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#### WARRANTY

**CONTECH INSTRUMENTS LTD** warrants all its products against defects in material and workmanship for a period of one year, subject to terms and conditions stated below and as further modified by warranty Amendment, in each product instruction manual. The warranty card must be registered with us within 15 days of purchase.

- 1. Warranty period will commence from the date of shipment from **CONTECH** to the original buyer.
- 2. All warranty repairs are normally done at our factory in Mumbai and our decision about faulty materials or workmanship will be final. The instrument should be sent in the original packing to our factory at the address given below. Postage /Airfreight charges both ways are to be borne by the customer.
- If any of our product is opened by any one other than our engineers or our authorised representatives, this warranty will become null and void and CONTECH will be relieved of all responsibilities as to the service and
- operation of the said product. 4. This warranty will not be applicable to :
  - a) Shipping damage or damages incurred while products are in transit.
  - b) Correction of operational problems arising out of environmental conditions beyond our control.
  - c) Maintenance necessitated by customer neglect, misuse, improper operation of the instrument or equipment.
  - d) Work necessitated by damages from war, accident, fire, flood, electrical failure, vandalism or any other causalities.
  - e) Repairs due to customers failure to perform any routine maintenance prescribed in the instruction manual.
- (The routine inspection of calibration and other parameters should be done periodically by the user)
- CONTECH shall not be liable for any consequential damages nor labour loss or expense directly or indirectly arising from use of its products.,
- Amendments, assumed corollaries or statements contrary to the terms of this warranty shall not be binding on us unless they are put in writing and approved by us.
- 7. Any disputes arising out of usage of this products will be subject to Mumbai jurisdiction.
- 8. For warranty service, contact your local dealer or contact us on the below address.

Corporate Office: 301, Punit Indl. Premises, Turbhe Naka, Navi Mumbai - 400 705. Tel.: +91 22-2761 1176 / 77 / 78 / 79 / 80, 2761 8431 , 6139 3000 Fax:+91 22-2761 8421 E-mail: sales@contechindia.in / info@contechindia.in Website: www.contechindia.com

> Factory: Plot No. EL-221 TTC Indl. Area, MIDC (Electronic Zone), Mhape, Navi Mumbai-400 710. Tel.: +91 22-6194 4000 Fax: +91 22-2761 8371

Product :	Purchase Ref.:
Model No.:	Invoice No.:
Sr. No ·	Date :

Dealer's Name & Address: \_\_\_\_\_

## INTRODUCTION

**Contech**<sup>®</sup> CTL/CTB Series balances use load cells to measure weight. The following features enable the user to suit these balances for variety of applications.



#### Features:

- \* Multiple weighing units , Gram, Carat, Tola, , Pound , Grains, GSM, % weighing
- \* Piece counting facility, up to 25 different types.
- \* Storage of weights in memory and printing, up to 100 weights.
- \* Power saving mode.
- \* Bi-directional RS232 interface to interface with computers and printers.

(1)

- \* Selectable baud rate.
- \* Set point facility up to 2 limits.
- \* Auto Power off.
- \* Optional Peak Hold facility.
- \* Date and time facility.
- \* Multiple Print options with Sr. no., Date, Time and weight in Horizontal/Vertical mode.
- \* Automatic zero tracking.
- \* Density determination option.
- \* Optional Battery backup facility.
- \* GSM computation
- \* % weighing & Calibration.
- \* Weight slip printing option.

## INSTALLATION

#### 1. Unpacking:

Unpack the balance. Save the packing container for future use.

#### 2. Electrical requirements:

The balance requires very stable power. It works on 230V AC supply with PROPER EARTHING. The power outlet used for the balance should not be shared with any other devices which draws current in inconsistent manner like Airconditioner or refrigerator etc.

#### 3. Environmental requirements:

For best results, the balance should be placed on a level surface which is free from drafts. It should not be exposed to direct sunlight or radiated heat. The balance should not be subjected to sudden ambient temperature changes. Table used for balance should be sturdy and should not transmit vibration from other equipments and free from the movement of people. No vibration producing equipment should be operated on the same platform balance

#### START UP

#### CTL / CTB SERIES

Power is supplied through a 9V adapter. Connect the adapter to the power jark connector at the rear side of the balance.

