GW SERIES

MULTI-FUNCTION DIGITAL SCALE

OPERATION MANUAL

PLEASE READ THIS MANUAL VERY CAREFULLY BEFORE ATTEMPT TO OPERATE THE SCALE

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Specifications subject to change without prior

notice

10.APPENDIX

1. INSTALLATION INSTRUCTION

1.1 CHECK AND MAKE SURE THAT THE FOLLOWING ITEMS ARE INCLUDED.

This operation manual Scale x 1 Plastic platter x 1 AC adaptor x 1 Stainless steel platter cover x 1

(option)

 ${\tt Contact your \, dealer \, if \, any \, items \, missed.}$

1.2 PLACING THE PLATTER

- 1.2.1 Place the platter into the scale in longitude or latitude direction preferred. Always place the platter into the scale gently, no excessive force is needed. Then place the stainless steel platter cover (if purchased) onto the plastic platter.
- 1.2.2 The stainless steel platter cover can be fixed permanently to the platter by putting a double side adhesive tape between the platter and the stainless platter cover.
- 1.3 POWER THE SCALE

- 1.3.1 This scale is powered by the built-in rechargeable battery and/ or by a AC adapter included.
- 1.3.2 Check and make sure that the voltage of the AC adaptor supplied matches with the voltage of the main output. Contact your dealer if not.
- 1.3.3 Insert the output plug of AC adaptor firmly into the DC input jack of scale. The DC input jack is located at the left side of scale.
- 1.3.4 Before first time use, charge the built-in rechargeable battery for at least 8 hours or until the charging indicator turns green.
- 1.3.5 For safety reasons, do not share the same
 mains outlet with other apparatus.
- **1.4** Retain all packing material for future transportation of scale.

2. INSTALLATION DIAGRAM



3. SPECIFICATIONS

General Specifications

Model	Capa	acity	Div	ision					
Number	Metric	Pound*	Metric	Pound*					
GW-1500	1500g	3.3 lb	0.1g	0.01 oz					
GW-3000	3000g	6.6 lb	0.2g	0.02 oz					
GW-7500	7500g	16 1b	0.5g	0.05 oz					
GW-15K	15000g	33 lb	1g	0.1 oz					
GW-30K	30000g	66 lb	2g	0.2 oz					
Power	By Built-in Rechargeable Battery								
Source	and /or, AC Adaptor output = $DC9V/$								
	500mA								
Platter	215 x 2	50mm							
Tare Range	Full Ra	nge							
Zero Range	Maximum	= 2% of	Rated Ca	pacity					
Auto Piece	Weight	Enhanceme	ent Range	:					
Minimum = 4	l pieces								
Maximum = 1	100% of 1	max. cour	nts previ	ously					
a	achieved								
Temp. Range	$0 \sim 40^{\circ}$	C (32 ~ 1	$04^{0}F$)						
Options:	Backlig	ht, Stair	less Ste	el Platter					
	Cover,	RS232 and	l Printer	Interface					

*To comply with the law of certain countries, the pound unit may be disabled. Contact your dealer for more information.

Specifications and functions subject to change without prior notice.

4. KEYBOARD LAYOUT



1 KEYS OFF

2

3

4

5

Press this key to turn scale off.

ON/ZERO Press this key to turn scale on or set weight to zero (max. zero range = 2% of rated capacity) or decrease value during function setting.

TAREPress this key to tare off
the weight of a container or
increase value during
function setting.

MODE Press this key to trigger various function or move cursor to right during function setting.

SET Press this key to turn backlight on/off or confirm setting.

6 HI/LO/SAMPLE Press this key to trigger

various function value setting.

- 7 DISPLAY SIGNSZERO STATUS SIGN. When the →0← weigh detected is at true zero, an arrow will appear and point at this sign.
- 8 MINUS SIGN. When the weight detected is below zero, an arrow will appear and point at this sign.

9 TARE STATUS SIGN. When the tare function is being employed, an arrow with appear and point at this sign

10 LOW BATTERY SIGN. When this sign is on, recharge the battery or employ the AC adaptor/AC cord immediately.

11MOTIONThis sign appears whenINDICATORweight detected is not

stable.

- 12 HI INDICATOR This sign will on when weight detected exceeds the upper weight limit.
- 13 GO INDICATOR This sign will on when weight detected falls within the upper and lower limit.
- 14 LO INDICATOR This sign will on when weight detected is below the lower weight limit.

