

RW-5000Z

Vehicle Weighing Scale



CAS

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Caution

- **Safety Caution**

Make sure to comply with the safety cautions as they are designed to prevent dangers in advance by using the products safely and properly.
Cautions are categorized into 2 types, and the significances of ‘Warning’ and ‘Caution’ are as follows.

Warning

Refers to situation that may result in high possibility of substantial danger including death or serious injuries if the directions are infringed.

Caution

Refers to situations that may result in a high possibility of injury or property damage if the instructions are not followed.

Caution

This radio device may receive interference from or cause interference to other radio devices during operation.

Warning

1. Never disassemble, repair or modify.
Such actions will not only exempt the product from warranty but also cause damages to the apparatus, electrocution or fire.
2. Do not damage, process, or excessively pull, bend, or twist the power supply cord.
This may damage the power supply cord and may cause fire or electrocution.
3. Do not place combustible sprays or open flames nearby.
4. Do not expose the exterior of the product to water or use it in humid locations.
This may cause insulation to be deteriorated, thereby causing risk of electrocution or fire, or occurrence of Error in weighing.
5. Do not place the product in direct sunlight or near heat sources such as stoves.
It may cause fire.
6. Make sure the power plug is fully inserted to prevent it from becoming loose.
Unstable contact may cause electrical sparks and result in fire.

1. Introduction

Thank you for purchasing the CAS RW-5000 Series weighing indicator.

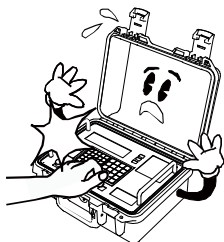
We have designed this equipment with many advanced features, high quality construction, and user-friendly menu driven programming.

We are confident that you will find the CAS RW-5000 Series will meet all of your most demanding needs. CAS indicator is shaped firmly and delicately designed to coincide with the special requirements of several industrial fields and includes many functions and various external interfaces. Also, it contains help display functions to be used easily.

Before using RW-5000 Series, it is recommended to read this manual carefully and to apply the function application fully.

● Precautions

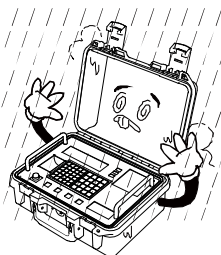
Avoid any excessive force on keys which can be operated with soft touch.



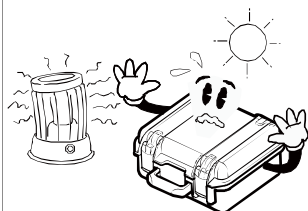
Do not apply any inflammable substance for cleaning.



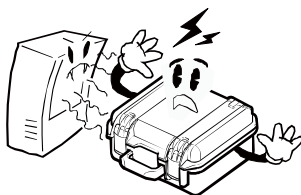
Keep the product from rain.



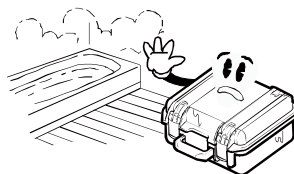
Avoid any place with rapid temperature change, if possible.



Avoid use in a place with high voltage or excessive electric noises.



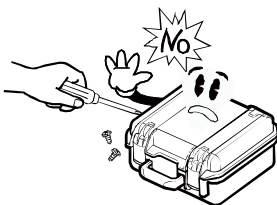
Keep the product in a dry area.



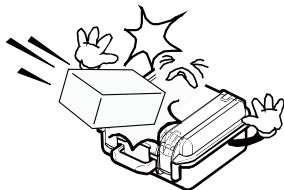
Avoid use in a slant or any place with excessive vibrations.



Do not disassemble, assemble or modify the product arbitrarily.



Avoid any sudden shock.



Our Dealers: CAS feels that each of its valued customers should get the best service available.

Whether it's the initial installation of our product, maintenance/repair work, or simply answering questions about our products, CAS Corporation and all of its Authorized.

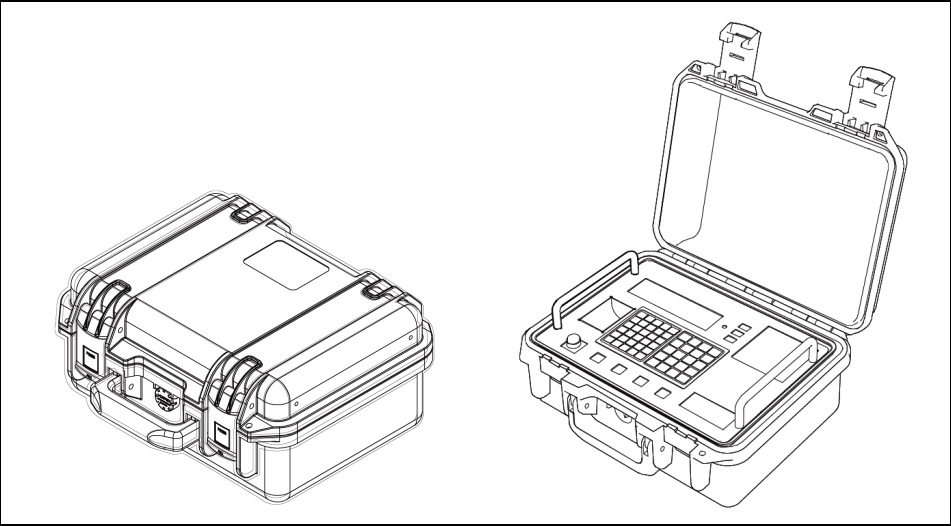
Dealers are highly trained to assist you with any need regarding CAS products.