Balance goes through the self test and subsequently starts displaying weight

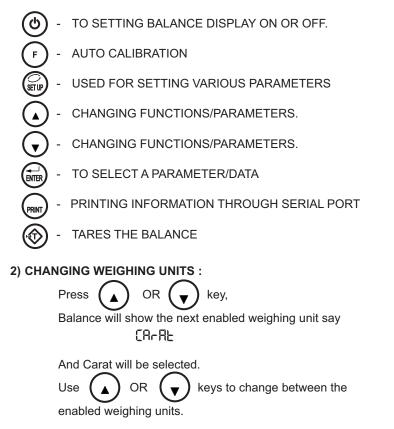


key to zero the weight, if required.

NOTE: Please note that these balances need a warm up time of approx. 30 minutes before it is used. No adjustment should be done to the balance during this period. Balance is ready for weighing after warm up period.



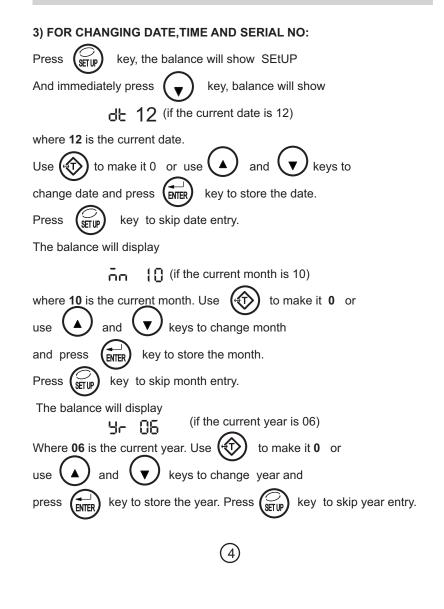
#### 1) KEYBOARD DESCRIPTION :

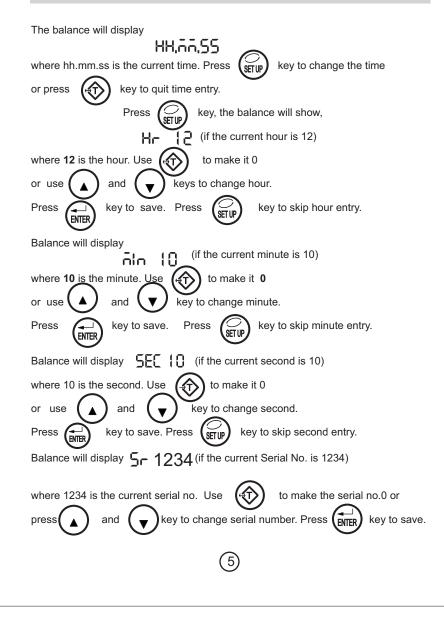


Note that all weighing functions except the basic weighing unit need to be enabled using SETUP functions. Refer section on SETUP for more details. Please note that some of the weighing functions in the balance may be illegal in some countries. They should be not be made available to the end user.

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### **BALANCE OPERATIONS & FUNCTIONS**





## **BALANCE OPERATIONS & FUNCTIONS**

#### 4. Print Option:

These balances can be attached to a serial printer for your printing needs. Print out can be programmed to suit most of the printing requirements. Note that the printer should have a serial port and baud rate of the balance and printer should be same. 2 baud rates are available are. 2400 and 4800.

Press	PRINT
-------	-------

key to print weight through the serial port.

Printing option and patterns are controlled by 4 SETUP parameters.

