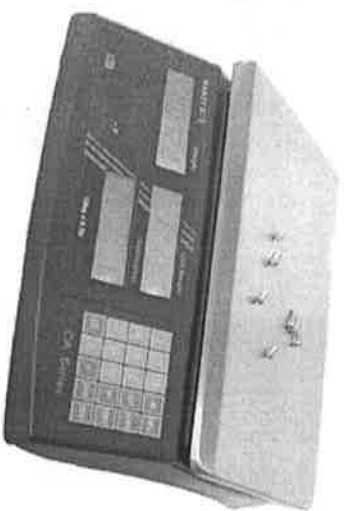


CA Series

Counting scale

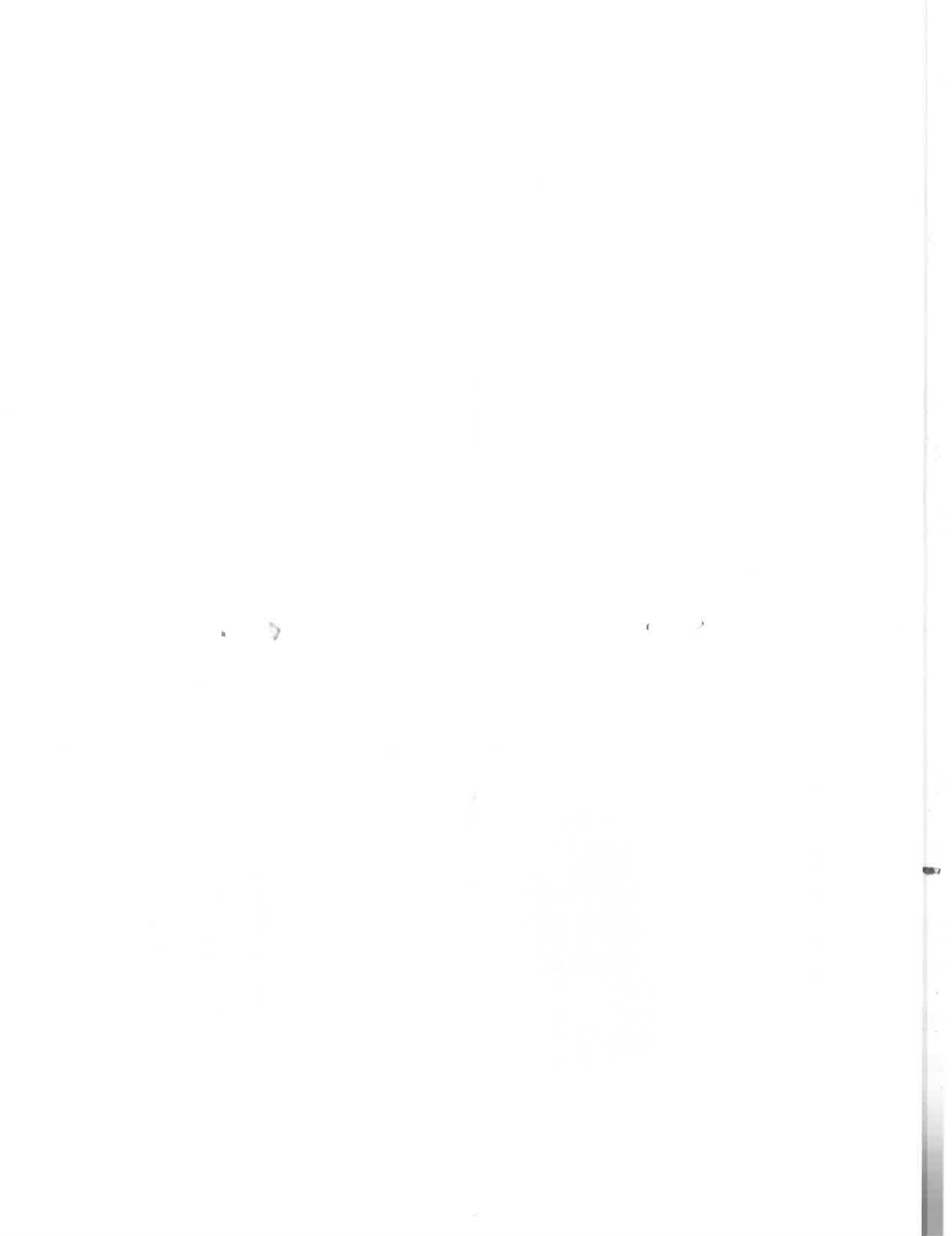
User's Guide

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



August 2010

Specifications subject to change without prior notice



CONTENTS

- 1. INSTALLATION**
- 2. SPECIFICATIONS**
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- 9. ERROR CODES**
- 10. DAILY CARE AND MAINTENANCE**

Appendix A: -

About Bi-Directional Communication

1. INSTALLATION

Because of metrological legislation, installation/some metrological parameter settings are limited to be done by authorized personnel only. Do not attempt to change any of the built-in metrological parameters. Contact your dealer for more information and technical assistance.

