

**KW series**  
Weighing Indicator  
***User's guide***



## **Table of Contents**

SECTION 1 INTRODUCTION.....	1
SECTION 2 SPECIFICATIONS.....	2
SECTION 3 INSTALLATION.....	3
SECTION 4 KEY DESCRIPTIONS.....	5
SECTION 5 DISPLAYS.....	6
SECTION 6 OPERATION.....	7
6.1 Zeroing the display.....	7
6.2 Taring.....	7
6.3 Weighing a sample.....	7
6.4 Parts counting.....	7
6.5 Check-weighing.....	8
6.6 Accumulated total.....	9
SECTION 7 PARAMETERS.....	10
SECTION 8 BATTERY OPERATION.....	13
SECTION 9 RS-232 OUTPUT.....	14
SECTION 10 CALIBRATION.....	15
SECTION 11 ERROR CODE.....	16
SECTION 12 TECHNICAL PARAMETES.....	17



## **SECTION 1 INTRODUCTION**

The KW series of bench scale provides an accurate, fast and versatile series of general purpose weighing with counting and check-weighing functions.

There are 3 series within the range, the platform size from 350mm x 450mm to 600mm x 800mm, the capacity range from 30kg to 1000kg

All the keypads are sealed, color coded membrane switches and the displays are large easy to read liquid crystal type displays (LCD). The LCD's are supplied with a backlight.

All units include automatic zero tracking, audible alarm for pre-set weights, and an accumulation facility that allows the individual weights to be stored and recalled as an accumulated total.

## SECTION 2 SPECIFICATIONS

Model	SKW	MKW	LKW
Platform size	350mm x 450mm	420mm x 520mm	600mm x 800mm
Capacity	30kg/60kg/150kg	60kg/150kg/300kg	300kg/600kg/1000kg
Resolution	1:15,000		
Interface	RS-232 Output Optional		
Stabilisation Time	1 Seconds typical		
Operating Temperature	0°C - 40°C / 32°F - 104°F		
Power supply	External AC adapter, 9V 800mA		
Calibration	Automatic External		
Display	6 digits LCD display with 24mm high digits, attached LED backlight		
Balance Housing	Indicator ABS Plastic		
Load cell drive voltage	Max 5V/150mA		
Load cells	Up to four 350 ohms cells		

## **SECTION 3 INSTALLATION**

### **GENERAL INSTALLATION**

The s should be sited in a location that will not degrade the accuracy.

Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.

Avoid unsuitable tables. The tables or floor must be rigid and not vibrate. Do not place near vibrating machinery.

Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.

Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the s in water.

Avoid air movement such as from fans or opening doors. Do not place near open windows.

Keep the s clean.

Do not stack material on the s when they are not in use.

### **INSTALLATION OF KW SERIES**

The pillar is attached to the base using a bracket that must first be attached to the base frame using the 4 bolts supplied. The Pillar is secured to the bracket using 2 set screws. The cable from the base to the indicator module is run through the tube, out through the plastic support at the top. Excess cable can be stored within the tube.