They are a) Print :	There are 4 options
I) SloglE	- Press key to start printing weight and other details programmed as per (b), (c) and (d) below.
ii) SEABLE	- Printing is initiated when the weight kept on the pan becomes stable.
iii) ALL	- All the displayed weights are printed along with other details programmed as per (b), (c) below.
<sub>iv)</sub> SeorE	To print weights stored in memory along with details programmed as per (b) & (c) below.
b) Pr.Fił	Printer format. 6 printout formats are available.
ii)PrF-2 iii)PrF-3 iv)PrF-4 v)PrF-4 v)PrF-5	<ul> <li>Only weight.</li> <li>Serial no and weight.</li> <li>Serial no, Date and weight.</li> <li>Serial no., Time and weight.</li> <li>Serial no., Date, Time and weight.</li> <li>Weight slip printing.</li> </ul>

#### c) P-TYPE Print type (Horizontal or Vertical)

I) PLYPE1 – Horizontal Details will be printed horizontally.

Sr.No.DateTimeWeight00112.05.200213:25:0023.54 g00212.05.200213:27:0523.23 g

ii) P.ESPE2 - Vertical

Details will be printed vertically in a slip form.

For ex. Sr.No. : 001 Date : 12.05.2002 Time : 13:25:00 Weight : 24.45 g

Set the above parameters (a) to (c) to your requirements and effect printing. These parameters are available in SETUP functions.

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### **BALANCE OPERATIONS & FUNCTIONS**

#### 5) BI-DIRECTIONAL RS232-INTERFACE.

Bi-directional RS-232 interface is provided in these balances to communicate with devices like computer, printer etc. The interface is provided through a nine pin D-type connector provided at the rear side of the balance. Connections are as below.

Pin 2 – RXD – Receive Data Pin 3 - TXD – Transmit Data Pin 7 – Ground.

The Serial data transmitted and received are in standard ASCII mode (+/-15V)-ASYNCHRONOUS, 8 BITS, NO PARITY, 1 STOP BIT.

Baud rate : 2400 OR 4800 SELECTABLE.

The data format for weight output is

<+/->WWWWWWWWb <bg/Ct> <CR><LF> (15 characters) where WWWWWWWW is the weight

b – blank space - 20 hex

CR- Carriage Return – 0D hex

LF – Line feed - 0A hex

for example, weight 85.12 g will be sent as

+ 0 0 0 0 8 5 . 1 2 b	b g CR LF
-----------------------	-----------

where b=black(20H), CR=carriage return (0dH) LF=line feed (0a H)

The balance could be controlled by an external device like computer with the following commands.

Z - Tares the balance.

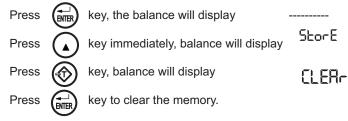
 $\ensuremath{\mathsf{W}}\xspace\#$  - Number of times, the weight data is to be transmitted through the serial port.

# can be any number from 1-9.

#### 6. STORAGE OF WEIGHTS IN MEMORY:

Upto 100 weights can be stored in memory and recalled if required. The balance also computes the total weight of all the weights in memory. To use this option, set ACCU function to ON in SETUP functions.

#### a) Clear weights in memory.

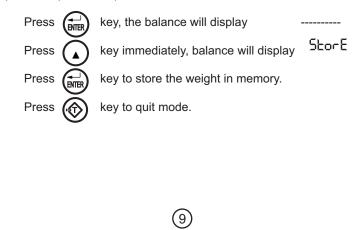


Weights in memory and total weight will be cleared.

#### b) Storing weight in memory.

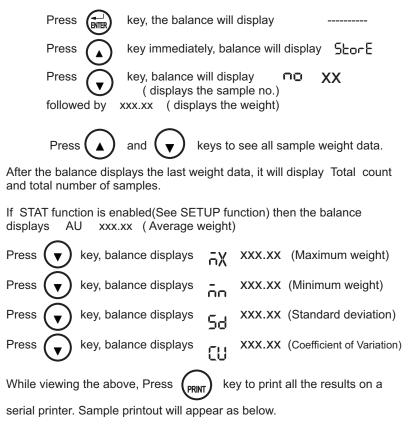
Remove all the weights from the pan and make the weight zero by pressing key.