CAUTION:

The instrument is legal for trade only when it is sealed (and/or stamped) and bearing a serial number. Do not attempt to break the seal (or stamp) affixed to the instrument or remove the serial number. Contact your dealer for more information and after sales service.

To ensure performance accuracy, do not use the instrument in where or when the environment condition falls beyond as those listed on **SPECIFICATIONS**.

Do not attempt to open the instrument, no user serviceable parts inside.

Appendix A: -

About Bi-Directional Communication

Computer commands can be sent to this instrument through any standard communication program like Hyper Terminal which comes with Windows 2000 and Windows XP.

Equivalent commands from computer are illustrated on below table for each of the key on panel.

Key on Instrument Panel	Equivalent to Computer Command
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
.	.
(Decimal)	(Decimal)
ZERO	A
TARE	B
# SET	C
CHECK	D
CE	E
@WT	F
PRINT	G
UNIT	H
M+	I

10. DAILY CARE AND MAINTENANCE

- Clean the instrument with a soft, damp cloth. If necessary, use a mild detergent in Cater,
- Do not use any harsh, abrasive material, acetone, volatile solvent, thinner or alcohol for cleaning,
- Verify the accuracy of this unit periodically. Re-calibrate this unit if necessary. In some countries, calibration requires authorized / qualified agent. Contact your dealer for more information,
- Store this unit in a dry and clean place,
- Recharge battery before and every 2 months during long time storage.

2. SPECIFICATIONS

2.1 GENERAL SPECIFICATIONS

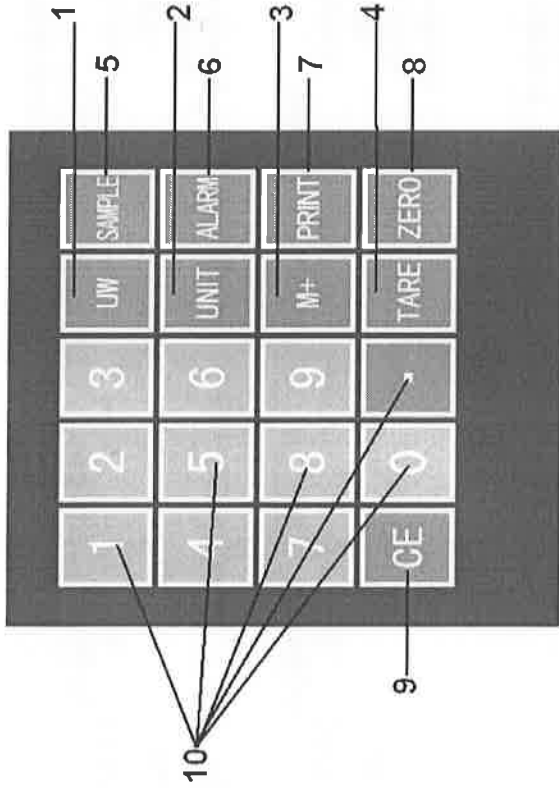
CA300 Series(resolution 1:300000; unit :kg,lb,g,oz)				
Model#	CA300-3	CA 300-6	CA300-15	CA300-30
Max Capacity	3kg	6kg	15kg	30kg
Readability	0.1g	0.2g	0.5g	1g

CA600 Series(resolution 1:600000; unit :kg,lb,g,oz)				
Model#	CA600-3	CA 600-6	CA600-15	CA600-30
Max Capacity	3kg	6kg	15kg	30kg
Readability	0.05g	0.1g	0.2g	0.5g

Common Specification

Interface	RS232
Stabilisation time	2 second typical
Operating temperature	0°C - 40°C / 32°F - 104°F
Power supply	220-240V AC (110V optional) 50/60Hz built-in rechargeable battery 6V4AH.
Display	3 windows 6 digits 0.8"LCD display. and 11 status indication
Zero range	0mV~8mV
Housing	ABS housing and Stainless steel pan(230*290mm)
ADC	Σ - Δ
External Resolution	1/300000; 1/600000
Interface	RS-232 Output
Other function	Real-time clock and units conversion (kg,lb,oz,g)

3. KEYS, DISPLAY AND CONNECTIONS



1. UNIT PIECE WEIGHT SET KEY

Press this key to confirm the unit piece weight entered by numeric keys.