2. Features

Features
Small and easy to carry the product.
Possible to weigh the axle weight and total weight for any vehicles with 10 axles or less
The built-in Battery in high capacity enable operations with no separate AC power supply.
Easy charging due to the built-in charger.
Possible to store information for 100 vehicles.
Possible to store 10,000 weighing data.
Possible to charge the scale using the power supply for vehicles.
The remaining Battery capacity can be checked out with voltage.

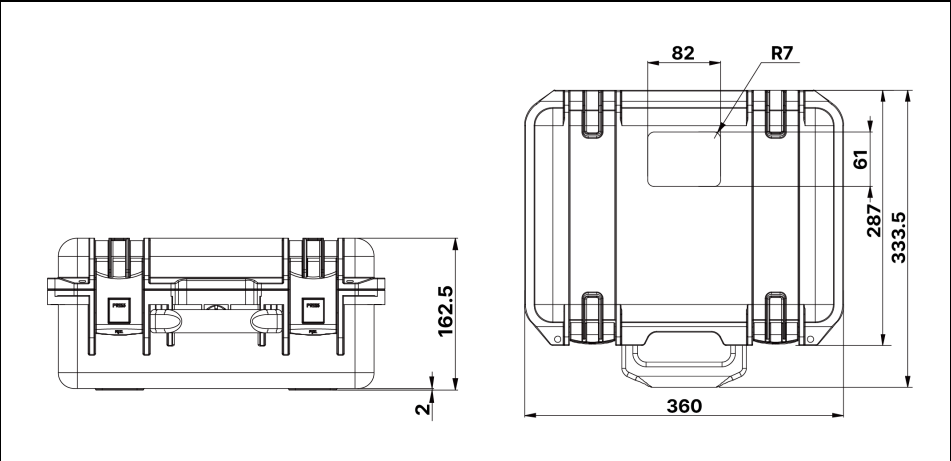
3. Technical Specifications

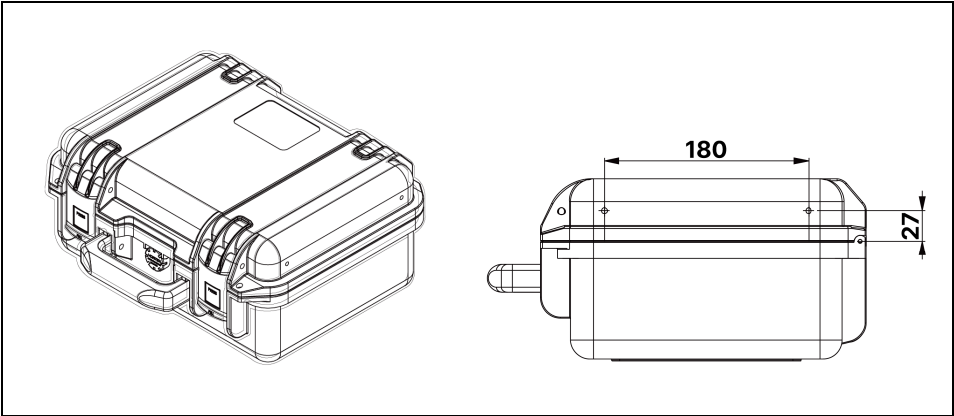
- Overview



* The actual product can be a little different from the above image.

- Dimension

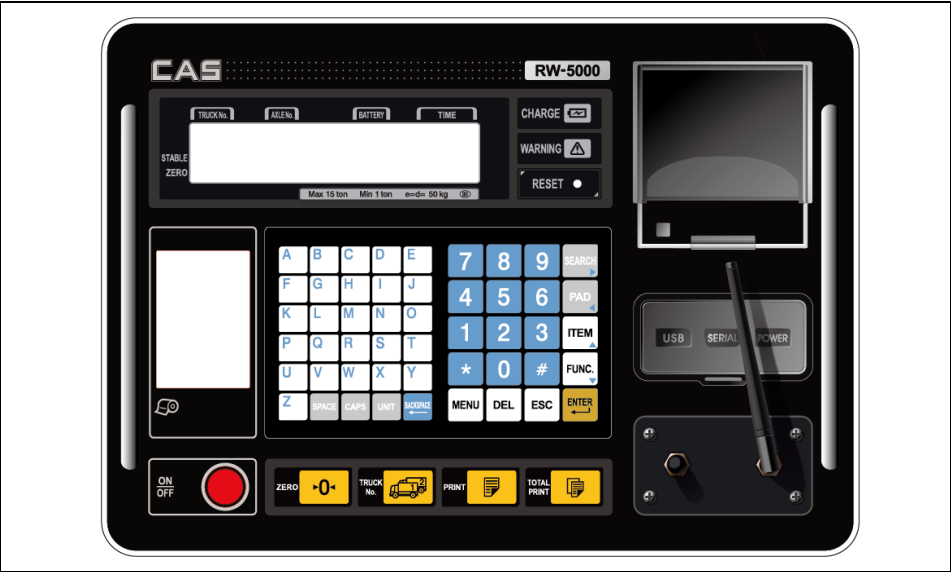




● **Specification**

RW-lite	
Operating power	6 V / 10 Ah lead-acid Battery
Power supply for charging	DC12V adaptor (for Battery charging)
Communication	Bluetooth low energy (BLE 4.0)
Max pad number	8
Temperature range	-10 °C ~ 40 °C
Weight display	Mono graphic LCD
Auxiliary display	Stable, zero
Product weight	6.5kg
Printer	Thermal print
Accessories	Adaptor for charging A copy of user manual A roll of printer paper A piece of shoulder belt

