

INSTRUCTION MANUAL

CONTECH

PRICE COMPUTING SCALES

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INTRODUCTION

Contech CT series PRICE COMPUTING SCALES use high precision loadcells to measure precisely the weight of an object.

Features:

- ** STORES PRICE OF 500 ITEMS.
- ** 3 BRIGHT LED DISPLAYS TO DISPLAY WEIGHT, UNIT PRICE AND PRICE
- ** STORES PRICE PER kg, PER 100g OR NUMBERS.
- ** NUMERIC KEYBOARD FOR EASY ENTRY OF UNIT PRICE
- ** BI DIRECTIONAL RS232 INTERFACE.
- ** POWER SAVING MODE
- ** OPTIONAL IN BUILT BATTERY BACKUP.
- ** PROGRAMMABLE SHOP NAME, ADDRESS
- ** BILL PRINTING FACILITY.
- ** MEMORY ADDITION AND RECALL FUNCTION.

INSTALLATION

Unpacking:

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

Electrical requirements:

The scale requires very stable power. It works on 230V AC supply with PROPER EARTHING. The power outlet used for the scale should not be shared with any other devices that draw current in inconsistent manner like Air conditioner or refrigerator etc. Scales supplied with optional inbuilt battery backup

Environmental requirements:

For best results, the scale should be placed on a level surface, which is free from drafts. It should not be exposed to direct sunlight or radiated heat. The scale should not be subjected to sudden ambient temperature changes. Table used for scale 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 as scale.

Start up.

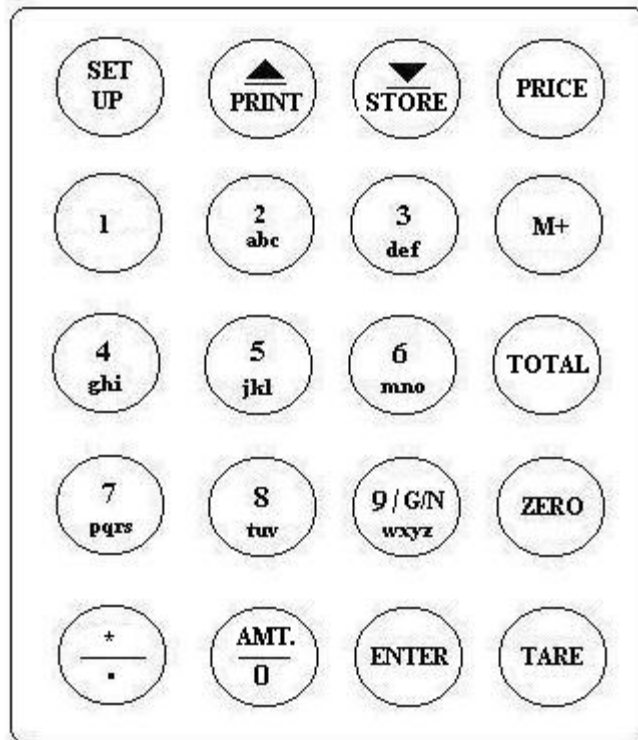
Power is supplied to the scale through a mains cord attached to the scale. Connect the mains cord to an AC mains outlet with proper earthing.

Scale goes through the self-test and subsequently starts displaying weight



Press  key to zero the weight, if required.

PRICE COMPUTING SCALE KEYBOARD & DISPLAY




DISPLAY



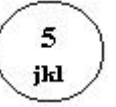

WEIGHT	UNIT PRICE
1.505	25.00
	PRICE Rs.
	37.60

SELECTING ITEMS.

Scales have a memory of 500. Prices of 500 items can be stored in memory. Scales retain the unit price even when it is switched off.


To switch between different items, Press item memory number and press  to select.

For example to select memory no. 125,

Press    and 

SETTING PRICE THROUGH KEYBOARD


Price can be either set through the keyboard.


For price entry, Press , Scale displays


WEIGHT	UNIT PRICE
PER kg	25.00
	PRICE Rs.
	no 10

UNIT PRICE display indicates the current price and *PRICE* display indicates the memory no.