2. WEIGHT UNIT KEY

Press this key to shift among various weight units.

3. M+ KEY

Press this key to accumulate the current quantity to memory or to recall the accumulated total quantity when unloaded.

4. TARE KEY

Press this key to tare off the weight of a container.

5. SAMPLE QUANTITY SET KEY

Press this key to confirm the sample size (pieces) entered by numeric keys.

6. CHECK KEY

Press this key to set upper & lower quantity check limit and to trigger the quantity check mode.

9. ERROR CODES

Error Code No.	Description
Err 1	Time value error
Err 2	Date value error
Err 3	Exceed maximum manual zero range
Err 4	Offset out of range / unstable during power on
Err 5	No load cell signal detected
Err 6	Tare operation error
Err 7	Logic error. HI limit set is lower than LO limit (and HI is not = 0)
Err 8	Logic error. LO limit is higher than HI limit (and HI is not = 0)
--oL--	Overload (Gross weight is more than Max plus 9d)
UndEr	Under load (Gross weight is less than minus 20d)

8. BATTERY POWER AND RECHARGING

Remaining battery power of the built-in rechargeable battery is displayed on the **Battery Power / Level Indicator**.

8.1 SYMBOLS AND REMAINING POWER: -


- Full Battery: $\geq 6.3V$
- 2 Blocks: $\geq 6.0V$
- 1Block: $\geq 5.7V$
- Frame only: $< 5.7V$

8.2 BATTERY OPERATION TIME

Depends on the battery condition, a fully charge new rechargeable battery will usually give: -

- Around 200 hours of continuous operation without backlight, or
- Around 70 hours of continuous operation with backlight on, or

8.3 RECHARGE BATTERY

When  appears, (when battery is less than 5.7V), it means the built-in rechargeable battery is at low voltage status. It is recommended to recharge immediately.

To protect the built-in rechargeable battery, the instrument will power off automatically when battery voltage is at extremely low level (when battery is at around 5.4V). Do not attempt to power the instrument on. Recharge the instrument immediately. Fail in doing so may cause unrecoverable damage to the built-in rechargeable battery.

Battery charging status is shown on the dual color **Charge Status Indicator**:

- Red: - Recharging in process,
- Green: - Charging is completed.

Battery recharge is possible while instrument is in operation. Overcharge protection circuit is built inside to prevent battery damages caused by overcharge.

Heat will be generated during recharging and it is normal to feel minor heat at front panel of the instrument.

7. PRINT KEY

Press this key to send print data to a printer.

8. ZERO KEY

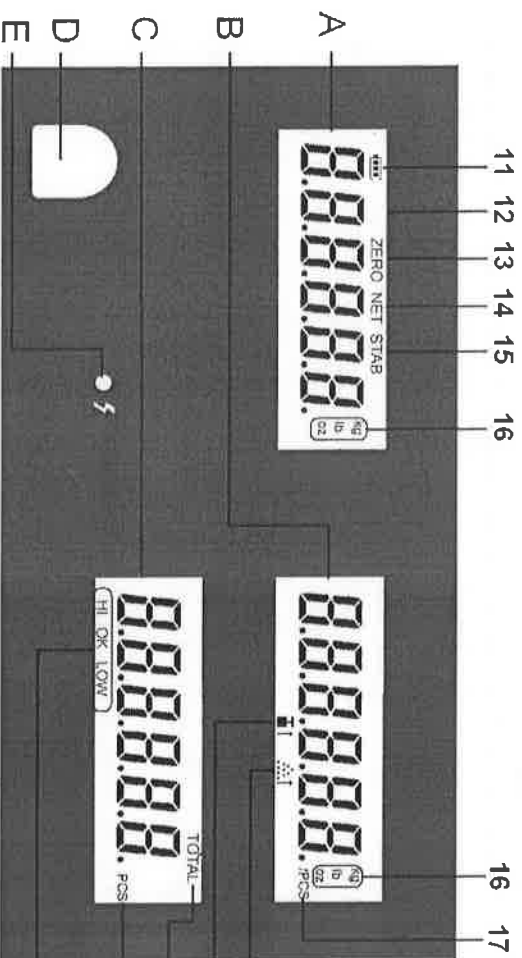
Press this key to set weight displayed to zero when an empty scale has drifted aCay from a true zero reading.