Keep the sample on the pan and wait till the count becomes stable.



### **BALANCE OPERATIONS & FUNCTIONS**

c) Recalling weights from memory.



(Set P	RINT option t	o" StorE	"	in SETUP)
Sr.no. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	DATE 12.10.04 12:10.04 12.10.04 12.10.04 12.10.04 12.10.04 12.10.04 12.10.04 12.10.04 12.10.04	JEOFE           TIME           13:30:20           13:31:05           13:31:25           13:31:50           13:32:05           13:32:40           13:32:55           13:33:20           13:33:55           13:34:30		WEIGHT 12.56 g 12.50 g 13.40 g 12.90 g 12.03 g 12.30 g 12.36 g 13.00 g 11.95 g 12.50 g
TOTA AVER MAXII MINIM STD. I C.V.	AGE MUM IUM	: 125.7 12.57 11.95 13.40 0.43 3.50%	′g ig )g	)

(11)

### **BALANCE OPERATIONS & FUNCTIONS**

#### 7) AUTO POWER OFF

CTL-CTB Series weighing balances have a built in auto power off facility, where in the displays will be switched off, if no keys are operated for approx. 5 minutes. This will reduce power consumption and if the balance is being used with battery, it can enhance the discharge time of battery.

To come out of Auto Power Off mode, Press



Ensure to enable this feature in the SETUP mode.

#### 8) POWER SAVING MODE

Power saving mode feature will further enhance the battery backup time by switching off the display whenever the weight displayed is zero. The balance will come out of Power saving mode when the displayed weight is not zero.

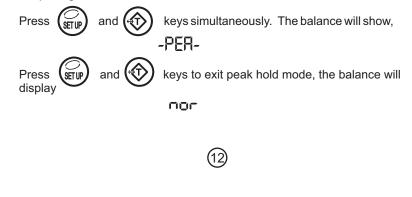
To enable this feature , refer SETUP mode.

#### 9) PEAK HOLD MODE

Peak hold feature will enable the balance to hold the display to the maximum weight (Peak weight) displayed. When used in this mode, the balance will be continuously displaying the maximum or peak weight measured by the balance, even after the weight is removed from the pan. This feature is optional.

For using this mode, this function should be enabled in the SETUP mode.

For putting the balance into PEAK HOLD mode,



#### 10) PIECE COUNTING MODE

Contech CTL- CTB series balances can be used for piece counting purposes also. Piece calibration of 25 items can be stored in memory. Accuracy of piece counting depends on the uniformity in weight of the items and the sample size used for piece calibration. Better the weight uniformity and more the sample size, better will be the accuracy.

Use SETUP function to select proper piece counting mode before using. There is an option to select 1, 10, 25 or none piece counting modes. See relevant section in SETUP functions for more details.

#### Selection of piece counting memory (item)

Press ( ) or ( ) keys till the balance displays

Press or keys to change between different piece counting

#### **Piece Calibration**

Select proper piece counting memory as mentioned above.

Make the Weight read zero by pressing the () key. Weight of any

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 $\widehat{}$ 

key.

container/bags used should also be made zero by pressing

Keep known number of pieces on the pan.

Press ( F ) key, the balance will display

PC xxxx

## **BALANCE OPERATIONS & FUNCTIONS**

Use and v k

keys to change the number of pieces and make it

to the pieces kept on the pan.



1

Balance does piece calibration and displays the number of pieces on the pan, say  $% \left( {{{\mathbf{x}}_{i}}} \right)$ 

250

#### 11) OPERATING IN SIMPLE TARE MODE:

In SIMPLE mode, balance can be operated in its simplest mode. In this mode,



to make the weight zero.

All other functions will be disabled

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#### 12) DENSITY DETERMINATION OF SOLIDS

This is an optional feature, valid only if this facility is available in the product supplied. Balance calculates the density of solids based on Archemedis principle and displays it. The sample is weighed in both Air & Water and the balance calculates the density. There is a provision for entering the water temperature, so that necessary correction is applied for calculating density.