WEIGHT display indicates price type i.e. per kg, per 100g or per no

Use  key to change the price type.
Use numeric keys to enter new price

Press  key to save price.

Press  to quit without saving.



1	2	3
4	5	6
7	8	9
$\frac{+}{\cdot}$	Amt 0	ENTER

SETTING DATE/TIME/PRICE/SHOP NAME/ADDRESS

Press  key.

The WEIGHT display window will display

DATE

Press  or  key to change between the following options.

MENU	DESCRIPTION
DATE	TO CHANGE DATE
time	TO CHANGE TIME
MACH-ID	TO SET MACHINE ID
Srno	TO SET SERIAL NO.
GETOTAL	TO RETRIEVE DATA
ITEMNAME	TO SET ITEM NAME
SHOP	TO SET SHOP NAME
Addr-1	TO SET ADDRESS 1
Addr-2	TO SET ADDRESS 2
Addr-3	TO SET ADDRESS 3
Addr-4	TO SET ADDRESS 4

Press  to select an option.

SETTING DATE:

Select date option from the menu, Scale displays

WEIGHT	UNIT PRICE
DATE	
	PRICE Rs.
	23.03.11



PRICE display indicates the current date. Use numeric keys to change date and Press **ENTER** to save.

SETTING TIME:

Select TIME option from the menu, Scale displays

WEIGHT	UNIT PRICE
time	
	PRICE Rs.
	12.18.35



PRICE display indicates the current time. Use numeric keys to change time and Press **ENTER** to save.

CHANGING BILL NO.

Select Sr.NO. option from the menu, Scale displays

WEIGHT	UNIT PRICE
Srno	
	PRICE Rs.
	1



PRICE display indicates the current serial no. Use numeric keys to change and Press **ENTER** to save.

SETTING ITEM NAME:

Select ITEM NAME option from the menu, Scale displays









PRICE display indicates the current item name with first character flashing.

The character, which is flashing, acts like a cursor for entry.

To change the character which is flashing,
Keep the appropriate numeric key pressed, till the desired character appears on the display.
Now release the key immediately.

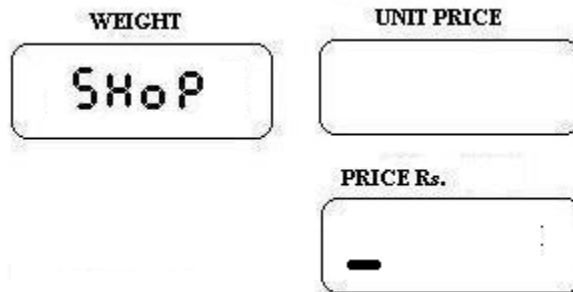
Now the cursor automatically moves right to the next character.

Repeat the above till the required name is entered.

- Press  key to move the cursor right, if required.
- Press  key to move the cursor left, if required.
- Press  key to save the item name. The entry advances to the next item.
- Press  key to advance to the next item without saving.
- Press  key to go back to the previous item without saving.
- Press  key to quit item name entry.

SET SHOP NAME ,ADDRESS AND MACHINE ID.

Select SHOP option from the menu, Scale displays





PRICE display indicates the current shop name with first character flashing.
The character, which is flashing, acts like a cursor.


To change the character which is flashing,
Keep the appropriate numeric key pressed, till the desired character appears on the display.
Now release the key immediately.

Now the cursor automatically moves right to the next character.

Repeat the above till the required name is entered.

Press  key to move the cursor right, if required.

Press  key to move the cursor left, if required.

Press  key to save the shop name.


For ADDRESS line1 select ADR-1 from the menu and so on

Select REQUIRED ADDRESS option and repeat the above procedure as in case of SHOP name entry.

TRANSACTION AND PRINTING OF BILLS

TRANSACTION ENTRY.

1. Keep the item on the weighing pan and select the item.
2. Wait for weight display to become stable.

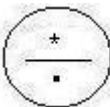
3. Press  key. Display momentarily shows

WEIGHT	UNIT PRICE
1.505	37.60
	PRICE Rs.
	total

UNIT PRICE display indicates the total transaction value.