9. CE KEY

Press this key to clear value entered.

10. NUMERIC KEYS

Numeric keys 0 ~ 9 and decimal key.



11. BATTERY POWER / LEVEL INDICATOR

This indicator appears to show:-

- The instrument is running on the built-in rechargeable battery,
- It shows the remaining battery level.

12. SPARE

No assignment.

13. ZERO INDICATOR

Visible when instrument at true zero weight status.

14. NET INDICATOR

Visible when tare function is in effect. The weight being shown on **Weight Panel** is net weight.

15. STABLE INDICATOR

Visible when weight reading is stable.

16. WEIGHT UNIT INDICATOR

kg = kilogram, g = gram, lb = pound

17. UNIT PIECE WEIGHT INDICATOR

The value left to it is the unit piece weight. This indicator remains visible during normal operation status.

18. INSUFFICIENT SAMPLE WEIGHT CARNING INDICATOR

Visible when total weight of the sample size is below satisfactory level. If possible, increase the sample quantity unit this indicator disappears.

19. INSUFFICIENT UNIT PIECE WEIGHT CARNING INDICATOR

Visible when the unit piece weight of the sample is below satisfactory level. If possible, increase the sample quantity.

20. TOTAL INDICATOR

Visible when total accumulated quantity is being displayed.

21. QUANTITY INDICATOR

The value left to it is the quantity of the current transaction. This indicator remains visible during normal operation status.

22. QUANTITY CHECK RESULT INDICATORS

- HI = Quantity is higher than the HI limit set.
- OK = Quantity is in between than the low and HI limits set.
- LO = Quantity is lower than the LO limit set.

Standard Printout Sample

TIME	12:08:57
DATE	07.08.2010
No.	0
TARE	2.000kg
GROSS	6.000kg
NET	4.000kg
UNIT WT.	0.5 g
Q'ty	PCS
HIGH	5000PCS
LOW	4500PCS
HIGHER	THAN LIMIT

Description

1. Time of printing,
2. Date of printing,
3. M+ sequent number¹⁶
4. Tare Weight,
5. Gross Weight,
6. Net weight,
7. Unit piece weight,
8. Quantity,
9. One blank line,
10. One blank line,
11. HI limit set**
12. LO limit set**
13. Quantity Check result**

Totalized Accumulated Printout Sample

TIME	13:48:23
DATE	07.08.2010
No.	4
TOTAL	14997PCS

Description

1. Time of printing,
2. Date of printing,
3. Total No. of transaction
4. Total accumulated quantity

¹⁶ When this transaction is accumulated to memory.

** Visible when quantity check function is in effect.

	space.
14	COMMA SEPARATION
15~16	UNIT kg = kilogram g_ = gram (_ = blank space) lb = pound
17	Cr
18	LF

7.2 PRT (PRINTER) MODE

7.2.1 Printing Current Transaction

A standard printout as will be sent through the RS232 Comport when [PRINT]¹⁴ is pressed. Refer to **Standard Printout Sample** on next page for description.

Number of copies sent = the number of copy set in internal function F8. Refer to **5 INITIAL SETUP** for more information. If extra copies are needed, press [PRINT] again.

7.2.2 Printing the Totalized Accumulated Result

Follow the below steps for to print the totalized accumulated result: -

- Remove all loads from platter;
- If zero weight reading cannot be obtained when unloaded, press [ZERO]
- Press [M+] then followed by [PRINT]. The below data and format will be sent¹⁵,

Refer to **Totalized Accumulated Printout Sample** on next page for description.

¹⁴ Pressing [PRINT] will not accumulate transaction to memory. Press [M+] to trigger memory accumulation and print function simultaneously

¹⁵ The number of copies sent = the number of copy set in internal function F8. Refer to **5. INITIAL SETUP** for more information. If extra copies are needed, press [PRINT] again.

A. WEIGHT PANEL

Weight value is shown here.

B. UNIT PIECE WEIGHT PANEL

Unit piece weight is shown here.