4. Front Panel Description



● Display

DISPLAY	FUNCTIONS
STABLE Lamp	It indicates the measured weight is in a stable condition.
ZERO Lamp	It is turned on when the current weight is 0 kg.
TRUCK No. (Call No.)	Call No. for the current truck
WEIGHING AXLE	Axle No. where the current weighing is being done.
Battery	It indicates the remaining Battery status.
TIME	Current time
ON/OFF	A switch to turn on/off the indicator's power supply.
CHARGING	It indicates the Battery charging condition. (red: charging in progress, green: charging completed)
WARNING	A warning is turned on when the weight exceeds the set value.
RESET	Press it when the indicator's operation is stopped.

● Connection

PORT	DESCRIPTION
Serial	Communication port (9600 BPS) for RS232 and data output
Power	Port for the power supply during the charging or power supply
USB	USB port to use the USB memory functions

● Keypad

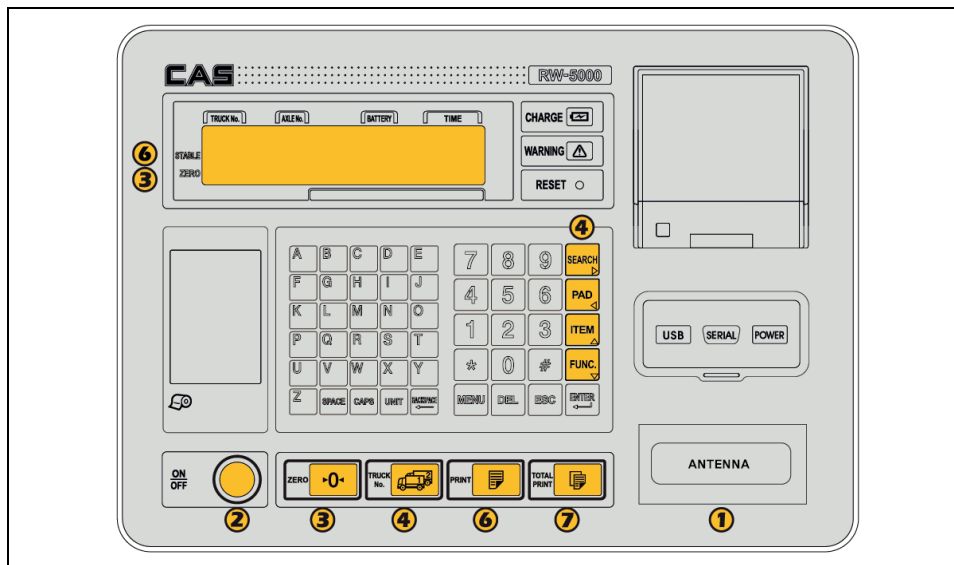
KEYS	FUNCTIONS
Power Key	POWER Key
Zero Key	It sets the current condition to 0.
TRUCK No.	It is used to input or call the truck no.
PRINT	It is used to print the current weight.
TOTAL PRINT	It is used to print the sum of weights.
SEARCH	Used to search saved weighing data.
PAD	Used to check the weight of each connected PAD.
ITEM	Used to select or edit the item name.
FUNC	Used to change the weighing unit in NTEP Mode when F1.7 is set to 1.

● How to Enter Test Mode

Select menu No. 2 after pressing the “Menu” Key at the Weigher Mode.

● How to Enter Set Mode

Select menu No. 1 after pressing the “Menu” Key at the Weigher Mode.



1. Check the antenna connections
2. Turn on the indicator's power switch .
3. Press the ZERO button  to confirm the zero point  if it is not positioned at the zero point.
4. Use  or   arrow buttons to enter a truck number.
5. Position a truck's tires at the axle weigher's center.
6. Press the Print button  when the Stable Lamp  is turned on to the right side of the display.
7. Press the SUM PRINT button  for the total weight printing after weighing each axle's weight by repeating the process in (5) and (6).

5. CAL(Calibration) Mode

What is Cal Mode?

When displaying the weight, it controls the correspondence of the displayed weight and the actual weight.

How to Use Cal Mode

When turned on, press the Number 3 Key to start the Cal Mode.

The message 'CALIBRATION' is displayed.

(RW-5000z receives only the weighing data of each PAD(RW-PLZ). Therefore, you can not set the weight in the indicator)

In the RW-5000Z, only the number of PADs, national code and the display UNIT can be set to the CAL Mode.

