAS products. We believe that your needs will be satisfied and you will have proper reliability. This manual will help you with proper operation and care of the MW Series. Please keep it handy for future reference.

## NAMES AND FUNCTIONS

### OVERALL VIEW



- Adapter Jack is a connector to supply power DC 9V/300 mA by using adapter.

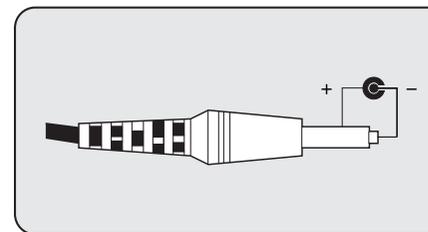
## DISPLAY & KEYBOARD



### FUNCTION

KEYS	FUNCTIONS
<b>ZERO</b>	Used to set the zero point.
<b>TARE</b>	Used to enter a tare weight and used to cancel a tare weight.
<b>UNIT</b>	Used to change the unit of weight.([g] <-> [ct]) (Used to enter the weight of sample in pcs mode and % mode.)
<b>MODE</b>	Used to convert the mode as below. [g] -> [%] -> [psc] -> [g]

## POWER



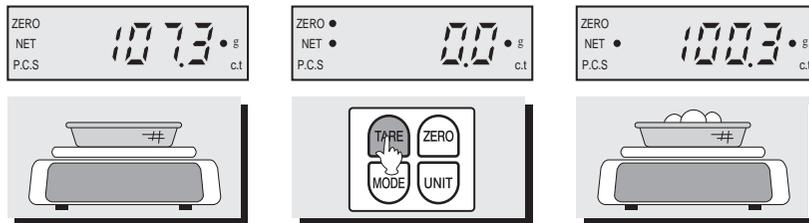
Used only DC 9V/300mA adapter. Insert the adapter jack into the outlet and turn the scale on.

# OPERATIONS

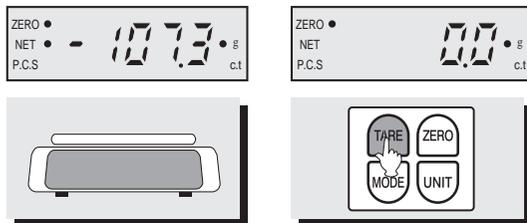
- Turn on the power by pressing ON/OFF switch.
- The display indicates if the scale is at ZERO or if there is a TARE entered into the scale by way of a ZERO and TARE lamps.
- When the display is not zero though there is nothing on the platter, press the ZERO key.
- This scale has counting mode and weighing mode. To change the mode, press the MODE key.  
Make sure that “g” lamp is on in the weighing mode and “P.C.S” lamp is on in the counting mode.

## 1. Weighing with Tare

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



- ① Place the container on the platter.
- ② Press the TARE key.
- ③ Place a sample in the container.

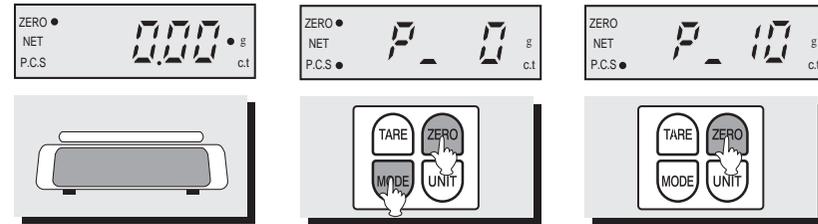


- ④ Remove a sample and container from the platter.
- ⑤ Press the TARE key.

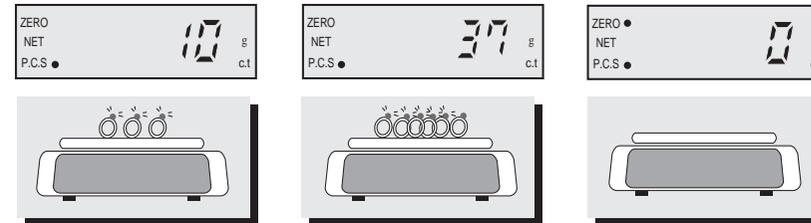
▶NOTE: In case of MW-200N, decimal point position should be changed as “0.00”.