There are 2 types of density measurements.

#### 1. Normal mode

D = Weight in Air D = OL x DW (Weight in Air - Weight in Liquid)

D – Density

DL – liquid density (Programmable)

DW – Density of Water at measuring temperature.( If water is used)

For DW, Water temperature is programmable from 10 to 50 deg.C

DL is also programmable.

If DL is set to 1.0000 then water temperature correction will be applied.

If DL is set to a value other than 1.000 then water temperature correction will not be applied.

For example Weight in Air = 8.323g , Weight in water = 6.222g Water temperature = 25deg. Liquid density = 1.0000

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Density = 3.9497 g/cc

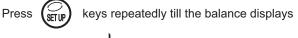
### **BALANCE OPERATIONS & FUNCTIONS**

#### 2. SETTING WATER TEMPERATURE

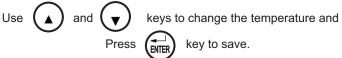
Measure the temperature of water with a good thermometer. Set the temperature value in the balance by the following.

Press Key, the balance will show SEL UP

If date/time or limit functions are enabled balance goes through those entries.

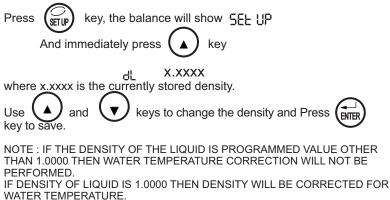


where xx is the currently stored temperature in memory.

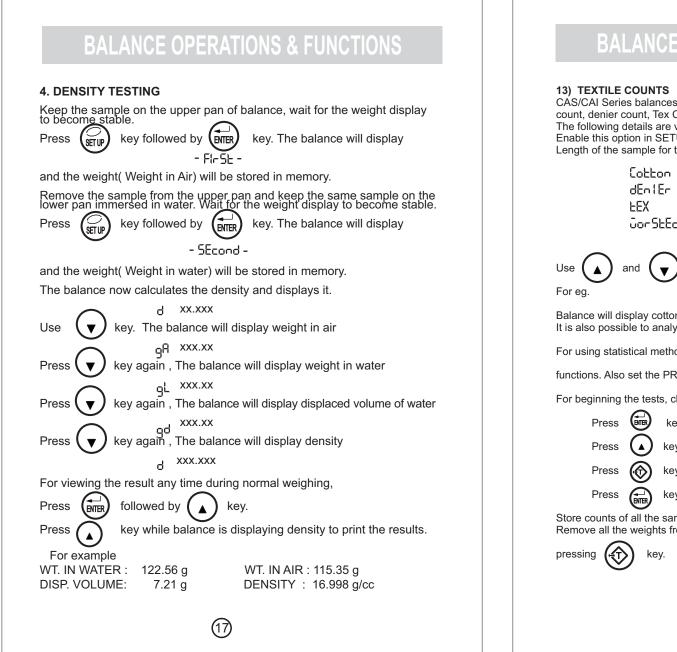


Note that maximum temperature cannot be more than 50 deg.

#### 3. SETTING DENSITY OF LIQUID







CÁS/CAI Series balances directly calculate and display textile counts like cotton count, denier count, Tex Count, Worsted Count and sliver. This is an optional feature. The following details are valid, only if this feature is available in the balance. Enable this option in SETUP functions. (See Setup functions for more details). Length of the sample for the above counts are as follows.

Cotton dEn I Er tEX Jor StEd	Cotton count Denier count Tex count Worsted count Sliver	- 120 yd. - 90 m. - 10 m - 10 yd. - 10 yd.	
Jse 🛕 and 🔻	keys to change the u	ınit ,	
For eg.			
Balance will display cotton of the total to a state to		sistency using	g statistical method.
For using statistical method	, enable the SEA	and ACC	U options in SEE UP
unctions. Also set the PRIN	IT option to StorE		
For beginning the tests, clea	ar the memory by the	following.	
Press 🗰 key,	the balance will displa	ay -	
Press 🛕 key i	mmediately, balance	will display	StorE
Press 厥 key,	balance will display		CLER-
Press key t	o clear the memory.		
Store counts of all the same Remove all the weights fror			
pressing 😥 key.			
Ŭ			
	18		