C. QUANTITY PANEL

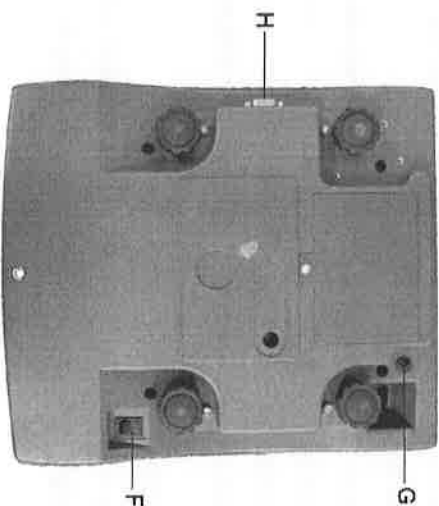
Quantity value is shown here.

D. BUBBLE LEVEL

Refer to this bubble to obtain a horizontal position for the instrument.

E. CHARGE STATUS INDICATOR

Red = Recharging battery; Green = Charging completed.



F. ON/OFF KEY

Press this key to turn the instrument on or off.

G. DC JACK INPUT

External power adaptor is plugged in here.

H. RS232 COMPORT

9 pin (DB9) RS232 interface output for connection with computer and other peripherals.

4. GETTING STARTED

In order to obtain accurate weighing and counting result, the instrument must be placed on a strong and level surface horizontally.

Avoid using the instrument in environment where excessive wind flow, vibration and extreme temperature change exist.

The instrument should be installed aCAy from any sources of excessive electrical noise. For full EMC or for RFI immunity, termination of cable shields and correct grounding of the instrument is essential.

General CAarning: -

- The instrument is not an explosion proof device.
- The instrument is not a CAter proof device.
- Do not open the instrument, no user serviceable parts inside. AICays contact your dealer for service.
- The instrument not to be subject to shock, excessive vibration or extremes of temperature (before or after installation).

4.1 BUILT-IN RECHARGEABLE BATTERY

The instrument is equipped with a built-in rechargeable battery. Before first time use, recharge it for at least 8 hours to ensure the best battery performance.

4.2 POWER ADAPTOR

Before plugging in the power adaptor, check and make sure the input voltage of the adaptor matches with output voltage of the electricity outlet. If not, contact your dealer immediately.

4.3 CONNECTING OTHER DEVICES

AICays turn the instrument off before making any connections or disconnections with external devices.

7. RS232 DATA OUTPUT

Data output parameters are fixed as below: -

- Data Bit = 8
- Parity = None
- Stop Bit = 1

There are 2 data output modes (PC and Prt) are available¹³. PC is for communication with computer and other peripherals which accepts and processes continuous data communication. Prt (printer) is for transmission to printer or other peripherals which accept only single or manual data transmission.

Baud rate has to be set before proceeding to other settings.

7.1 PC (COMPUTER) MODE

Weight status and data are sent under the PC (Computer) Mode). Data is transmitted in ASCII code. Data format is listed on below table.

DATA BIT	DESCRIPTION
1~2	MOTION STATUS US = UNSTABLE ST = STABLE
3	COMMA SEPARATION
4~5	NET/GROSS NT = NET WEIGHT GS = GROSS WEIGHT
6	SIGN (Sign of weight reading) Positive = space. Negative = minus (-)
7~13	WEIGHT VALUE 7-character string containing the current weight including location of decimal point. If there is no decimal point, then the first character is a

¹³

Refer to **5. INITIAL SETUP** for setting information

Hints: -

1. For normal comparison, set both HI and LO limits,
2. To check only if result is lower or equal to LO (result \leq LO), set HI limit = 0,
3. To check only if result is higher or equal to HI (result \geq HI), set LO limit = 0,
4. To check if result is equal to a specified value, set both HI limit and LO limit = the specified value

6.8.2 Visual and Audio Quantity Check Signals

6.8.2.1 Visual signal: - Quantity check result is displayed by one of the **Check Result Indicators** located on **Quantity Panel**.

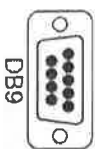
6.8.2.2 Audio signal: - depends on setting of internal function F5, audio signal can be triggered when result is = within range, out of range or turned off.

6.8.3 To Quit Checkweighing Mode

To quit checkweighing mode, set both HI and LO limits to zero.