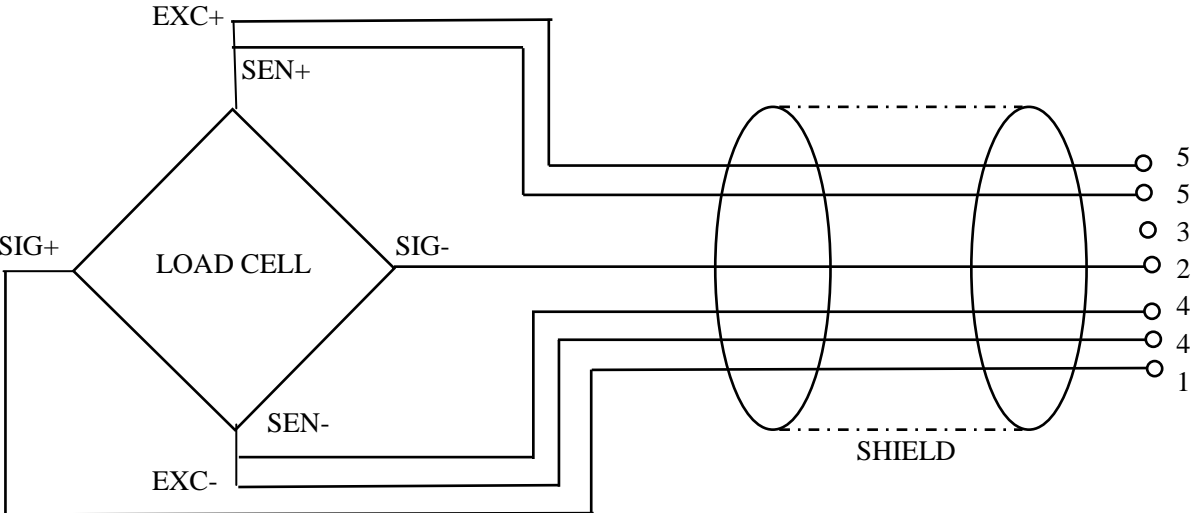
The KW Series comes with a stainless steel platform packed separately. Place the platform in the base.

Level the scale by adjusting the four feet. The scale should be adjusted such that the bubble in the spirit level is in the center of the level and the scale is supported by all four feet. If the scale rocks readjust the feet.

Attach the indicator module to the pillar by sliding it over the bracket with the flanges engaged in the grooves on the base. Attach the cable from the base to the connector on the rear of the indicator.


Attach the AC power adapter to the connector on the back of the indicator.

Load cell connect as below( 5pin air connector)







## SECTION 4 KEY DESCRIPTIONS


Zero or 


Set the zero point for all subsequent weighing. The display shows zero.

A secondary function , of "Enter" key when setting parameters or other functions.

Tare or 

Tares the . Stores the current weight in memory as a tare value, subtracts the tare value from the weight and shows the results. This is the net weight. Entering a value using the keypad will store that value as the tare value.

A secondary function , of incrementing the active digit when setting a value for parameters or other functions.

Smpl or 

Enter counting mode from weighing mode. Shift unit weight, counts and total weight when counting mode. Move the active digit right when setting values for other functions.


UNIT or U

Press this key to select the weight unit. Move the active digit left when setting values for other functions.

Func or **F**

Used to select the function of the scale. If the scale is weighing it will select parts counting. If it is not in weighing mode it will return the user to weighing.

Secondary function ( C ) , is to act as a clear key when setting values for parameters or other functions.

Print/M+ or 

To print the results to a PC or printer using the optional RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not automatic.

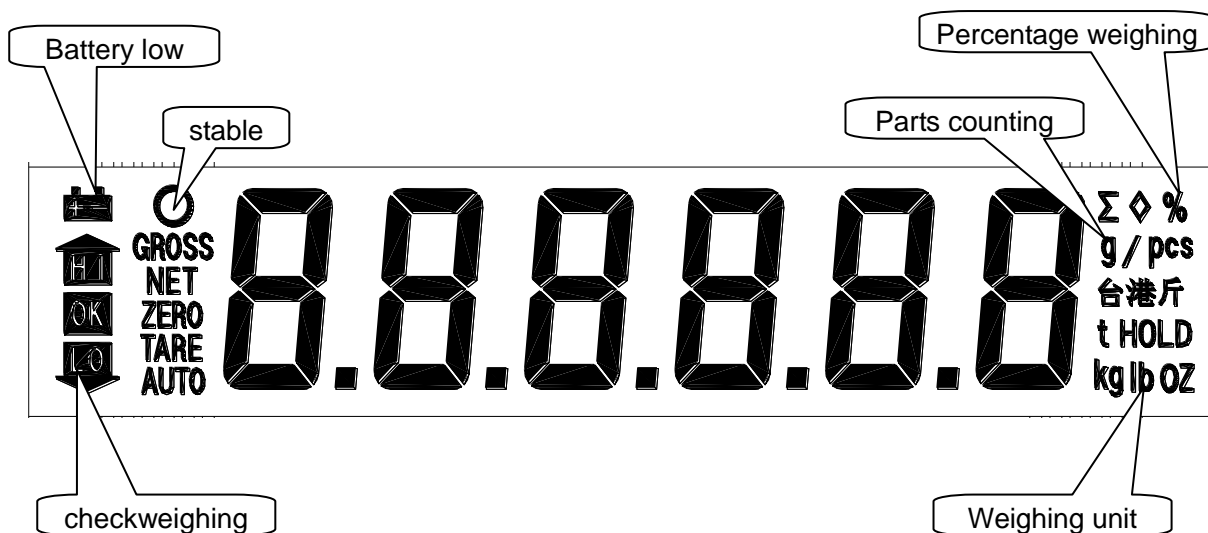
Secondary function (ESC) , is to return to normal operation when the is in a parameter setting mode.