15 FUNCTIONThe function indicatorINDICATORdisplays the function currently being
employed.

16 OTHERS

CHARGE RED: Built-in rechargeable
INDICATOR battery is being
recharged.
GREEN: Rechargeable battery
is completely
charged.
17 RS232/PRINTEROutput port for computer or

Output Port printer interface.

6.1 INTERNAL FUNCTION TABLE

Function	Sym	lbo]	L	Description	Note
1	Fun	- 1	1	Scale configuration	A
				setting and dealer	
				calibration.	
2	Fun	- 2	2	Display segment	
				check.	
3	Fun	- 3	3	Off set value and span	A
				value reading.	
4	Fun	- 4	1	Auto power off	
				setting.	
5	Fun	- 5	5	RS232 baud rate	В
				setting.	
6	Fun	- 6	5	Auxiliary weight unit	A
				setting.	
10	Fun	- 1	10	RS232 protocol	В
				setting.	
11	Fun	- 1	11	RS232 transmission	В
				mode setting.	
12	Fun	- 1	12	Printer transmission	С
				mode setting.	
20	Fun	- 2	20	RS232 data format	В
				setting.	
21	Fun	- 2	21	Printer data format	C
				setting.	
30	Fun	- 3	30	Beep mode setting.	

NOTE:

A For dealer and authorized person only. Inappropriate setting will cause system down. Contact your dealer for more information or service.

6. INTERNAL FUNCTIONS

- B FunctionwhenRS232interfaceispurchased.
- C Function when printer interface is purchased.

6.2HOW TO ENTER THE REQUIRED FUNCTION MODE

6.2.1 Function 1 to 6

- a. Turn scale off.
- b. Press and hold MODE, then turn scale on. Scale displays Fun-1
- c. Press **MODE** until the required function number appears.
- d. Press SET
- e. Press **MODE** until the required setting/ value appears.
- f. Press **SET** to confirm.
- Repeat step c to f for other function setting, or
- j. Press HI/LO/SAMPLE to save settings and return to normal operation.

6.2.2 Function 10 to 30

- a. Turn scale on.
- b. Press and hold **SET** until Fun 10 appears.
- c. Utilize MODE, TARE and ON/ZERO to achieve required function number.
- d. Press SET to enter.

- e. Press **TARE** until the required setting/value appears.
- f. Press **SET** to confirm.
- h. Repeat step c to step f for other function setting, or
- j. Press HI/LO/SAMPLE to save setting and return to normal operation.

6.3Internal Functions Description

- Fun-1 Contact your dealer for more
 information.
- Fun-2 To check all display segment works
 properly.
- Fun-3 Contact your dealer for more
 information.
- Fun-4 To set the Auto Power Off Function. Two modes are available: (Default = 4_OFF) 0_OFF = Auto Power Off Function is disabled. 4_OFF = Scale will automatically turned off after 4 minutes used.

Fun-5 Set RS232 baud rate: 7 rates are
 available:
 300, 600, 1200, 2400, 4800, 9600 and
 19200

Fun-6 Contact your dealer for more
 information.

Fun-10Set RS232C protocol. Two modes are
 available:
 E.7 = even parity, 7 data bit

N.8 = no parity, 8 data bit

Fun-11Set RS232C transmission mode. Three

modes are available:

00 = Key transmission mode. Data is transmitted only when the ON/ZERO is pressed.

> Under this mode, no data will be transmitted if weight detected is less than 2% of rate capacity. Refer to Appendix 1 for minimum weight required.

01 = Auto transmission mode. Data is transmitted when weight detected is stable. Under this mode, no data will be transmitted if weight detected is less than 40 d.

- 02 = Continuos transmission mode. Under this mode, data is continuously transmitted disregarding weight applied or detected.
- Fun-12Set Printer transmission mode. Two
 modes are available:
 - 00 = Key transmission mode. Data is transmitted only when the ON/ZERO is pressed.

Under this mode, no data will be transmitted if weight detected is less than 2% of rate capacity. Refer to Appendix A for minimum weight required.

01 = Auto transmission mode. Data is transmitted when detected is stable.

> Under this mode, no data will be transmitted if weight detected is less than 40 d.

Refer to Appendix A for minimum weight required.