4.3.1. Connecting with a Computer

RS232 COMPOR T ON INSTRUMENT	COM PORT ON COMPUTER (DB9)	(DB25)
2 = RXD	3 = TXD	3 = TXD
3 = TXD	2 = RXD	2 = RXD
5 = GND	5 = GND	7 = GND



4.3.2 Connecting RS232 to Printer (DB25)

RS232 COMPOR T ON INSTRUMENT	DB25 COMPOR T ON PRINTER
2 = RXD	3 = TXD
3 = TXD	2 = RXD
5 = GND	7 = GND

5. INITIAL SETUP

5.1 INTERNAL SETTINGS

Preferred application parameters can be checked or set through internal functions. Refer to 5.4 for internal function description and setting procedures.

5.2 HOW TO ENTER AND SELECT INTERNAL FUNCTION

Follow the below steps to enter and select desired parameter of an internal function.

- Turn the instrument off and on again,
- Press **[TARE]** during countdown,
- The instrument displays **F1**,
- The instrument is now in internal function,

5.3 KEY FUNCTION DURING INTERNAL FUNCTION SETTING

- [TARE]** = Enter, save and return,
- [ZERO]** = Quit without saving,
- [CHECK]** = Go next,
- [PRINT]** = Go previous,
- [CE]** = Clear,

- output transaction printout(s)¹⁰ through the RS232 comport. The instrument returns to normal operation status after 2 seconds,
- Repeat **a** for subsequent transactions¹¹,

6.7.2 Memory Recall and Clearance

- Remove all loads from platter,
- Press **[M+]** to recall total accumulated weight from memory,
- After **[M+]** is pressed, the instrument displays: -
The instrument displays: -
 - "ACC"** on **Weight Panel**.
 - "n"** on **Unit Piece Weight Panel**. **n** denotes the number of transactions which have been accumulated to memory.
 - Total Indicator** and total accumulated value on **Quantity Panel**.
- At this point: -
 - Press **[ZERO]** to quit or,
 - Press **[CE]** to clear memory, then **[ZERO]** to return to normal operation status.

6.8 QUANTITY CHECK FUNCTION¹²

6.8.1 To Enter High and Lo Quantity Limits

The instrument is equipped with quantity check function. Follow the below steps to trigger checkweighing mode: -

- During normal operation, press **[CHECK]**.
- The instrument displays **High Limit** and current HI limit value is displayed on **Quantity Panel**.
- Press **[TARE]** to accept or enter a new HI limit through the numeric keys and then press **[TARE]** to confirm,
- The instrument then displays **Lo Limit** and current LO limit value is displayed on **Quantity Panel**.
- Press **[TARE]** to accept or enter a new LO limit through the numeric keys and then press **[TARE]** to confirm,

¹⁰ The number of copies sent = the number of copy set in internal function F8. Refer to 5. INITIAL SETUP for more information.

¹¹ Weight reading must return to or below zero to enable another weight accumulation.

¹² Quantity check function will not function when weight reading is less than 20d.

- b. The quantity added to platter is less than 100% of the maximum counts previously attained from the same transaction.

If the above requirements are fulfilled, a new unit piece weight will be determined and displayed on the **Unit Piece Weight Panel** and confirmed by 2 audio beeps.

Auto Unit Piece Weight Enhancement Function will terminate when: -

- a zero weight is detected or during the transaction process, or
- quantity added is more than 100% of the maximum counts previously attained from the same transaction, or
- quantity removed is not more than 50% of the maximum counts previously attained from the same transaction.

To start **Auto Piece Weight Enhancement Function** again after terminated, repeat 6.5.2.

6.7 MEMORY ACCUMULATION FUNCTION

6.7.1 To Accumulate a Transaction to Memory^{6 7 8}

- When quantity is being displayed on **Quantity Panel**, press **[M+]⁹** to and accumulate data of current transaction to memory,
- The instrument: -
 - displays "**ACC**" on **Weight Panel**. **ACC** denotes data has been accumulated to memory,
 - displays "**n**" on **Unit Piece Weight Panel**. **n** denotes the number of transactions which have been accumulated to memory.
 - displays **Total Indicator** and total accumulated value on **Quantity Panel**.

⁶ Transaction with zero quantity will not be accumulated.

⁷ Transaction with weight less than 20d will not be accumulated.

⁸ All data stored will be erased when the instrument is powered off or changing weight unit.

⁹ Unstable weight will not be accumulated to memory. If **M+** is pressed when weight is unstable, the instrument will reject this command and response with 2 beeps.