ON/ OFF or 

Turn on or off the power.

## SECTION 5 DISPLAYS

The LCD display will show a value and a unit to the right of the digits.  
In addition there are labels for TARE, GROSS weight, Zero and for Low battery



## SECTION 6 OPERATION

### 6.1 Zeroing The Display

You can press the **ZERO** key at any time to set the zero point from which all other weighing and counting is measured, within 4% of power up zero. This will usually only be necessary when the platform is empty. When the zero point is obtained the display will show the indicator for zero.

The scale has an automatic rezeroing function to account for minor drifting or accumulation of material on the platform. However you may need to press the **ZERO** key to rezero the scale if small amounts of weight are shown when the platform is empty.

### 6.2 Taring

Zero the scale by pressing the **ZERO** key if necessary. The zero indicator will be on.

Place a container on the platform, a value for its weight will be displayed.

Press the **TARE** key to tare the scale. The weight that was displayed is stored as the tare value and that value is subtracted from the display, leaving zero on the display. The "TARE" indicator will be on. As product is added only the weight of the product will be shown. The scale could be tared a second time if another type of product was to be added to the first one. Again only the weight that is added after taring will be displayed.

When the container is removed a negative value will be shown. If the scale was tared just before removing the container this value is the gross weight of the container plus all product that was removed. The zero indicator will also be on because the platform is back to the same condition it was when the **ZERO** key was last pressed.

### 6.3 Weighing a sample

To determine the weight of a sample first tare the empty container then place the sample in the container. the display will show the weight and the units of weight currently in use.

### 6.4 Parts Counting

When the scale is showing weight, pressing the **SMPL** key will start the parts counting function.

Before beginning, tare the weight of any container that will be used, leaving the empty container on the scale. Place the number of samples on the . The number

should match the options for parts counting, 10, 20, 50, 100 or 200 pieces.

Press the **SMPL** key to begin. The scale will show "P 10" asking for a sample size of 10 parts. Change the sample size by pressing the **TARE** key. the display will cycle through the options: 10,20, 50, 100, 200 and back to 10.

Press the **SMPL** key when the number matches the number of parts used for the sample. As more weight is added the display will show the number of parts (pcs).

Press the **FUNC** key to return to normal weighing.

## 6.5 Check-Weighing

### 6.5.1 About check-weighing

Check-weighing is a procedure to cause an alarm to sound when the weight on the scale meets or exceeds values stored in memory. The memory holds values for a high limit and a low limit.

#### **Check mode 2:**

When check range, the display will show OK and the beeper will sound when the weight is between the limits.

#### **Check mode 3:**

When check range, the display will show OK and the beeper will sound when the weight is out of the limits.

### 6.5.2 Set limits

Press **Func** key, it will display "FD H-L", press **ZERO** key to enter, use **TARE** key to select "SEt Hi" or "SEt Lo", press **ZERO** key to enter, use **SMPL** key to move active digit, use **TARE** key to change value, use **FUNC** key to clear value. After you enter the value, press **ZERO** key to sure, press **Print** key to escape.