- NOTE: Details of every transaction transmitted will be stored in memory. Press MODE to transmit the total value accumulated to printer.
- **NOTE**: The data stored in memory will be erased:
 - a. when MODE is pressed, or
 - b. when scale is turned off, or
 - c. when weight unit is changed.

Fun-20Set RS232 data format. Three formats

are available:

00 = Format 0 (Default) 01 = Format 1 02 = Format 2 Refer to Appendix B for individual transmission format.

Fun-21Set Printer data format

00 = Format (Default) 01 = Format (Mot available) Refer to Appendix C for printout format.

Fun-30Set Weight Check Beep Mode

Beep 0: No alarm output, (Default)

- Beep 1: Alarm when weight detected falls within the upper and lower limit.
- Beep 2: Alarm when weight detected exceeds the upper limit or below the lower limit.
- Beep 3: Alarm when weight detected exceeds the upper limit.
- Beep 4: Alarm when weight detected is below the low limit.

7.OPERATING INSTRUCTION

7.1 PLACING THE SCALE

Place this scale on a hard and strong enough surface where is free from RF interference, vibration, fire, direct sunlight and excessive moisture. For best weighing result, always place this scale on a level surface. This scale is equipped with a bubble level. If required, adjust the adjustable feet underneath the scale to obtain a level condition.

7.2 POWER ON/OFF THE SCALE

7.2.1To turn scale on, press ON/ZERO.
7.2.2To turn scale off, press OFF.

7.3 BACKLIGHT MODE

7.3.1Turn backlight on

- a. press **SET** during normal operation.
- b. Backlight is turned on.
- NOTE: The backlight function is monitored by a power saving program. Backlight will be automatically turned off after weight displayed is unchanged for about 30 seconds. Backlight will automatically be turned on again by pressing any key or when a new weight is detected.

7.3.2 Turn backlight off

When backlight is on, press **SET** to turn backlight off.

7.4 TARE FUNCTION

- 7.4.1 To Tare Off the Weight of a Container Place a container onto platter, then press TARE to tare off the weight of it. After the TARE is pressed, the tare sign will appear.
- 7.4.2 To Clear the Weight of a Container from Memory

Remove the container from the platter then press TARE. The tare sign will go off indicating no container weight is resided in memory.

7.5 ZERO FUNCTION

If Zero Status Sign does not appear when scale is unloaded, press **ZERO** to reset weight displayed to zero. Refer to general specification table for maximum zero range.

7.6 PLACING LOAD

Always place a load onto the platter gently. Sudden shock, excessive force

or overloading the scale may cause damage to the weight sensor inside. It is a good practice to remove all load from platter when not in used. This would prolong the lifetime of weight sensor.

7.7 WEIGHING FUNCTION

- a. Before weighing, make sure that the Zero Status Sign is on.
- b. Press MODE until the required weight unit appears.
- c. Place subject matter on platter and the weight of it is displayed.

For best weighing result, refer to general specification table for recommended minimum weight to be applied.

7.8 COUNTING FUNCTION

- 7.8.1 Turn scale on. Press MODE until the PCS sign appears. Make sure that the Zero Status Sign is on.
- 7.8.2 Sampling

Sampling is the first step of counting transaction. By means of sampling process, the unit piece weight is obtained. The unit piece weight forms the foundation of quantity calculation.

- a. If a container is used, place the container onto the platter first then press TARE to tare off the weight of it.
- b. Place a sample size with known quantity onto the platter. The number of the sample size must equal to one of the below value:

5,10,20,50,100,200,500or1000pieces

- c. Press **HI/LO/SAMPLE** until 5 PCS appears.
- d. Press **TARE** until corresponding sample number appears.
- e. Press **SET** to confirm. The unit piece weight is obtained and scale is now ready for counting transaction.
- Hint: It is usually true that the more the sample size, the more accurate the subsequent counting result.
- NOTE: For best counting result, refer to general specification table for recommended minimum piece weight.
- NOTE: An error sign will appear if the unit piece weight is less than the feather unitweight.RefertoAppendixEformore

information.

7.8.3 Counting Transaction

Put more subject matter or remove part of the subject matter, the new piece value is shown on the display.

7.9 AUTO PIECE WEIGHT ENHANCEMENT FUNCTION

In order to obtain the best counting result and to avoid sampling error, this scale is equipped with Auto Unit Piece Weight Enhancement function.

This function is resided in memory once the unit piece is obtained by the sampling method as described in 7.8.2.