BALANCE OPERATIONS & FUNCTIONS         Keep the sample on the pan and wait till the count becomes stable.         Press	
Press       Image: Key, the balance will display          Press       Image: Key immediately, balance will display       5Lor E         Press       Image: Key to store the count in memory.       Store all the counts in memory with above procedure. For viewing sample data	
Press key immediately, balance will display 5EorE Press key to store the count in memory. Store all the counts in memory with above procedure. For viewing sample da	
Press key to store the count in memory. Store all the counts in memory with above procedure. For viewing sample da	
Store all the counts in memory with above procedure. For viewing sample da	
	ata and
Press key, the balance will display	
Press 🔊 key immediately, balance will display StorE	
Press key, balance will display no XX (displays the sar followed by XXX.XX (displays the con	•
Press and keys to see all sample data. After the balance d the last data, it will display Total count and total number of samples. Then it display total count and total number of samples.	
Press AU xxx.xx (Average count) key, balance displays - xxx.xx (Maximum count)	
Press key, balance displays xxx.xx (Minimum count)	
Press vey, balance displays xxx.xx (Standard deviation	)
Press key, balance displays	ation)
While viewing the above, Press key to print all the results on a serial Sample printout will appear as below. <b>sr.no.</b> COUNT 1. 12.56 CC	l print
1.       12.50 CC         3.       13.40 CC         4.       12.90 CC         5.       12.03 CC         6.       12.30 CC         7.       12.56 CC         8.       13.00 CC         9.       11.95 CC         10.       12.50 CC	
(19)	

#### 14) GSM APPLICATION

CTL - CTB series balances can be used to determine GSM(Grams per Sg.meter). The following description is valid only if this feature is available in the balance and enabled. The balance displays directly the GSM value of fabric or paper of specified area. Enable GSM feature in the SETUP functions. 5 pre-programmed area (rectangular or round) are available in the balance. Standard areas are: 1. 5 X 5 cm 2. 10 X 10 cm 3. 20 X 20 cm 4. 25 X 20 cm 5. 25 X 25 cm Select GSM mode: keys to change till the balance displays -qS-Use and T Balance now enters GSM mode. For changing the area, Press  $\begin{pmatrix} \leftarrow \\ enter \end{pmatrix}$ key, the balance displays ------key immediately, balance displays Press XX.XX Repeat the procedure till desired area is selected. **15) PERCENTAGE WEIGHING** Selection of percentage weighing mode. keys till the balance displays Press or T PERCENTAGE weighing function is used to determine % weight gain/loss. Any weight within the capacity can be set to be 100%. The balance displays the weight gain/loss in % of the original weight. This function must be enabled using SETUP function. This feature is very useful in determining % loss/gain in moisture in food/tea/pharmaceutical industries. For eg. Keep a 25g weight on the pan. key, the balance calibrates 25g as 100% and F Press displays 100.0 After this any change in weight on the pan will be indicated as % of original weight(25g), till the balance is calibrated for100% with another weight. (20)

#### 16) AUTOCALIBRATION WITH STANDARD WEIGHTS

CTL - CTB Series balances can be calibrated for weight with standard mass. Balances can be calibrated with 100g, 200g, 500g and 1000g weights depending on the models.

Models upto 1kg can be calibrated with 100g,200g,500g, 1000g weights Models upto 600g can be calibrated with 100g,200g,500g weights Models upto 350g can be calibrated with 100g,200g weights Models upto 300g can be calibrated with 100g,200g weights Models upto 220g can be calibrated with 100g,200g weights Models upto 125g can be calibrated with 50g, 100g weight.

Enable calibration function in SETUP mode before attempting to calibrate the balance.(Refer SETUP functions for more details). This function should not be made available to the end user, if there is any restriction in usage of this function.