4. Remove the item from the pan.
5. Keep next item and select the item no.
6. Repeat from STEP 3 and continue till all the items have been stored.

If the selected item is sold by numbers, then


- Press  key, Display shows

WEIGHT	UNIT PRICE
	no 4
	PRICE Rs.


Enter quantity in *PRICE* display area and press .

DELETING AN ENTRY:

To delete an entry from the above,



Press  key the display shows

WEIGHT	UNIT PRICE
	372.20
	PRICE Rs.
	total

Immediately press  key. The display shows the first item

For e.g. Say apple.


WEIGHT	UNIT PRICE
1.018	APPLE
	PRICE Rs.
	152.70

Press  or  keys to see all the items in the transaction.


To delete an entry, Press  key. Display shows

WEIGHT	UNIT PRICE
dELEtE	APPLE
	PRICE Rs.
	152.70

Press  to delete the entry

Press  to quit the operation

PRINT BILL :

Press  key to see the total amount any time during weighing.

Press  key to print the bill.

XYZ CO LTD
ADDRESS

CASH MEMO

BILL NO: 1 DATE: 18.02.11 TIME:15.31.35

SR.	ITEM	QTY (Rs.)	RATE (Rs.)	PRICE
1	APPLE	1.018 kg	150.00	152.70
2	GRAPES	1.044 kg	120.00	125.30
3	ORANGE	1.190 kg	80.00	95.20

TOTAL: 3 ITEMS AMOUNT:Rs. 373.20

If **bil.inc** option is set to **inc-on** then the item weights along with their prices will be added to total memory of individual items and bill number will be incremented.

If **bil.inc** option is set to **inc-of** then,



Press **STORE** key to add the item weights along with their prices to the total memory of individual items. Bill number will also be incremented.

TO ENTER TENDERED AMOUNT



To enter the tendered amount, Press **AMT.** key.

Use numeric keys to enter tendered amount in the *UNIT PRICE* display area.



Press **ENTER** key.

Scale calculates the change amount and displays change in the *PRICE* display area

WEIGHT	UNIT PRICE
CHANGE	200
	PRICE Rs.
	82.50

TO ABORT A TRANSACTION



Press **TOTAL** key the display shows


WEIGHT	UNIT PRICE
	372.20
	PRICE Rs.
	total



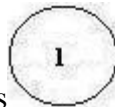
Immediately press **TARE** key. All the items entered will be deleted and total value is made zero.

HOLD FUNCTION


Weighing can be held temporarily by using HOLD function.


Keep the key  pressed for more than 3 sec. Scale will display




Press  key to quit this mode.

GROSS/NET FUNCTION


Keep the key  pressed for more than 3 seconds to switch between GROSS and NET weight function. To use this function,

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

Keep container on the pan , if required, and Press  key to zero the weight.

Keep sample on the pan.

Press  to switch between GROSS and NET weight mode.

When  key is pressed. Scale returns to NET weight mode and container/tare weight will be made zero ,

RECALLING DATA FROM MEMORY.


Select **9 total** from SETUP menu. Display shows

WEIGHT	UNIT PRICE
12.500	no 1
	PRICE Rs.
	1875.00

WEIGHT display shows the total quantity sold and PRICE display shows the total price of Item no.1

Press  or  key to recall all the stored data.

TO PRINT REPORT


Press  key. Report will printed in the following manner

DAILY SALES REPORT ... DATE:18.02.11

ITEM	WT.	PRICE
APPLE	4.582 kg	687.30
GRAPES	9.618 kg	1154.10
ORANGE	3.222 kg	257.80
TEA 500G	1. Nos	175.00

TOTAL SALES: 2274.20 TOTAL TRANSACTIONS: 5 nos.

TO ERASE ENTIRE MEMORY :

Press  key, scale displays

WEIGHT	UNIT PRICE
CLR.ALL	no 1
	PRICE Rs.
	1875.00

Press  key

WEIGHT	UNIT PRICE
dATA	CLEAR
	PRICE Rs.

All the stored data will be erased.

Press  key to quit.

BIDIRECTIONAL RS-232 INTERFACE.