NOTE: Auto Unit Piece Weight Enhancement Function will be terminated if a zero weight is detected during the transaction process. It is strongly piece weight is unknown or individual piece weight is not standardized.

7.9.1 How Auto Piece Weight Enhancement Function Works.

7.9.1.1After a unit piece weight is obtained by method as described in 7.8.2 then place more/remove some subject matter onto the platter. The new quantity will be shown on the display.

- 7.9.1.2 The Auto Unit Piece Weight Enhancement Function will update the unit piece weight if both of the below requirements are met:
 - a. The quantity added to platter is more than 4 pieces of previous maximum counts previously attained from the same transaction.
 - b. The quantity added to platter is less than 100% of previous maximum counts previously attained from the same transaction.
- 7.9.1.3 If the above requirements are met, a new unit piece weight will be displayed on the Unit Weight window and confirmed by an audio "beep".

7.10 WEIGHT CHECK FUNCTION

This scale is equipped with Weight Check Function. An audio and video signal is generated to reflect the weight check result.

7.10.1 Set Audio Alarm Output

If an audio alarm output is required, enter function 30 and set appropriate parameter. Refer to INTERNAL FUNCTIONS for more information.

7.10.2 Setting Upper and lower Weight Limit

- 7.10.2.1Set Upper Weight Limit
 - a. Press **MODE** until the desired weight unit appears.
 - b. Press HI/LO/SAMPLE.
 - c. The HI indicator appears.
 - d. Utilize **MODE**, **TARE** and **ON/ZERO** to achieve required upper weight limit.
 - e. Press **SET** to confirm.
- 7.10.2.2Set Lower Weight Limit
 - a. Press **MODE** until the desired weight unit appears.
 - b. Press HI/LO/SAMPLE twice.
 - c. The LO indicator appears.
 - d. Utilize MODE, TARE and ON/ZERO to achieve required lower weight limit.
 - e. Press **SET** to confirm.
- **NOTE:** Change of function, (e.g. from weighing mode to counting mode) or

turned scale off will not result in the lost of weight limits set.

NOTE: Weight Check will not function if a weight unit, other than the weight unit used to set the limits, is employed.

7.10.3Weight Check Transaction

Place a subject matter onto the platter. The Weight Check result is displayed on the display.

- The HI indicator will appear when weight detected exceeds the upper weight limit preset.
- b. The GO indicator will appear when weight detected falls within the upper and lower weight limit.
- c. The LO indicator will appear when weight detected is below the lower weight limit preset.
- NOTE: The scale will not display or generate and comparison result/alarm if weight detected is less than 40 d. Refer to Appendix E for minimum weight required.

7.11 PERCENTAGE CHECK FUNCTION

7.11.1 Sampling

Sampling is the first step of Percentage Check function. By means of sampling process, the weight of subject matter at 100% is determined. Follow the below steps for sampling.

- a. Press **MODE** until the % sing appears.
- Make sure that the Zero Status sign is on.
- c. If a container is used, place the container onto the platter first then press TARE to tare off the weight of it. Place the subject matter onto the platter.
- d. Place the subject matter onto the platter.
- e. Press HI/LO/SAMPLE until 100.0% appears.
- f. Press **SET** to confirm.
- g. Scale displays 100.0% and is ready for Percentage Check transaction.
- NOTE: An error sign will appear if the unit piece weight is less than the feather percentage weight. Refer to Appendix E for more information.

7.11.2 Percentage Checking Transaction Add/reduce something to/from the

subject matter, the new relative percentage value will appear on the display.

NOTE: For best checking result, refer to general specification table for recommended minimum load applied.

7.12 COMPUTER DATA OUTPUT (option) FUNCTION

7.12.1 Set appropriate RS232 transmission parameters, i.e. function 5, 10, 11 and 20 to scale. Refer to INTERNAL FUNCTIONS for more information.

7.12.2 Creating a Program File in Computer

- a. Create BASIC computer program file as below to enable the data from scale can be received by computer.
 10 OPEN "COM*:2400**,N,8,2***,CS, DS, CD" AS#1
- Remark:*: Input 1 if the input port of computer is COM 1, or input 2 for COM 2...etc. **: Input the same baud rate as preset through Function 5. ***: Input N,8,2 if parameter input for Function 10 is n.8 ***: Input E,7,1 if parameter input for Function 10 is E.7

- 20 LINE INPUT #1, A\$
- 30 PRINT A&
- 40 GOTO 20
- 50 END
- b. Save the above program file.