CAL Menu

- 1) PAD Number Setting
- 2) National Code Setting
- 3) CAL Unit Setting

1) Pad Number Setting

Function : Pad Number Setting		
Key Used	Display	Description
Number Key ENTER Key ESC Key	Connect PAD Num	Sets the number of PADs to use

2) National Code Setting

Function : National Code Setting		
Key Used	Display	Description
Number Key ENTER Key ESC Key	National Code [0=OIML 1=NTEP 2=KOREA 3=COMMON]	Set the national code to be used. 0 = OIML 1 = NTEP 2 = KOREA 3 = COMMON

3) CAL Unit Setting

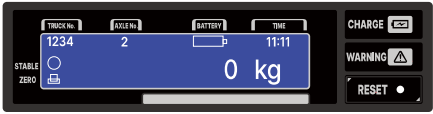
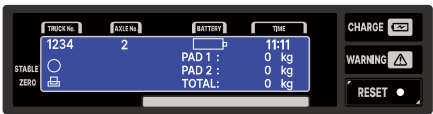
Function : CAL Unit Setting		
Key Used	Display	Description
Number Key ENTER Key ESC Key	CAL UNIT [0=kg, 1=lb]	Set the unit to be used. 0 = kg 1 = lb

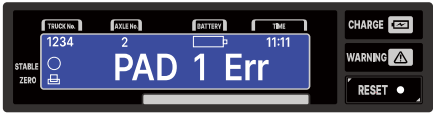
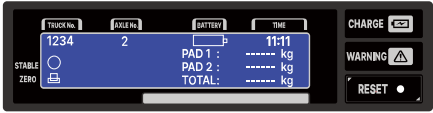
6. Normal Mode

Main Function

- PAD Function
- Zeroing Function
- WIM Function

6-1. PAD Function

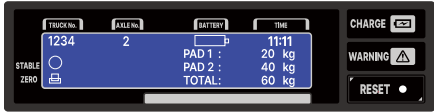
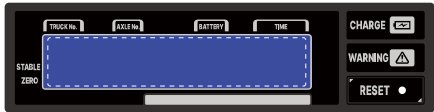
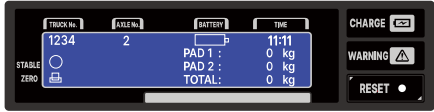
	LCD Display or Used Key	Plate	Description
Step 1		empty	Display the summing weight of the PAD.
Step 2			Push the pad Key
Step 3		empty	Display the each weight of the PAD.

Exception			
Type1		Unable to communicate with the PAD.	
Type 2		Unable to communicate with the PAD.	

- * Check the BLE channel RW-5000Z and RW-PLW PAD. (Both must be same)
- * Make sure the PAD is turned on.

6-2. Zero Function

- Zero range: Operating range for the ZERO Key is designated in RW-PLW – menu [F1.08].

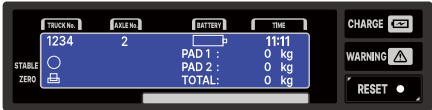
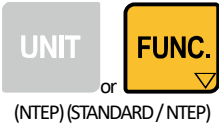
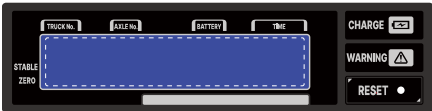
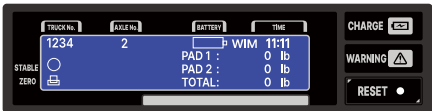
	LCD Display or Used Key	Plate	Description
Step 1		empty	State with zero changed
Step 2			Push the ZERO Key
Step 3		empty	State with wireless communication.
		empty	State after performing zero function. Namely, the current weight is designated as '0' kg.

Exception		
Type1		Unable to communicate with the PAD.

- * Check the BLE channel RW-5000Z and RW-PLW PAD. (Both must be same)
- * Make sure the PAD is turned on.

6-3. Unit Change Function

- It would be operated when function Key is set to the unit change Key[F1.7: 1]

	LCD Display or Used Key	Plate	Description
Step 1		-	State with zero
Step 2			Push the kg/lb or FUNC. Key.
Step 3		-	State with wireless communication.
Step 4		-	The 'unit' currently in use will change from 'kg' to 'lb'.

Exception		
Type1		Unable to communicate with the PAD.

- * Check the BLE channel RW-5000Z and RW-PAD. (Both must be same)
- * Make sure the PAD is turned on.

7. Test Mode

- **How to Enter**

Select No. 2 Test Mode after pressing the “MENU” Key on the indicator’s front.

- **Test Menu (TEST1 ~ TEST6)**

Menu No.	Test item
1	Key Test
2	Display Test
3	PAD AD Test
4	Print & Communication Test
5	USB Test
6	Division Test

TEST 1

Function: Key Test		
Used Key	LCD Display	Descriptions
Any Key: Key test ESC Key: Exit from the current Test Mode.	Key Test Key value : XXX	Press the Key for test To display the code for the Key.

TEST 2

Function: Display Test		
Used Key	LCD Display	Descriptions
Enter Key: Executing test ESC Key: Exit from the current Test Mode.	Display Test	Press ENTER Key for the display test

TEST 3

Function: PAD AD Test		
Used Key	LCD Display	Descriptions
Enter Key: Executing test ESC Key: Exit from the current Test Mode.	PAD1 : xxxxxx PAD2 : xxxxxx	AD value for each PAD is displayed.

Note 1: Examine if this number changes properly while loading and unloading the weight on the load cell.

Check again to see if the load cell is properly connected when this number is fixed or displays 0.

TEST 4

Function: Print & Communication Test		
Used Key	LCD Display	Descriptions
Enter Key: Executing test ESC Key: Exit from the current Test Mode.	Print & Comm. Test Comm = 1, Prt = 2	Communication test = 1 Printer test = 2
	Comm = 1 RX : xx -- TX : xx	

Note1: Run communication Test While the communication program in the computer (ex: Hyper Terminal) is executing after connecting a serial port in the computer to the serial port on the back.

Note2: The output format for the print/serial Test is as follows.

Note3: Check out the connector's connection if the print output is not done as the following format.