## 2. PCS Mode

- Counting function is where you could count the figures by weighing the sample.
- \* Count without using Tare

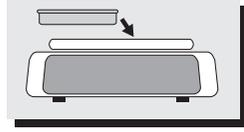
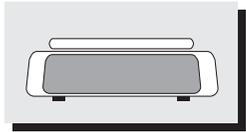


- ① Initial display
- ② Press MODE key twice. When you “PCS ” indicates then press ZERO key then it would proceed as a sample counting
- ③ When you press ZERO key, no of sample could choose gradually from 10 to 500



- ④ For example, No of sample as 10 then press ZERO key and choose “P\_10 ”, then put 10 samples on the scale Press “UNIT ” key select the sample
- ⑤ and then, load all the products you would like to count on the scale, then you could find the results in the display.
- ⑥ after counting, unload the products from the scale and press MODE key then the scale become simple weighing.

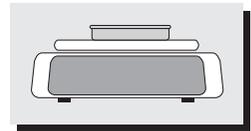
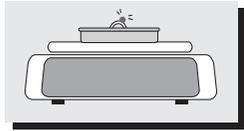
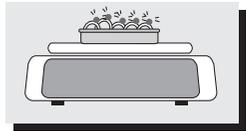
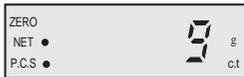
\* Count with using tare



① Press MODE key twice. When you "PCS" indicates then press ZERO key then it would proceed as a sample counting

② First, load the tare on the scale then press TARE key to set for the tare. Tare function works only when "P\_0" status.

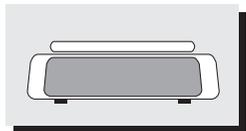
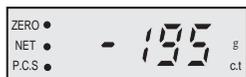
③ Then by using ZERO key, then choose the sampling from 10 to 500.



④ If you have chosen sampling as 20units then load 20units on the scale and press 'UNIT' key for setting the sample figures.

⑤ Load all the products on the scale then you could see the figures in the display

⑥ After counting, unload the all the products off the scale



⑦ Unload the Tare from the scale

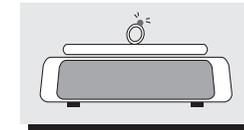
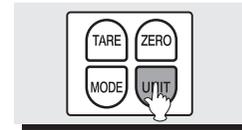
⑧ Press ZERO key then it would convert to P\_0 status then press tare key to cancel the function.

Lack of unit condition

- A. Sampling Weighing Value  $\leq 1/2$  of d  
When Maximum capacity is 2000g : d=0.1g  
When Maximum capacity is 200g : d=0.01g
  - B. weighing measurement  $\leq 2\%$  of maximum capacity
- When "PCS\_M" has showed in the display then it would count with previously saved sampling data .

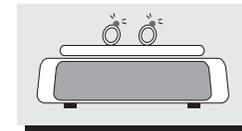
3. % Mode

■ Press MODE key when the display shows "PEr"



① if you could see "PEr" in the display as above , load the sampling on the scale the press 'UNIT' key

② Load one sample for the test counting set as a 100% then unload the sample from the scale.



③ and load the comparison sample on the scale, you could see the % in the display with standard sample VS tested sample.

④ if you would like to compare the standard sample continuously then press "UNIT"

⑤ If you would like to change the mode then press MODE KEY

Reference : the weight of standard sample has to be more than minimum 4g to maximum 200g (maximum capacity 2,000g until minimum 40g)

When "Per\_M" has shown in the display then it would show you the % of current sample comparison where it has previously saved.

#### 4. Changing unit of weight(g , c.t)

- Press the 'UNIT' key in the weighing mode. And then you may select g or c.t as the unit of weight.

#### ERROR MESSAGE

ERROR	DESCRIPTION	SOLUTION
Aderr	Problems on Analog Module	Call your CAS dealer
UNSTA	Unstable Error	Make the scale stable conditions
OFL	Over load Error	Empty the platter and Turn on the power. Do not put something exceeding maximum capacity on the platter.
LACK	Lack of unit Error	Refer to page 11. "lack of unit condition"
Err	Incorrect operation Error	Refer to Manual.

#### SPECIFICATIONS

MODEL	MW Series	
CAPACITY	200 g × 0.01g 1000 ct × 0.05 ct	2000 g × 0.1g 10000 ct × 0.5 ct
MAXIMUM TARE	-160 g -800 ct	-1600 g -8000 ct
DISPLAY TYPE	L.E.D	
DISPLAY UNIT	6 digits	
MEASUREMENT TYPE	LOAD CELL	
TEMPERATURE RANGE	5°C ~ 35°C	
POWER CONSUMPTION	0.3W	
POWER SOURCE	AC 220V, DC 9V / 300mA	
Dimension	185 × 239 × 79 (mm)	185 × 239 × 84 (mm)
Platter Size	99 Ø	135 Ø
Weight	1.2 Kg	

► Notice: Specifications are subject to change for improvement without notice.

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