7.12.3 Connecting the Scale with a Computer

- Follow the below steps to connect the scale with a computer.
- a. Turn scale off
- b. Turn computer off
- c. Connect the RS232C output of scale to computer by a appropriate data cable.
- d. Turn scale on
- e. Turn computer on
- f. Load and run the BASCIA program file

7.12.4 Computer Data Transmission

- a. Set all the parameters required.
- b. Conduct transaction as usual.
- c. Data will be transmitted to computer according to parameters set.

7.13 PRINTER OUTPUT (option) FUNCTION

7.13.1 Set appropriate printer transmission parameters

(Function 12 and 20) to scale. Refer to

INTERNAL FUNCTIONS for more information.

7.13.2Connecting the Scale with a Computer

- a. Turn scale off
- b. Turn printer off
- c. Connect the printer output of scale to printer by a appropriate data cable
- d. Turn scale on
- e. Turn printer on

7.13.3Print Data Transmission

- a. Set all the parameters required.
- b. Conduct transaction as usual.
- c. Data will transmitted to printer according to parameters set.

7.14 RECHARGING THE SCALE

When the LOW BATTERY sign appears, recharge the scale immediately. Fail in doing so will damage the built-in rechargeable battery.

Scale can be recharged during normal operation. This charge status is displayed by the Charge indicator as below:

a. RED: Recharged battery is being

recharged.

b. GREEN: Rechargeable battery is completely charged.

8.TROUBLE SHOOTING

SCALE CANNOT BE TURNED ON

Check Is the built-in rechargeable **Action**

Check Action	Is a right AC adaptor employed or is it inserted properly both to the wall outlet and into the scale properly? Check AC adaptor and secure both ends of the AC adaptor into the
	wall outlet and DC input of scale.
	ZERO WEIGHT CANNOT BE ATTAINED WHEN TURN ON
Check	Is the platter placed correctly?
Action	Check and insert the platter
Charle	again.
CHECK	Platter?
Action	Remove all load from platter. Turn scale off and turn on
	again.
Check	Is the scale affected by air flow , vibration of RF interference?
Action	Place scale away from all
	disturbances and try again.
	RATED CAPACITY CANNOT BE ATTAINED
Check	Is anything obstructing the platte
Action	Remove all obstacles between platter and scale.
	SCALE DISPLAYS 00000

Check Action Check Action	check again. Is the platter insert correctly into the scale? Take out the platter and insert again. Is the stainless steel platter (if purchased) place onto the platter? Place the stainless steel platter onto the plastic platter.
	SCALE DOES NOT WEIGH CORRECTLY
Check	Is the right weight unit employed?
Action Check	Select the correct weight unit. Are the minimum weight applied to scale?
Action	Refer to Appendix F for recommended minimum load applied and try again.
Check	Is the scale placed on a level surface?
Action	Check the bubble level and adjust the adjustable feet to obtain a level condition.
Check	Is the scale affected by air flow , vibration or RF interference?
Action	Place scale away from all disturbances.
Check	Is the scale calibrated correctly ?

Is the scale overloaded?

Remove all load on platter and

Check

Action

Action Contact your dealer.

Check

Action

SCALE DOES NOT COUNT CORRECTLY Is the right sample size employed during sampling process? Repeat the sampling process and try again.

- Check Is the sample size employed during sampling process too small?
- Action Increase the sample size, repeat the sampling process and try again.
- Check Is the scale placed on a level
 surface?
 Action Check the bubble level and adjust
- the adjustable feet to obtain a level condition.
- **Check** Is the scale affected by air flow, vibration or RF interference?
- Action Place scale away from all disturbances.
- **Check** Is the scale calibrated correctly?
- Action Contact your dealer.
- **Check** Is the Auto Unit Piece Weight Enhancement function being employed?
- Action Repeat the sampling process. Conduct counting transaction according to all procedures as listed on paragraphs 7.8 and 7.9.

SCALE TURNED OFF AUTOMATICALLY

- Check Is the AUTO POWER OFF function employed?
- Action Disable the AUTO POWER OFF function.

Check Is the LOW BATTERY sign on?
Action Recharge the battery or employed
the AC adaptor.