CAS Corporation
99 Murray Hill Parkway
East Rutherford
NJ 07073
TEL : +1-201-933-9002

TEST 5

Function: USB Test		
Used Key	LCD Display	Descriptions
Enter Key: Executing test ESC Key: Exit from the current Test Mode.	USB Test	Enter Key: Executing the USB test OK message =USB check & write OK NG message =USB check NG

Note: The test message output is sent to the USB memory.

TEST 6

Function : Dvision Test		
Used Key	LCD Display	Descriptions
ESC Key: Exit from the current Test Mode.	PAD1 : XXX PAD2 : XXX	Cannot be used in NTEP application

*** Calibration Division Test**

8. Set Mode

- **How to Enter**

Select No. 1 Set Mode after pressing the “MENU” Key on the indicator’s front.

- **Keys Used in Set Mode**

▼▲ Key : It changes the display to the next menu.

ENTER Key : It saves the set value.

ESC Key : It exits to the previous step.

- **Set Menu(F1-F4)**

Classification	Menu	Sub Menu
F1. Scale Setting	1	Weighing Speed Setting
	2	Overweight Setting
	3	RS232 Use Setting
	4	Automatic Power-Off Setting
	5	Scale Initial
	6	ADC's Speed
	7	FUNC Key Set
	8	Set Channel
F2. Print Setting	1	Serial Number
	2	Print Usage
	3	Print Format
	4	Paper Space Setting
	5	Message 1 Use
	6	Message 2 Use
	7	Message 3 Use
F3. Print Content Setting	1	Truck No. Print
	2	Item Name Print
	3	Date Print
	4	Time Print
	5	Serial No. Print
	6	Inspector Print
	7	Driver Print
F4. Time Setting	1	Year Setting
	2	Month Setting
	3	Day Setting
	4	Hour Setting
	5	Minute Setting
	6	Second Setting

8-1. Scale Setting

8-1-1. Weighing Speed Setting

Function : Weighing Speed Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Speed of measurement: x	1~9 Can be used Smaller numbers reduce data request cycles

8-1-2. Overweight Setting

Function : Overweight Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Over Weight : xxxxx	Enter the overweight.

* Enter the overweight lower than the maximum weight.

8-1-3. RS232 Use Setting

Function : RS232 Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	RS232 Use[0~3]: x	0~3 Can be used 0: Not used. 1: Continuous output for PAD1, PAD2 2: The same output as the print 3: Continuous output for the total weight

* Communication speed for RS-232C is working on 9600BPS.

8-1-4. Automatic Power-Off Setting

Function : Automatic Power-Off Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Power-off [0~30] : x	This function turns off the power automatically during no use ex) 30: Power is turned off after 30 minute. 0: Disable

8-1-5. Scale Initial

Function : Scale Initial		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Scale initial [0,1] : x	Use it to initialize the set value. 0: Not use. 1: Execute the weigher initializing

8-1-6. ADC's Speed

Function : ADC's Speed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key		Cannot be used in NTEP application

8-1-7. FUNC Key Set

Function : Function Key Set		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Func Key Set [0~1] : x	Sets the FUNC Key 0 : WIM MODE Key 1 : UNIT CHANGE Key

* Default setting is 0(WIM MODE Key).

8-1-8. Set Channel

Function : Channel Set		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Set CH[1~3] : x	Set wireless communication channel 1 : Wireless communication Channel 1 2 : Wireless communication Channel 2 3 : Wireless communication Channel 3

* Default setting is channel 1.

8-2. Print Setting

8-2-1. Serial Number

Function : Serial Number Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Serial Number : xxxx	Enter the desired serial Number. Set to be 1~9999

8-2-2. Print Usage

Function : Print Usage		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Print Usage [0~2] : x	0: Not used. 1: Print when the PRINT Key is pressed. 2: Automatically print when the weight is stable. - Delay Time: Set the delay time (in second) for the automatic print during the continuous weighing.

8-2-3. Print format

Function : Print format		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Print Format [1~2] : x	1: No. 1 format (tire weight + axle weight) 2: No. 2 format (axle weight)

8-2-4. Paper Space Setting

Function : Paper Space Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Paper Space Setting[1~9] : x	Line feed settings. ex) 1: Line feed 9: Line feed

* Feed: It is the paper space after the completion of weighing for a truck.

8-2-5. Message 1 Use

Function : Message 1 Use		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Message1 Use[0,1] : x	0 : Not used 1 : Used

* Message 1~3 : A test input window pops out when "used" is selected.

8-2-6. Message 2 Use

Function : Message 2 Use		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Message 2 Use[0,1] : x	0 : Not used 1 : Used

* Message 1~3 : A test input window pops out when "used" is selected.

8-2-7. Message 3 Use

Function : Message 3 Use		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Message 3 Use[0,1] : x	0 : Not used 1 : Used

* Message 1~3 : A test input window pops out when "used" is selected.