### 6.5.3 Set check weighing mode

Press F key to enter setting mode, press **TARE** until display show "F4 OFF", press **ZERO** key to enter, press **TARE** key until display show "bEEP", press **ZERO** key to enter, press **TARE** key to select bP 2 (check mode 2), bP 3 (check mode 3), bP 1 (no beep), press **ZERO** key to sure, press **Print** key to escape.

### 6.5.4 NOTE

The weight must be greater than 20 divisions for the check-weighing to operate.

To disable the Check-Weighing function enter zero into both limits by pressing the **FUNC** key when the current limits are shown then pressing **ZERO/ENTER** to store the zero values.

## 6.6 Accumulated Total

### 6.6.1 Note

The can be set to accumulate manually by pressing the **PRINT** key. See the PARAMETERS Section for details of selecting the method using function "FS Prt". The accumulation function is only available when weighing. It is disabled during parts counting.

Please note before every accumulate operate, scale needs return to zero, and only press **Print** key when stable, when weight less than 20d, accumulate operate will be invalid.

### 6.6.2 Accumulate operate

The weight displayed will be stored in memory when the **PRINT** key is pressed and the weight is stable.

The display will show "ACC 1" and then the total in memory for 2 seconds before returning to normal. (after do accumulate operate,  $\Sigma$  indicator will turn on) If the optional RS-232 interface is installed the weight will be output to a printer or PC.

Remove the weight, allowing the scale to return to zero and put a second weight on. Press the PRINT key, the display will show "ACC 2" and then the new total.

Continue until all weights have been added.

\*Note: after you change weighing unit, accumulate value will be clear.

### 6.6.3 memory recall

To view the totals in memory press **Print** key in zero point (ZERO indicator on).

### 6.6.4 memory clear

To clear the memory, just press **Func** key

### 6.6.5 automatically accumulate

At first, you need set scale to auto accumulate mode, press **Func** key, it will display "FO H-L", press **TARE** key until display show "FS Prt", press **ZERO** key to enter, press **TARE** key to select "P AUTO", press **ZERO** key to sure, then you need set baud rate and print format, printer type, see detail in SECTION 7

After you set, AUTO indicator on.

Press weight on platform, after stable, you will hear beep on twice, you can add or remote weight now, scale will beep on again after stable, at last, remove all weight on platform, the last weight value will store in memory

### 6.7 Animal s

KW can set as an animal scale, you just need set *P4 CH* to *mode2*, see detail in SECTION12.

Let the animal on the platform, after some second, if reading data change not a lot, you can hear beep sound and reading data will be locked.

In reading data lock mode, if you add/remove big weight, display will still update and lock new reading data.

### 6.8 subtraction

This is used for hopper, you need set auto zero range to 0 (see detail in SECTION 7) and set scale mode to mode3/mode4 (see detail in SECTION12)

Turn on power, scale will show "Err4", then show current total weight on platform, press **TARE** key, display show 0.00, then remove goods in hopper, display will show it's weight in "-" mode, press **Print** key, scale will print out weighing ticket, mode3/mode4 only different is print format.

## SECTION 7 PARAMETERS

The scale has 6 parameters that can be set by the user plus a method of entering the calibration section.

To set parameters press the **FUNC** key.

The display will show the first function, "FD H-L".

Pressing the **TARE** key will cycle through the other functions.

Pressing **ZERO** will allow you to set the function. It may be necessary to either use **TARE** or set a value using the **SMPL** key to move the active digit and then using the **TARE** key to increment a digit, followed by the **ZERO** key to enter the value. Use the **PRINT** key to leave a parameter unchanged.

For example when the display shows "FD H-L" press the **ZERO** key to begin.

The display will show "SEt Lo", press the **ZERO** key to set the low limit, or press the **TARE** to skip to the next parameter, "SEt Hi" for setting the high limit.

After pressing the **ZERO** key to set a limit, use the **SMPL** keys to change the flashing digit, then use the **TARE** key to increment the flashing digit. Continue to the next digit and set it as needed.