#### CALIBRATING THE BALANCE

Use only good calibrated weights for performing auto calibration. Press  $\bigwedge$  key to make the weight read zero.

Keep the standard mass on the pan and wait for it to become stable.

Press (F) key

 Balance will display
 ----- 

 And will subsequently display
 CRL donE

For setting balance calibration back to default factory setting,

Press  $(\overbrace{SETUP})$  key and immediately press (F) key.

Balance will display - - EF-ESH -Balance weight calibration will now be restored to factory settings.

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### **BALANCE OPERATIONS & FUNCTIONS**

#### **17) WEIGHT SLIP PRINTING**

In this mode, the balance prints weight with date, time and details of the articles like gold/silver/diamond.

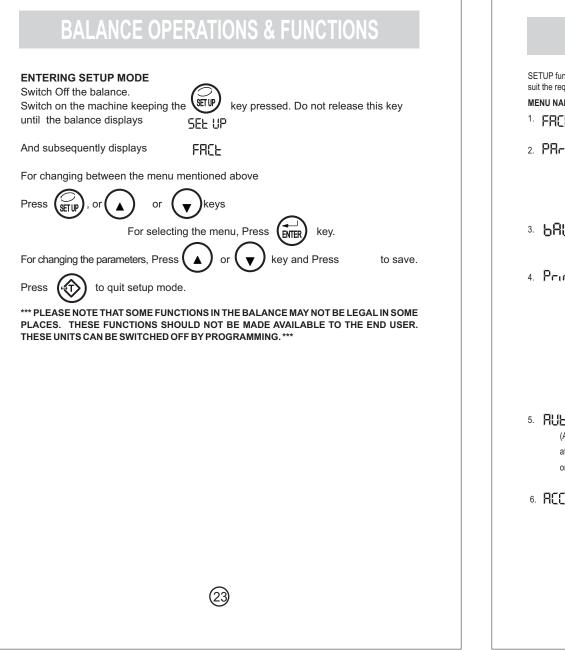
To use this mode, set PRINT option to  $P_{-}F_{-}G$  in SETUP mode. To select the item, Press (SETUP) key followed immediately by key, the balance will display -goldto select item gold or press (SETUP, key followed immediately the balance will display -SILto select item Silver or press key followed immediately SETUP the balance will display -dlAto select diamond.

Set Date and time as given earlier in the manual (Refer to section on Changing date, time, Sr.no.)



key to print the slip. A sample printout will appear as below.

XYZ Co. ADDRESS ADDRESS
Sr.No : 23 Date : 11.09.2006 Item : GOLD Weight : 11.250g
 Charges : Rs/-
Thank You. Visit again
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### **SETUP FUNCTION**

SETUP functions control the basic operation of the balance. There are 29 parameters, which can be set by the user to suit the requirements. The following are the parameters.

	NU NAME	FUNCTION	OPTIONS	DESCRIPTION
1.	FACE	Factory setting		To select factory set parameters.
2.	PRrtS	Piece counting modes	PR-t-1 PR-t-10 PR-t-25 <b>00</b> PR-t	To select single piece counting memory. To select 10 piece counting memory. To select 25 piece counting memory To disable piece counting.
3.	PNN9	Baud rate setting	695400 694800	To select 2400 baud rate To select 4800 baud rate
4.	Print	Print modes set.	Single	Send stable weight through serial port
				when <b>PRINT</b> key is pressed.
			SEb	Send weight through serial port
			ALL StorE	Every time balance reading becomes stab Send weight continuously. Send stored weights through serial port.
5.	(Ability	Auto zero setting of the balance to remain when there is no weight ban.	8-0 8-1 8-2 8-3	Autozero disabled. Autozero to half accuracy of balance. Autozero to full accuracy of balance. Autozero to twice the accuracy of balance
6.	RCCU	Weight storage mode	Ac-no Ac-985	Weight storage disabled Weight storage enabled