Bi-directional RS-232 interface is provided to communicate with peripheral devices like computer, printer etc. The interface is provided through a nine pin D-type connector provided. 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 - ASYNCHRONOUS , 8 BITS, NO PARITY, 1 STOP BIT.

Baud rate : 2400 OR 4800 SELECTABLE.

The data format for weight output is

<+/->WWWW.WWb <UU>bPPPPPPnos <CR><LF>

where WWWWWW.WW is the weight

PPPPPP - count

b – blank space - 20 hex (32 DEC)

CR- Carriage Return – 0D hex(13 DEC)

LF – Line feed - 0A hex (10 DEC)

UU – weighing unit (for example **kg**)

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

Z - Tares the balance. (Make weight and count reading zero)


T - Tares the balance. (Make weight and count reading zero)

W1 – Request for weighing data

However scale can be operated in a continuous data transfer mode when it will send data continuously as it measures. This can be set using scale keyboard.

SETUP FUNCTIONS

SETUP functions control the basic operation of the SCALE. These parameters can be set by the user to suit the requirements. The following are the parameters.


<u>MENU NAME</u>	<u>FUNCTION</u>	<u>OPTIONS</u>	<u>DESCRIPTION</u>
FACTORY	Factory setting		To select factory set parameters.
BAUD	Baud rate setting	bd2400	To select 2400 baud rate
		bd4800	To select 4800 baud rate
Print	Print modes set.	SINGLE	Send stable weight through serial port when  key is pressed.
		Stb	Send weight through serial port Every time scale reading becomes stable.
		ALL	Send weight continuously.
AUTO-0	Auto zero setting. (Ability of the scale to remain at zero, when there is no weight on the pan.)	A-0	Autozero disabled.
		A-1	Autozero to half accuracy of scale.
		A-2	Autozero to full accuracy of scale.
		A-3	Autozero to twice the accuracy of scale.
CAL	- Auto calibration	CAL-off	Autocalibration disabled
		CAL-on	Autocalibration enabled
PS \bar{n}	- Power saving mode	PS \bar{n} -off	Power saving mode disabled
		PS \bar{n} -on	Power saving mode enabled
3d-Set	- Third decimal mode.	P3d-off	Third decimal mode disabled

		P3d-on	Third decimal mode enabled
bill.no	- Bill no. printing	bill.of	Bill no. printing disabled
		bill.on	Bill no. printing enabled
bil.inc	- Automatic bill increment.	inc.of	Bill increment off
		inc.on	Bill increment on
rnd.off	Price round off	rnd-0	- No round off
		rnd-5	- Round off nearest 5 paise
		rnd-10	- Round off to nearest 10 paise
tot.rnd	- Total round off	trnd.of	Total round off disabled
		trnd.on	Total round off enabled
RESP	- Response	r-nor	Normal Response
		r-fast	Fast Response
-Stb-	- Select print formats.	Stb-0	- Stability 0
		Stb-1	- Stability 1
		Stb-2	- Stability 2
		Stb-3	- Stability 3
-Lin-	- Linearity	Lin.off	Linearity off
		Lin.on	Linearity on.

ENTERING SETUP MODE

Switch Off the Scale.







Switch on the machine keeping the  key pressed. Do not release this key until the scale displays




SETUP

And subsequently displays

FACTORY

For changing between the menu mentioned above Press  , or  or  keys

For selecting the menu, Press  . key.

For changing the parameters within a menu,, Press  OR  key and Press  to save.

Press  to quit setup mode.

DEFAULT FACTORY SETTINGS

baud	bd4800	To select 4800 baud rate
Print	single	Send stable weight through serial port
Auto-0	A-1	Autozero to half accuracy of scale.
CAL	CAL-off	Autocalibration disabled
PSn	PSn-off	Power saving mode disabled
3d-Set	P3d-off	Third decimal mode disabled
bill.no	bill.of	Bill no. printing disabled
bil.inC	inC-of	Bill increment off
rnd.off	rnd-0	No round off
tot.rnd	trnd.of	Total round off disabled
RESP	r-nor	Normal Response
-Stb-	Stb-0	Stability 0
-Lin-	Lin-off	Linearity off