When all digits have been set press the **ZERO** key to store the value. The display will go back to the parameter just set, i.e. "SEt Lo". Advance to another parameter if needed or press the **PRINT** key to return to weighing.

### FUNCTION MENU SETTINGS

FUNCTION	SUB-FUNCTION	DESCRIPTION	DEFAULT VALUE
FD H-L	SEt Lo	Set a value for the Low limit.	000.000
	SEt Hi	Set a value for the High Limit.	000.000
F1 toL	to CLr	Clears the accumulation memory without printing the results.	
	to P-C	Prints the Accumulation memory total and then clears the memory.	
	to Prt	Prints the Accumulation Total, does not clear the memory.	
F2 U n t		Sets the displayed unit of weight. Select kg, g, Lb.	kilogram, kg
F3 t ,	SEt dA	Set date, The display will show last date set or 00.01.01. Enter new date, format yy.mm.dd	
	SEt t ,	Set time, The display will show current time Enter new time, format hh.mm.ss	

## FUNCTION MENU SETTINGS

FUNCTION	SUB-FUNCTION	DESCRIPTION	DEFAULT VALUE
F4 OFF	CL OFF	Set clock off or on, CL OFF CL ON: KW will turn to clock display after KW wait for 5 minutes	CLK off
	BL	Set the backlight to be on, automatic or off, EL ON EL AU EL OFF	EL Au
	BEEP	Set the beep mode.(check weighing mode 2, check weighing mode3, no beep)	
	OF	Set auto power off time. 0/3/5/15/30 minutes	
F5 Prt		<p>Set the RS-232 , at first set RS-232 working mode (press <b>TARE</b> key to change, press <b>ZERO</b> key to sure)</p> <p>P Prt: print weighing ticket when the <b>PRINT</b> key is pressed,</p> <p>P Cont: send weighing data continuously, connect to PC ,</p> <p>RS: ask and answer mode (bi-direction mode), connect to PC.</p> <p>Command "R": send weighing data to PC</p> <p>Command "T": do tare operate</p> <p>Command "Z": do zero operate</p> <p>P Auto: auto print mode.</p> <p>SE , rE: connect with remote display (also send continuously)</p> <p><u>Then set baud rate</u></p> <p>After set working mode, display will show b xxx, this is current baud rate, you select baud rate by <b>TAKE</b> key ad press <b>ZERO</b> to sure.</p> <p>If you set SE , rE, then need <u>set communication protocol</u>, display will show Con x, con1 is standard protocol, con2 and con3 is other communication protocol, see detail in section 9.</p> <p>If you set printer (P Prt, P Auto), then you can <u>set print out format</u>.</p> <p>Display will shows "Pr x", set the date/time print format, Then display show "LAb x", set gross/acc print format, you can see detail below.</p> <p>These parameter only available in MODE0(normal mode), see detail in section 12.</p> <p>Then <u>set printer type</u>,</p> <p>LY-LP: mini ticket printer</p> <p>LY 711: A711 label printer</p> <p>LP-50: LP-50 label printer</p>	P Prt
F6 OFF		Set the power auto off, On/off/3/5/15/30	



KW series weighing indicator user's manual

<i>Prog</i>	<i>Pin</i>	Enter the programming and calibration menus by entering the correct password. See the section 12.
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Print out format form 1 (for TpuP printer)