5.4 INTERNAL FUNCTION TABLE

Function No.	TO CHECK AND SET	PARAMETERS / NOTE DEFAULT = **				
F1	Internal Count Value	<i>Press [TARE] to zero the offset value and to observe the span value of extra load added.</i>				
F2	Time	● HH/MM/SS				
<i>To change time, enter a new time through numeric keys then press [TARE].</i>						
F3	Date Format & Date Value	● ** DD/MM/YY	● YY/MM/DD	● MM/DD/YY		
<i>To change date, enter a new value through numeric keys then press [TARE].</i>						
F4	Keypad Buzzer	● OFF		● ** ON		
F5	Quantity Check Buzzer	● OFF (<i>Buzzer disabled</i>) ● ** IN (<i>Buzzer activated when within range</i>) ● OUT (<i>Buzzer activates when out of range</i>)				
F6	Backlight Mode	● OFF	● ON	● ** AUTO		
<i>Backlight will be turned off automatically when battery is low.</i>						
F7	Auto Power Off Time (Minutes)	● ** OFF	● 1	● 5	● 10	● 20
<i>Instrument remains powered on when powered by external power adaptor.</i>						
F8	Serial (RS232) Output	<i>To set various mode parameters of Serial (RS232) output</i>				

d. To enter new unit piece weight, repeat step **b** above.

6.5.2 Sampling Process

This method is used where unit piece weight is unknown or the weight of individual piece is not highly standardized.

- Refer to **6.2** and **6.4** for zero, selecting preferred weight unit and tare operation,
- Place a sample size with known quantity on platter
- Enter the quantity of the sample through the numeric keypad and confirm by pressing **[#SET]**.
- The instrument will automatically determine the unit piece weight and display it on the **Unit Piece Weight Panel**⁵.
- Step by step add more load onto the platter (or remove part of the load from the platter),
- The latest Weight, unit piece weight and total quantity would be displayed on the corresponding panels,
- To start a new sampling, repeated step **a** to **d** above.

6.6 ABOUT AUTO PIECE WEIGHT ENHANCEMENT FUNCTION

In order to obtain the best counting result accuracy, the instrument is equipped with **Auto Unit Piece Weight Enhancement Function**. This function will automatically come into effect when an unit piece weight is obtained through the sampling method as described in **6.5.2**.

6.6.1 How Auto Unit Piece Weight Enhancement Function Works

After a unit piece weight is obtained by methods as described in **6.5.2**, then place more loads onto the platter. The new quantity will be shown on the **Total Count Panel**. And at the same time, **Auto Unit Piece Weight Enhancement Function** will update the unit piece weight if both below requirements are fulfilled: -

- The quantity added to platter is more than 1 piece, and

⁵ At this point, sampling process is completed and **Auto Piece Weight Enhancement Function** comes into effect.

<p>→ Baud (Set Baud Rate)</p>	<p>● 1200</p> <p>● 2400</p> <p>● 4800</p> <p>● ** 9600</p> <p>● 19200</p>	<p>→ Serial Mode (Set Output Mode)</p> <p>● ** PC (Output to Computer)</p> <p>● Pt (Output to Printer) (NOTE B)</p>	<p>NOTE A: - If PC (output to computer) is selected, set also → int → Stab Cont.</p> <p>→ int = time delay interval between each data transmission. 4 parameters are available for selection</p> <ul style="list-style-type: none"> ● 0 = max transmission speed ● ** 0,5 = 0.5 second time delay interval between each transmission ● 1.0 = 1.0 second time delay interval between each transmission ● 1.5 = 1.5 second time delay interval between each transmission <p>→ Stab Cont = Stable Control.</p> <ul style="list-style-type: none"> ● OFF (Continuous output to computer) ● ** ON (output when weight is stable) <p>NOTE B: - If Prt (output to printer) is selected, set also → Copy → Stab Cont → Print From.</p> <p>→ Copy = number of copy to be printed. 8 parameter are available: -</p> <ul style="list-style-type: none"> ● Copy 1 = Send 1 copy ● ** Copy 2 = Send 2 copies
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- f. To cancel tare effect, remove all loads and container from platter and press [TARE],
- g. **Net Indicator** disappears. Tare effect has been removed and weight reading is gross weight.

6.4.3 Preset Tare

This feature enables the user to manually enter the tare weight. During normal operation, enter the pre-determined tare weight through numeric keys then press [TARE]. This pre-determined tare value will be deducted.

To cancel the preset tare effect, remove all loads from platter then press [TARE].

NOTE: -

1. Refer to **SPECIFICATIONS** for maximum tare range.
2. Manual tare is possible when preset tare is in effect. Manual tare will cancel the effect of preset tare.