Format 1

CAS Corporation	
99 Murray Hill Parkway	
TEL : +1-201-933-9002	

DATE	: 05.31.21
TIME	: 15:30
Serial No.:	0005
Truck No.:	GG48 GA 5923
Item Name:	Pebble Class 3
-----1-	
Axle	: 3550kg / 3400kg
Subtotal:	6950kg
2-Axle	: 4850kg / 4800kg
Subtotal:	9650kg
3-Axle	: 4650kg / 4700kg
Subtotal:	9350kg
4-Axle	: 4100kg / 4200kg
Subtotal:	8300kg

Total	: 34250kg
LEFT	: 17150kg (50.07%)
RIGHT	: 17100kg (49.92%)
REAR	: 17650kg (51.53%)
Inspector	
Driver	
Automatic Print Mode	

Format 2

CAS Corporation	
99 Murray Hill Parkway	
TEL : +1-201-933-9002	

DATE	: 05.31.21
TIME	: 15:30
Serial No.:	0005
Truck No.:	GG48 GA 5923
Item Name:	Pebble Class 3

1-Axle:	6950kg
2-Axle:	9650kg
3-Axle:	9350kg
4-Axle:	8300kg

Total	: 34250kg
LEFT	: 17150kg (50.07%)
RIGHT	: 17100kg (49.92%)
REAR	: 17650kg (51.53%)
Inspector	
Driver	

8-3. Print Content Setting

- Once selected, the text field is set to 1 (Enable). Preprogrammed text field will show in the display. Enter desired text (up to 32 characters).

8-3-1. Truck No. Print

Function : Truck Number Print		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Truck No. Print[0,1]: x	0 : Not printed 1 : Printed

8-3-2. Item Name Printed

Function : Item Name Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Item Name Print[0,1]: x	0 : Not printed 1 : Printed

8-3-3. Date Printed

Function : Date Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Date Print [0,1] : x	0 : Not printed 1 : Printed

8-3-4. Time Print

Function : Time Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Time Print [0,1]: x	0 : Not printed 1 : Printed

8-3-5. Serial No. Print

Function : Serial Number Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Serial No. Print[0,1]: x	0 : Not printed 1 : Printed

8-3-6. Inspector Print

Function : Inspector Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Inspector Print[0,1]: x	0 : Not printed 1 : Printed

8-3-7. Driver Prin

Function : Driver Printed		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Driver Print[0,1]: x	0 : Not printed 1 : Printed

8-4. Time Setting

8-4-1. Year setting

Function : Year Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Year Setting [0~99] : xx	ex) 00 : 2000 16 : 2016 99 : 2099

8-4-2. Month Setting

Function : Month Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Month Setting [0~12] : xx	ex) 1 : January 12 : December

8-4-3. Day Setting

Function : Day Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Day Setting [1~31] : xx	ex) 1 : 1 day 31 : 31 day

8-4-4. Hour Setting

Function : Hour Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Hour Setting [0~23] : xx	ex) 1 : 1 o'clock 23 : 23 o'clock

8-4-5. Minute Setting

Function : Minute Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Minute Setting [0~59] : xx	ex) 1 : 1 minutes 59 : 59 minutes

8-4-6. Second Setting

Function : Second Setting		
Used Key	LCD Display	Descriptions
NUMBER Key ENTER Key ESC Key	Second Setting [0~59] : xx	ex) 1 : 1 seconds 59 : 59 seconds

9. Truck Data Input/Search

- **How to Enter**

Press the “TRUCK NO.” Key on the indicator’s front.

- **Keys Used**

▼▲ Key: It changes the display to the next menu.

ENTER Key: It saves the set value.

ESC Key: It exits to the previous step.

Truck Data Input	
ID No.: 35	Select the number to save.
Truck No.: GG 2 G 1234	Enter the truck number.

* The truck No. for the call number is displayed when the call number is selected.

* Ex) If GG 2 G 1234 is entered at the ID number 35.

10. Item Name Input/Search

- **How to Enter**
Press the “ITEM NAME” Key on the indicator’s front panel.
- **Keys Used**
 - ▼▲ Key: It changes the display to the next menu.
 - ENTER Key: It saves the set value.
 - ESC Key: It exits to the previous step.

Item Name Input	
Number: 12	Select the number to save.
Name: Pebble class 2	Enter the item name.

* The item name for the saving number is displayed if the saving no. is selected.
* Ex) If Pebble Class 2 is entered at item no. 12

11. Search/Print Function

● How to Enter

Press the “SEARCH” Key on the indicator’s front.

● Keys Used

▼▲ Key: It changes the display to the next menu.

ENTER Key: It saves the set value.

ESC Key: It exits to the previous step.

● Search Menu (1-4)

1: Search By Truck Number

2: Search By Date

3: Search All

4: Delete All

11-1. Search By Truck Number

Enter a Truck Number: Use This to Search for Truck Data With a Truck Number.	
Truck no.: GN M 1234	Enter a truck number for search.
Searching 5 truck data with GN M Output selection: 0~3 : 0	Select the output type for the searched data. 0: No output. 1: Output to the printer. 2: Output to RS-232C communications 3: Output to the USB memory

* Communication speed for RS-232C is working on 9600 BPS.

11-2. Search By Date

Enter Date for Search: Use This to Search Truck Data By Date.	
MM DD YY Date: 10 01 01	Enter a Date for search in the order of month, day and year (Daylight saving time)
Searching 5 Data for 100101 Output selection: 0~3 : 0	Select the output type for the searched Data. 0: No output. 1: Output to the printer. 2: Output to RS-232C communications 3: Output to the USB memory

* Communication speed for RS-232C is working on 115200 BPS.

11-3. Search All

Search All the Stored Truck Data.	
Searching 5 truck data Output selection: 0~3 : 0	Select the output type for the searched data. 0: No output. 1: Output to the printer. 2: Output to RS-232C communications 3: Output to the USB memory

* Communication speed for RS-232C is working on 115200BPS.