Lab prt	0	1	2	3
<b>0</b>	GS: 0.888kg	NT: 0.666kg TW: 0.222kg GW: 0.888kg	GS: 0.222kg TOTAL: 0.222kg	NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 0.222kg
<b>1</b>	DATE: 04/06/06 GS: 0.888kg	DATE: 04/06/06 NT: 0.666kg TW: 0.222kg GW: 0.888kg	DATE: 04/06/06 GS: 0.222kg TOTAL: 0.444kg	DATE: 04/06/06 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 0.444kg
<b>2</b>	TIME: 11/11/11 GS: 0.888kg	TIME: 11/11/11 NT: 0.666kg TW: 0.222kg GW: 0.888kg	TIME: 11/11/11 GS: 0.222kg TOTAL: 0.666kg	TIME: 11/11/11 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 0.666kg
<b>3</b>	DATE: 04/06/06 TIME: 11/11/11 GS: 0.888kg	DATE: 04/06/06 TIME: 11/11/11 NT: 0.666kg TW: 0.222kg GW: 0.888kg	DATE: 04/06/06 TIME: 11/11/11 GS: 0.222kg TOTAL: 0.888kg	DATE: 04/06/06 TIME: 11/11/11 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 0.888kg
<b>4</b>	NO.: 4 GS: 0.888kg	NO.: 4 NT: 0.666kg TW: 0.222kg GW: 0.888kg	NO.: 4 GS: 0.222kg TOTAL: 1.000kg	No.: 4 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 1.000kg
<b>5</b>	DATE: 04/06/06 NO.: 5 GS: 0.888kg	DATE: 04/06/06 NO.: 5 NT: 0.666kg TW: 0.222kg GW: 0.888kg	DATE: 04/06/06 NO.: 5 GS: 0.222kg TOTAL: 1.222kg	DATE: 04/06/06 No.: 5 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 1.222kg
<b>6</b>	TIME: 11/11/11 NO.: 6 GS: 0.888kg	TIME: 11/11/11 NO.: 6 NT: 0.666kg TW: 0.222kg GW: 0.888kg	TIME: 11/11/11 NO.: 6 GS: 0.222kg TOTAL: 1.444kg	TIME: 11/11/11 No.: 6 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 1.444kg
<b>7</b>	DATE: 04/06/06 TIME: 11/11/11 NO.: 7 GS: 0.888kg	DATE: 04/06/06 TIME: 11/11/11 NO.: 7 NT: 0.666kg TW: 0.222kg GW: 0.888kg	DATE: 04/06/06 TIME: 11/11/11 NO.: 7 GS: 0.222kg TOTAL: 1.666kg	DATE: 04/06/06 TIME: 11/11/11 No.: 7 NT: 0.222kg TW: 0.666kg GW: 0.888kg TOTAL: 1.666kg

Print out format form 2 (for LP-50/A711 label printer, only "PRT" parameter available)

0	2000/00/00 00:00 S/N 1 GW 0.888kg	4	2000/00/00 00:00 S/N 4 GW 0.888kg
1	DATE: 2000/00/00 TIME: 00:00 GW: 0.888kg	5	DATE: 2000/00/00 TIME: 00:00 GW: 0.888kg
2	DATE: TIME: 00:00 S./NO.: 2 GROSS WT: 0.888kg	6	DATE: TIME: 00:00 S./NO.: 6 GROSS WT: 0.888kg
3	2000/00/00 00:00 S/N 0003 GW 0.888kg	7	2000/00/00 00:00 S/N 7 GW 0.888kg

## **SECTION 8 BATTERY OPERATION**

The weighing indicator can be operated from the battery if desired. The battery life is approximately 70 hours.

When the battery needs charging a symbol on the weight display will turn on. The battery should be charged when the symbol is on. The will still operate for about 10 hours after which it will automatically switch off to protect the battery.

To charge the battery simply plug into the mains power. The scale does not need to be turned on.

The battery should be charged for 12 hours for full capacity.

Just under the quantity display is an LED to indicate the status of battery charging. When the scale is plugged into the mains power the internal battery will be charged. If the LED is green the battery has a full charge. If it is Red the battery is nearly discharged and yellow indicates the battery is being charged.

As the battery is used it may fail to hold a full charge. If the battery life becomes unacceptable then contact your distributor.

## SECTION 9 RS-232 OUTPUT

The KW Series of can be ordered with an optional RS-232 output.

### 9. 1 basic information

Specifications:

RS-232 output of weighing data  
 ASCII code  
 8 data bits  
 No Parity  
 Baud rate from 600bps to 9600bps

Connector: 25 pin d-subminiature socket

Pin 2: Input,  
 Pin 3: Output  
 Pin 5: Signal Ground

### 9. 2 normal print out

Data Format for normal weighing operations, parts counting or recalling of totals from memory will all be different. Examples follow:

#### Normal Output

Date AND TIME	The will be set date and time
S/N	The number increments every time a new value is stored in memory
GW	GW for gross weight, NT for net weight and a unit of weight

When parts counting the weight, unit weight and count will be printed.