# SETUP FUNCTIONS

7. <b>-CAL-</b>	Auto calibration	(AL-oFF (AL-on	Autocalibration disabled Autocalibration enabled
8. <b>(A-RE</b>	Carat weighing	(rt-off (rt-on	Carat weighing disabled Carat weighing enabled
9. <b>EolA</b>	tola weighing	tol-off tol-on	Tola weighing disabled Tola weighing enabled
10. <b>GrAin</b>	Grain weighing	GrAin-oFF GrAin-on	Grain mode disabled Grain mode enabled
11. <b>65</b> 5	GSM	657-0FF 657-00	GSM mode disabled GSM mode enabled
12. <b>RP()</b>	Auto Power Off	820-off 820-on	Auto Power off disabled Auto Power off enabled
13. <b>P5</b> .	Power saving mode	P57-0FF P57-00	Power saving mode disabled Power saving mode enabled
<sup>14.</sup> P-Hold	Peak hold mode	РНЕ-оЕЕ РНЕ-оп	Peak hold mode disabled Peak hold mode enabled

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# SETUP FUNCTIONS

15. <b>3d-5EE</b>	Third decimal mode	₽ <del>3</del> 8 -0 <sup>₽₽</sup> ₽ <del>3</del> 8 -0∩	Third decimal mode disabled Third decimal mode enabled
<sup>16.</sup> <b>E.ELE</b>	Title printing	ELE -off ELE -on	Title printing disabled Title printing enabled
17. <b>P-ŁYPE</b>	Select printing mode	P-EYPE ( P-EYPE 2	Horizontal Printing mode Vertical Printing mode
18. Pr.Fmt	Select print formats	Pr,F ( Pr,F 2 Pr,F 3 Pr,F 4 Pr,F 5 Pr,F 6	Only weight Sr.no. Weight Sr.no., Date, Weight Sr.no., Time, Weight Sr.no., Date, Time, Weight Weight slip Printing
19. ZERO	Decimal changed	ZERO-off ZERO-on	Default zero on/off
<sub>20.</sub> SEE-PE	Select set point mode	582-1 582-2	Single set point 2 set points.
<sub>21.</sub> F-Lype	Select set point type	F-EABE : E-FABE 5	+ve Logic outputs for fill application -ve Logic outputs for fill application
22. <b>dEnS</b>	Density mode	dEnS-oFF dEnS-on	Density mode off Density mode on.
<sub>23.</sub> Count	Textile count mode.	Count-off Count-on	Textile Count mode off Textile Count mode on.
24. SERE	Statistical report mode	SEAE-off SEAE-on	Statistical report off Statistical report on.
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# **SETUP FUNCTIONS**

### Factory default parameters.

PR-t-1	To select single piece counting memory
6d4800	To select 4800 baud rate
Single	Send stable weight through serial port-
8-1	Autozero to half accuracy of balance
Ac-no	2
(RL-off	Weight storage disabled
(rt-off	Autocalibration disabled
	Carat weighing disabled
	Tola weighing disabled
655-off	Grain mode disabled
₽₽0-off	GSM disabled
PSR-off	Auto power off disabled
РНГ-0 <sup>ГР</sup>	Power saving mode disabled
939 -066	Peak hold mode disabled
ELE -off	Third decimal mode disabled
P-EYPE (	Title printing disabled
Pr,F (	Horizontal Printing mode
ZERO-off	Only weight
SEE-1	, ,
F-EYPE (	Default zero on/off
Count -off	Single set point
dEnS-oFF	+ve Logic outputs for fill application
SERE-OFF	Textile counts off
	Density type 1
	Statistical reports off-
	bd4800           SingLE           A-1           Rc-no           CRL-oFF           Crt-oFF           bd4800           GrAn-oFF           GrAn-oFF           GrAn-oFF           PSn-oFF           PSn-oFF           PSH-oFF           PSH-oFF           PSH-oFF           PSH-oFF           PSH-oFF           PSH-oFF           PSH-oFF           SEE-1           F-LSPE1           ZERO-oFF           SEE-1           F-LSPE1           Count -oFF           dEnS-oFF