11-4. Delete All

Use This to Delete All the Stored Truck Data.	
Delete all?	0: Cancel 1: Delete all

12. Charging and Using Time

- Charge the Battery sufficiently before you use the product after storage for a long time.
- The remaining Battery capacity can be checked from the central top at the display during use. The Battery warning lamp is turned on when the Battery power becomes 5.95 V and the power is automatically turned off when it becomes 5.8 V.
- Charge the Battery if the indicator for the Battery capacity disappears.

12-1. Using and Charging of Chargeable Battery

- A red light on both the power lamp and charge lamp is turned on when the adaptor is connected.
A green light on the charge lamp is turned on when the charging is completed.
- It takes about 12 hours to charge the Battery.
(It is based on the charging when the indicator's power supply is turned off. The time for the indication of complete charging can be late if the charging is done when the indicator's power supply is turned on.)
- The indicator for the complete charging is turned on when the adaptor is connected without Battery.

12-2. Battery Working Hour

Model Name	Conditions	Working Hour or Round
RW-5000Z	General weighing conditions	about 25 hours
	4 axle print in use	100 rounds

Note: The above time is subject to change depending on the period of Battery use.

13. How to Enter Special Characters

- Use This to Enter a Special Character While Entering a Message or Form Name.

Input	Output Char	Input	Output Char
"MENU" Key -> "0" Key	/	"MENU" Key -> "6" Key	—
"MENU" Key -> "1" Key	:	"MENU" Key -> "7" Key	!
"MENU" Key -> "2" Key	.	"MENU" Key -> "8" Key	(
"MENU" Key -> "3" Key	,	"MENU" Key -> "9" Key	)
"MENU" Key -> "4" Key	?	"MENU" Key -> "*" Key	%
"MENU" Key -> "5" Key	-	"MENU" Key -> "#" Key	#

* Use this when you need a special character while entering a truck number or item name.

14. How to Wireless Communication Connection

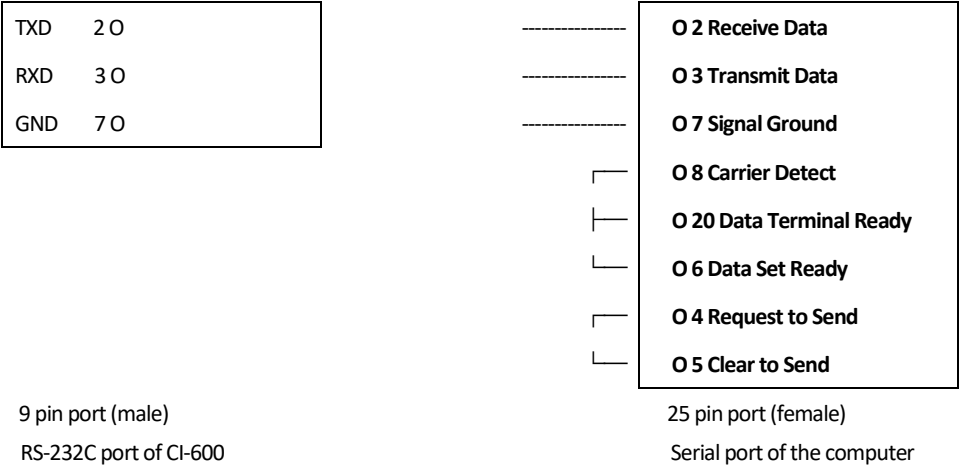
	RW-5000Z	RW-PLW PAD
Channel set	Set Mode -> 1.Scale setting -> 8.BLE Channel set	Set Mode -> 2.BLE setting -> 2.BLE Channel setting
Pad set	Cal Mode -> PAD Num setting	Set Mode -> 2.BLE setting -> 1.PAD Number setting

* It is connected only by Channel and Pad number set.

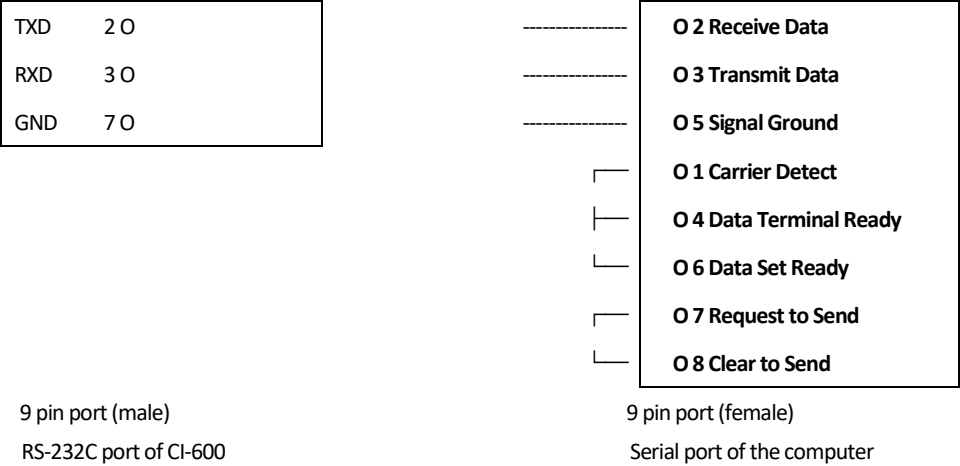
● RS-232C Interface in Detail

RS-232C Port connection

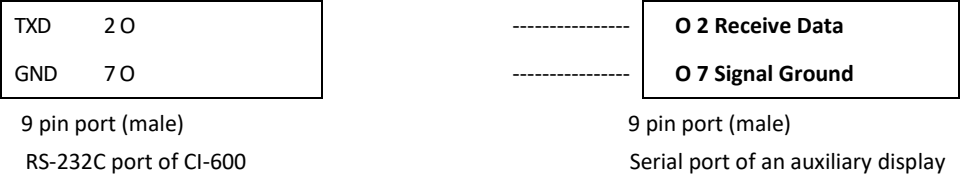
1) COM - TXD: Pin No. 2, RXD: Pin No. 3, GND: Pin No. 7