Date:	The scale hasn't printed
Time: 00:00	The scale will be set time
Gross wt: 0.149KG	GW for gross weight, NT for net weight and a unit of weight
Unit wt: 7.4257G	The average piece weight computed by the
Quantity : 20PCS	The number of parts counted
<lf>	
<lf>	

When recalling the Total weight stored in the accumulation memory the output format is:

*****	A line of stars is shown
<lf>	Includes 1 line feed
Date:	
Time: 00:00	
Total No: 3	Times of the accumulation memory
Total wt.: 0.447KG	Weight of the accumulation memory
*****	

9.3 continuously output protocol

con1: weighing mode

		,			-/□													k	g	CR	LF
-HEADER1-		HEADER2-		--- WEIGHT DATA --												-WEIGHT UNIT		TERMINATOR			

con1: counting mode

P	C	S	:															□	p	c	s	CR	LF
												- QTY -				-QTY UNIT-							

HEADER1: ST=STABLE, US=UNSTABLE

HEADER2: NT=NET, GS=GROSS

Con2:

Header0	Header1	Header2	Header3	Weight1	Weight2	Weight3	Weight4	Weight5	Weight6	Tare1	Tare2	Tare3	Tare4	Tare5	Tare6	Terminator1	Terminator2
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	-------	-------	-------	-------	-------	-------	-------------	-------------

Header0=02H

Header1 follow decimal point

Decimal point=0, header1=22H

Decimal point=1, header1=23H

Decimal point=2, header1=24H

Decimal point=3, header1=25H

Decimal point=4, header1=26H

Header2 follow weigh status, default value=20H

If in net mode (tare value not 0), header2=header2|01H

If gross weight "-", header2=header2|02H

If overload or gross weight "-", header2=header2|04H

If unstable, header2=header2|08H

If weighing unit=kg, header2=header2|10H

Header3 follow weighing unit

If weighing unit=g, header3=21H

If weighing unit=oz, header3=23H

Weight1~weight6: weighing data

Tare1~tare6: tare value

Terminator1: 0DH

Terminator2: 0AH

Con3:

Header0	Header1	Weight1	Weight2	Weight3	Weight4	Weight5	Weight6	Weight7	Unit1	Unit2	Status	Terminator1	Terminator2
---------	---------	---------	---------	---------	---------	---------	---------	---------	-------	-------	--------	-------------	-------------

Header0=01H

Header1 follow weight "+" or "-"

When weight "+", header1="+", when weight "-", header1="-"

Weight1~weight7: weight data (include decimal point)

Unit1~unit2: weight unit

Status: when stable, status=0, when unstable, status=1

Terminator1: 0DH

Terminator2: 0AH

## SECTION 10 CALIBRATION

Turn the power off.

Turn the power back on, during the counting from 9 to 0 press the **FUNC** key.

The display will show "CAL " for a few seconds. While it is showing "CAL " press the **UNIT**, **PRINT** and **TARE** keys in sequence to enter the Calibration section. The display will show "nonL in".

### 1. Normal calibrate

press the **ZERO** key. the display will show: "UnLod".

Remove any weight from the platform. After stable indicator on, press the **ZERO** key.

Then the display will show the last calibration weight used. If this is correct you can continue by pressing the **ZERO** key. If it is not correct use the **UNIT**, **SMPL**, **TARE** keys to change the calibration weight value. When it is correct press the **ZERO** key.

Then display will show "Lod". Place the calibration weight on the. After stable, press the **ZERO** key.

### 2. Linearity Calibrate

Press **ZERO** key to enter calibrate. Press **TARE** key. Then the display will show "L inEr".

press **ZERO** key to enter calibrate. The display will show "Lod0".