DATA TRANSMISSION ERROR

- **Check** Are all transmission parameters set correctly?
- Action Set all parameters according to INTERNAL FUNCTIONS.
- **Check** Is the minimum required weight obtained/applied?
- Action Refer to Appendix A for minimum weight requirements?
- **Check** If both end of the cable linking scale and computer/printer firmly secured?
- Action Secure both end firmly.
- **Check** Is a right data cable used?
- Action Contact your dealer or hardware engineer.
- **Check** (For RS232 output) Is the BASICA Program file written correctly?
- Action Refer to the operation instruction and check program file is correctly written?
- **Check** Is the BASICA program file (RS232 output only) loaded and run?
- Action Run and load the BASICA program file.
- 9.DAILY CARE AND MAINTENANCE
- 9.1 Avoid exposing scale to direct sunlight or excess moisture.

- **9.2**Do not lift/move scale by holding the platter.
- 9.3Do not submerge scale into water.
- **9.4**Take platter away from scale before transportation.
- 9.5Clean the scale with a soft and damp cloth, if necessary with a mild detergent.
- 9.6Do not use any harsh, abrasive material, violate solvent thinner or alcohol for cleaning.
- 9.7Verify the accuracy of scale periodically.
 Re-calibrate the scale when needed.
- NOTE: In some countries, calibration is restricted to be done by qualified or authorized agent only. Contract your dealer for more information.
- 9.9Store scale in a dry and cool place.

Appendix A

Minimum Weight Requirements of Function 11 and Function 12

Model No.	Minimum Weigh	nt Required for
	Mode 00	Mode 01
GW-1500	3g	4g
GW-3000	бg	8g
GW-7500	15g	20g
GW-15K	30g	40g
GW-30K	60g	80g

Appendix B

RS232 Data Format of Function 20

Format	00	(Default)
--------	----	-----------

S	Т	,			1	0	0	•	0	5			g	CR	LF
Ро	sit	io	n c	ode	9										
1	2		3	4	5	6	7	8	9	10	11	12	13		

Format 01

U	S	,	I			1	0	•	0	5		g	,	G	CR	\mathbf{LF}
Рc	sit	cic	n	Coc	le											

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Format 02

+		1	0	0	•	0	5	CR	LF
Posi	itior	ı Co	de						
3	4	5	6	7	8	9	10		
Posi	Position Code Definition:								

1 2

=Weight Status:

ST=Stable

RS=Not stable

3

- = Polarity of value (Plus or Minus)
 - + or blank = positive value
 - = Negative value

4 5 6	7 8	9	10
-------	-----	---	----

=Value of weight, pieces or percentage

12 13

=Unit

- kg = kilogram
 g = gram
 pc = pieces
- · · ·
- % = percentage

14

- = Weight check result
 - H = Weight detected over upper limit.

 - L = Weight detected below lower limit.

Appendix C

Printout Format of Function 21

Format 00 (Default)

S/N	Unit		(Note A)
0001.	10.00	L	
0002.	20.00	G	(Note B)
0003.	30.00	Н	
0003/	60.00		(Note C)

NOTE A: S/N = Sequence Number

Unit = The current function being employed e.g, k.g, g, lb, pc, or %.

NOTE B: Weight check result:

L = Weight detected below lower limit.

G = Weight detected falls within upper and lower limit.

H = Weight detected over upper limit. The weight check result will only appear on printout when the weight check function (Function 30) is employed. Set parameter of function 30 to 1, 2, 3 or 4 in order to display the weight check result to printout.

NOTE C:Accumulated result of previously transactions.

Appendix D

Minimum Weight Required for Weight Check

Function

Model No.	Minimum Weight					
	Required					
Gw-1500	4g					
GW-3000	8g					
GW-7500	20g					
GW-15K	40g					
GW-30K	80g					

Appendix E

Feather Weight of Counting and Percentage Check Function

Model No.	Feather Unit	Feather 100%	
	Piece Weight of	Weight of	
	Counting function	Percentage	
		Check	
		function	
Gw-1500	0.075g	30G	
GW-3000	0.15g	60g	
GW-7500	0.375g	150g	
GW-15K	0.75g	300g	
GW-30K	1.5g	600g	

Appendix F

Recommend Minimum Weight for various applications

Model Recommended Minimum

No.	Piece Weight	Load Applied	100%
			Weight
Gw-1500	0.1g	2g	75G
GW-3000	0.2g	4g	150g
GW-7500	0.5g	10g	375g
GW-15K	lg	20g	750g
GW-30K	2g	40G	1500g