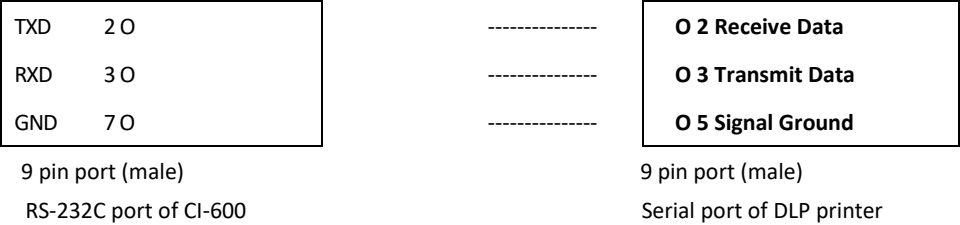
2) COM2 - RXD: Pin No. 2, TXD: Pin No. 3, GND: Pin No. 7 (Option)



3) How to Connect an Auxiliary Display



4) How to Connect a Label Printer (DLP)

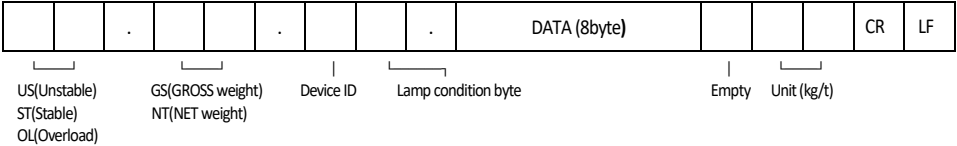


Note. Refer to page 38 (Set Mode) for RS-232C communication and setting method.

* Appendix

● Serial Data Information

1) CAS 22Bytes Format



■ Device ID: Sending 1 byte of device ID to selectively receive the information from the indicator to the receiver.
(Device ID is set in F26.)

■ Data (8 bytes): When the weight date including a decimal, for example, 13.5 kg, 8 bytes of ASCII code corresponding to '0','0','0','0','1','3','.' and '5' are sent.

■ Lamp Status Byte

Bt7	Bt6	Bt5	Bt4	Bt3	Bt2	Bt1	Bt0
1	Stable	0	Hold	Printer	Gross Weight	Tare	Zero Point

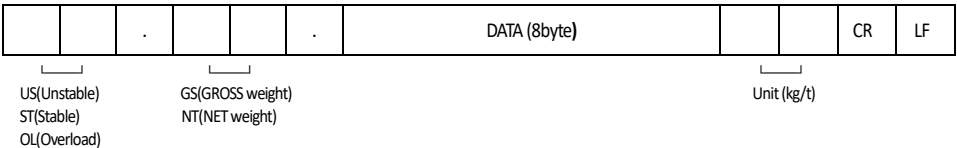
2) CAS 10Bytes

(1) Code: ASCII (2) Transmission data format: (10 bytes)

Data (8 bytes)	CR	LF
----------------	----	----

3) AND 18bytes

(1) Code: ASCII (2) Transmission data format (18 bytes)



* Weight Date (8 byte)

Weight	Byte No							
	1	2	3	4	5	6	7	8
13.5kg	'0'	'0'	'0'	'0'	'1'	'3'	'.'	'5'
135kg	'0'	'0'	'0'	'0'	'1'	'3'	'5'	'0'
-135kg	'-'	'0'	'0'	'0'	'1'	'3'	'5'	'0'

15. Error Messages and Trouble Shooting

Errors That Can Occur From Weigher Mode

Error	Reason	Trouble Shooting
Input value Error	The input value exceeds the possible range.	Check out the input range and enter a proper value again.
Zero Error PAD #	The weight is shaking during zero calibration or the current weight exceeds the range for zero point.	Check out if the load cell is shaking or the weight is out of the zero point range.
PAD Err	The set zero Point was out of the set range during the calibration.	Check out the load cell condition and set the weight setting again.
Over	The current weight on the load cell is too heavy for the weigher's capacity.	Avoid loading any weight exceeding the maximum capacity on the weigher. Replace the load cell if it is damaged.
PAD Error #16	A communication Error occurs from the A/D module.	Try again after 2 seconds.
PAD Error #19	A communication Error occurs from the A/D module..	Try again after 2 seconds.

Err 24

■ Causes for Error
Span is too low.

☞ Trouble Shooting

Set the weight setting again after reducing degradability as the current degradability setting is impossible because there is any abnormality in the load cell or the output for the load cell is too small.

Maximum output for load cell when 5 V is applied.	Recommended degradability
2 mV	1/1,000
4 mV	1/2,000
10 mV	1/10,000

Err 25**■ Causes for Error**

Span is too high.

☞ Trouble Shooting

Check out if there is any abnormality in the load cell or the connection between the load cell and the indicator.

Err 26**■ Causes for Error**

Zero Point is too high.

☞ Trouble Shooting

Check out if the loading tray in the scale is empty.

Set the weight setting again after checking it out from A/D Test Mode.

*** Functions are subject to change without notice to improve the product performance**

MEMO

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RW-5000Z

Vehicle Weighing Scale



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