Remove any weight from the platform. After stable indicator on, press the **ZERO** key.

Then the display will show "Lod1", apply the reference weight of the full capacity of the scale just in the center of the platform. The span adjustment will automatically be achieved.(Calibrate weight request: the front digits if the full capacity. For example, the full capacity is 300kg, the 30kg/40kg... to 290kg (integer value) ) will be accepted. then press the **ZERO** key.

Then the display will show "Lod2", apply the reference weight of the full capacity of the scale just in the center of the platform. The rule is the same as "Lod1". then press the **ZERO** key.

Then the display will show "Lod3", apply the weight of the full capacity, the full

capacity will automatically be achieved. then press the **ZERO** key.

If the calibration is acceptable the display will return to normal. If an error message is shown try calibration again as a disturbance may have prevented a successful calibration.

If the problem persist then contact your dealer.

After calibration the should be checked to verify the calibration and linearity is correct. If necessary repeat calibration, especially be certain the is stable before accepting any weight.

## SECTION 11 ERROR CODES

ERROR CODES	DESCRIPTION	RESOLUTION
-----	Over range	Remove weight from the . If the problem persist contact your dealer for assistance.
<i>Err 1</i>	Date Setting Error	Enter date using correct format and reasonable values. Format: yy:mm:dd
<i>Err 2</i>	Time Setting Error	Enter time using correct format and reasonable values. Format: hh:mm:ss
<i>Err 4</i>	Zero Setting Error	The was outside the normal zero setting range either when it was turned on or when the ZERO key was pressed. Remove weight from the and try again. Use the TARE key to set the display to zero value. If the problem persist contact your dealer for assistance.
<i>Err 5</i>	A/D out of range	The values from the A/D converter are outside the normal range. Remove weight from the if overloaded, make sure the pan is attached. Indicates the load cell or the electronics may be faulty. If the problem persist contact your dealer

## SECTION 12 TECHNICAL PARAMETERS

Press **Func** key when normal weighing mode, display shows "FD H-L", press **TARE** key until display shows "PrO", press **ZERO** key, display shows "P in", You can press **unit**, **PRINT**, **TARE** key to enter setting mode, press **Tare** key to select parameter, press **Zero** key to sure, press **Print** key to escape.

FUNCTION	SUB-FUNCTION	DESCRIPTION	
P1 REF	AZn 0	This option is used to select the auto zero maintain; Options : 0.5d, 1d, 2d, 4d	
	0-AUTO	This option is used to select the auto zero range when turn the indicator. Options : 0%, 2%, 5%, 10%, 20%	
	0- RANGE	This option is used to select the manual zero range when press the ZERO key. Options: 2%, 4%, 10%, 20%, 50%, 100%	
	SPEED	Set ADC speed, press U. Wt. Key to select ADC speed, press Tare key to enter 7.5: 7.5 times per second 15: 15 times per second 30: 30 times per second 60: 60 times per second Note: 15 times per second or 30 times per second are recommendatory	
P2 CAL	DEC ,	This option is used to select the decimal Options : 0, 0.0, 0.00, 0.000	
	inC	This option is used to select the division Options : 1, 2, 5, 10, 20, 50	
	CAP	This display will show xxxxxx for setting the capacity.	
	CAL	nonL in	Non- linearity Calibrate
		L inEr	Linearity Calibrate see detail in section 10
P3 P ro	tr ,	This display will show xxxxxx for trimming the load cells .	
	CoUnt	This display will show xxxxxx for indicating the internal counts.	
	rESEt	This display will show SURE for recovering the factory default setting.	
	SEt Gru	Set the gravity.	
P4 CHt	nodE 1	This is mode of the natural	
	nodE 2	This is animal can lock reading when little unstable	
	nodE 3	This is a subtraction (print out "-" weight) Print format: GROSS: 0.888KG gross for gross weight NET: 0.222KG net for net weight TARE: 0.666KG tare for tare weight	
	nodE 4	As the mode 2, but print out format different NW: 0.222KG nw for net weight GW:0.888KG gw for gross weight	