6.5 QUANTITY COUNTING

Quantity counting starts with determining the unit piece weight either by keyboard entry or sampling process.

6.5.1 Entering Unit Piece Weight³ ⁴

This method is used where unit piece weight is known and is highly standardized.

- a. Refer to **6.2** to **6.4** for zero, selecting preferred weight unit and tare operation,
- b. Enter the unit piece weight and press [®WT]. The unit piece weight is now displayed on the **Unit Piece Weight Panel**.
- c. Place a load on the platter. The weight of the load is displayed on the **Weight Panel** and the quantity is displayed on the **Quantity Panel**.

³ For best counting result, refer to **2.2** for recommended minimum unit piece weight and weight applied.

⁴ When the individual unit piece weight is not standardized, it is strongly recommended that counting procedures as described in **6.6** should be employed.

	<ul style="list-style-type: none"> ● Copy 8 = Send 8 copies <p>→ Stab Cont = Stable Control.</p> <ul style="list-style-type: none"> ● OFF (Data is sent to printer when [PRINT] is pressed). ● ** ON (Output to printer is sent only when weight is stable) <p>→ Print From = Minimum weight to be printed. 21 parameters are available: -</p> <ul style="list-style-type: none"> ● 0d (Minimum weight to be printed disabled) ● 1d (no printout if weight is below 1d) ● .. ● ** 10d (no printout if weight is below 10d) ● .. ● 20d (no printout if weight is below 20d) <p>Refer to SPECIFICATIONS for d value or contact your dealer for more information.</p>			
F9	Weight Unit	kg <ul style="list-style-type: none"> ● ** ON ● OFF 	g <ul style="list-style-type: none"> ● ** ON ● OFF 	Lb <ul style="list-style-type: none"> ● ** ON ● OFF
	Each weight unit can be enabled (ON) or disabled (OFF).			
F10	Calibration and Parameter	This function is only for authorized dealer/personnel. Do not change any settings or parameters under this function. Contact your dealer for more information.		

6. INSTRUCTION FOR USE

6.1 POWER ON

Powered on the instrument, instrument displays: -

- softCare and revision number and capacity of instrument,
- calibration count value,
- parameter set count value,
- all LCD segments,

Then countdown process starts. After that, the instrument is ready for operation.

6.2 START WEIGHING

- If zero weight cannot be obtained when unloaded, press **[ZERO]**. After **[ZERO]** is pressed, **Zero Indicator** appears. Refer to **SPECIFICATIONS** for maximum zero range,
- AICAs place an object onto platter gently. Excessive force applied to platter may cause damages to the weight sensor inside instrument,
- Weight of the object is displayed on thus unit automatically,
- It is a good practice to remove all loads from platter after weighing. It will prolong the life of the weight sensor inside instrument.

6.3 ABOUT WEIGHT UNIT CONVERSION

The instrument supports conversion among weight units. Press **[UNIT]** to shift between kg, g and lb.

To enable or disable a particular weight unit, set it ON or OFF respectively in internal function F9.

The weight unit being employed before power off will be employed when turned on again.

6.4 TARE OFF THE WEIGHT OF A CONTAINER¹

Tare function is used to temporarily set the instrument to zero (such as cancelling the weight of a box or a container) in order to get the net weight result

6.4.1 Enable / Disable Repeat (Multiple) Tare

Depends on internal function setting, repeated (multiple) tare operation may be enable (**Mode 1**) or disabled (**Mode 2**). Contact your dealer for more information.

When repeat (multiple) tare is enabled: -

- the instrument will permit multiple tare operations provided that both of the below requirements are fulfilled: -
 - The tare operation does not permit a reduction of the value of the tare;
 - The tare effect can only be cancelled when there is no load on the platter.
- tare effect can only be cancelled when container is removed and gross weight is zero.

6.4.2 Manual Tare²

When a container is used, follow the below steps to tare the weight of the container off to get a net weight result.

- Remove all loads from platter,
- Make sure that the **Zero Indicator** is on. If not, press **[ZERO]** to set weight reading to zero,
- Place container on platter,
- Press **[TARE]**,
- Net Indicator** appears to indicate tare is in effect and weight reading is net weight. Refer to **SPECIFICATIONS** for maximum tare range,

¹ The tare weight is deducted from the weighing capacity (Max), reducing the maximum weight that can be displayed.

² a. The tare operation does not permit a reduction of the value of the tare;
b. The tare effect can only be cancelled when there is no load on the platter.