

Operation Manual

TVP-B/TVP-P **Price Computing Scales**

V1.08

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1. INTRODUCTION

- ✓ TVP-B, TVP-P series of economic price computing scales are very compact, reliable, high accuracy and much stable.
- ✓ It use LCD display with white LED back light, with the different back light operation.
- ✓ 10 indirect PLU ,it can store 10 unit price values
- ✓ Accumulation and change function
- ✓ Auto unit price clear operation
- ✓ Weighing units conversion(kg/lb/oz)
- ✓ Standard RS-232 can be connect to receipt and label printer

2. KEY DESCRIPTION

Keys	Description
ZERO	Returns the display to zero. In parameter settings, to escape from the menu
TARE	Subtracts the tare values, change to gross to net mode and enter parameter settings.
SAVE	Enter to auto clear mode
CH	Used to do memory recall, give change and memory clear
M+	Add the current data aggregated. In parameter setting mode, used to scroll up the menu, Used to print out a label or receipt papet
UNIT	Used to change unit (lb / oz / kg)
PLU	Used to store or recall unit price, In parameter setting mode, used to scroll down the menu
C	Used for canceling the memorized and input data.
0~9	Used for setting unit price data.
•	Decimal Point key is used to set the decimal of the unit price
QTY	Quantity key, use for without weighing.

3. DISPLAY SYMBOLS

Symbols	Description
BATT.	Battery indicator. When it's illuminated, battery should be recharge
NET	Net Weight
STABLE	Stable indicator. When it's illuminated, the scale is stable
ZERO	Zero indicator. When it's illuminated, the scale is in Zero point
lb/oz/kg	Current weighing unit

SAVE	Save Indicator
CHARGE	Battery charging indicator
ACC	Accumulation indicator
CH	Check out indicator
PT	Pre-tare indicator

4. GENERAL INSTRUCTION

1. When battery goes low, the BATT symbol indicator will be show on automatically. It is the time to charge the battery with the AC power. If scale goes on being used without proper charging, the display window will show "BAT LO" every 5 minutes, and scale would be shut down automatically after 2 hours of warning in order to protect the battery. Please charge the battery immediately, or scale cannot be used. To charge battery, just plug AC adapter or main power cord, scale turn on power is not necessary.

2. There is an LED left side of the total price display window to indicate the status of battery charging. If the LED is green the battery has a full charge. and red indicates the battery is being charged. please keep charge battery at least 1 hour after LED turn to green to insure full charge.

3. Before starting using scale, please check if the bubble is in the middle of the level ; if not, please make appropriate adjustment.

5. BASIC OPERATION

5. 1 Power ON/OFF

Power switch is located below the right side of the scale. Switch on the scale by pressing on/off. The display is switched on and the self test is started. If you want to switch off press again the key.

5. 2 Zero the scale

When there is no item on the scale but reading is not zero, press the **ZERO** key to turn on **ZERO** indicator. When the weight goes over 2% of the full capacity, "read zero" function is obsolete.

5.3 Tare

Put container on the platter, once the weight reading is stable, press the TARE key, the TARE indicator will be on and the container's weight will be deducted. When it is time to clear the TARE, take off the container, and press TARE key again.

5.3.1 Pre-tare

This method allows you to enter a value for the tare weight from the keypad. This is useful if all containers are the same or if the container is already full but the net weight is required and the weight of the container is known.

- Ensure display is in zero.
- Enter the known tare weight by using numeric keys.
- Press TARE to enter, weight will be stored as tare weight and displayed with minus sign, the stable, zero, net and PT indicator will be on.
- Place the container on the platform, net weight will be displayed.

5.4 Overload Warning

Please do not add item that is over the maximum capacity.

When reading "—OL—" and hear beeping sound, remove the item on the platter to avoid damage to the load cell.

5.5 Unit price setting

To trade with your scale, it is necessary to setting a unit price of the goods, scale then uses this unit price to determine how much that goods are on the platter.

When scale displaying the weight of the goods placed on the scale, set the unit price through numeric keys. Set unit price is showed in **UNIT PRICE** window display, **TOTAL PRICE** window display shows the total price of the goods. To cancel the previous unit price, press **C** key .

5.6 Change unit

You can use the **UNIT** key to change unit(kg/lb/oz). Press **UNIT** key will change the weighing unit circularly, and the pertinent indicator will on.

6. ACCUMULATOR OPERATION

6.1 Prepare to accumulate

The scale can be set to accumulate manually by pressing M+ key,

To enable the accumulation function on, see parameters *F 1 l r 5 2 3 2 > n o d E > E P 5 0*

Confirm the platter is empty, the current accumulator values is reset to zero, and the weight reading is stable. only when weight more than 20d

6. 2 Accumulative operation

Put the weighing item on platter, wait for the weight reading to be stable, press the **M+** key, the window will show **total x**, this is current total value.

6. 3 Account operation

To enable the change function on, see parameters *F 12 CHANGE > on*

After do accumulate operate, you can press **CH** key, WEIGHT window will show the summed price, key in paid money by keyboard, this will show on Unit Price window, and the Total Price window will show the return value.

Press **TARE** key to return normal weighing mode and clear memory, if you don't want clear memory, press **ZERO** key to return normal weighing mode.

Note: if you haven't do accumulate operation, you also can use Account function, the summed price is current total price.

7. UNIT PRICE MEMORY

Scale can store 10 sets unit price.

7. 1 Save the unit price

Hold the **PLU** key for 3 seconds after you key in the unit price, it will show "SAVE POS", press numeric key 0~9 to select which memory location you want to use. After you do, the unit price is stored in the scale.

7.2 Load the unit price

If you want to use the unit price stored in the scale, press **PLU** key, scale will shows "LOAD POS", press numeric key 0~9 to select which memory location's price you want to use, current unit price will change to the value stored in the memory.

8. OTHER FUNCTION

8.1 Backlight

In normal weighing mode, Press and hold **PLU** key until to show the display



Press the **M+** key to change the settings back light display mode to Auto / On /Off.

Display	Description
<i>bLSEt nōdE AUto</i>	Backlight will be turned on, when start to use or when weight is not in zero.
<i>bLSEt nōdE on</i>	Backlight will be turned always on
<i>bLSEt nōdE off</i>	Backlight function will be turned off

8.2 Automatic unit price clear

Scale can set automatic unit price clear, when return to zero, scale will clear the unit price automatically.

Press **SAVE** key will turn on / off automatic unit price clear function, when SAVE indicator on, automatic unit price clear disable when SAVE indicator off, automatic unit price clear enable.

8.3 Commodities Without Weighing

Using numeric keys to input unit price, Press **QTY** key to enter QTY mode

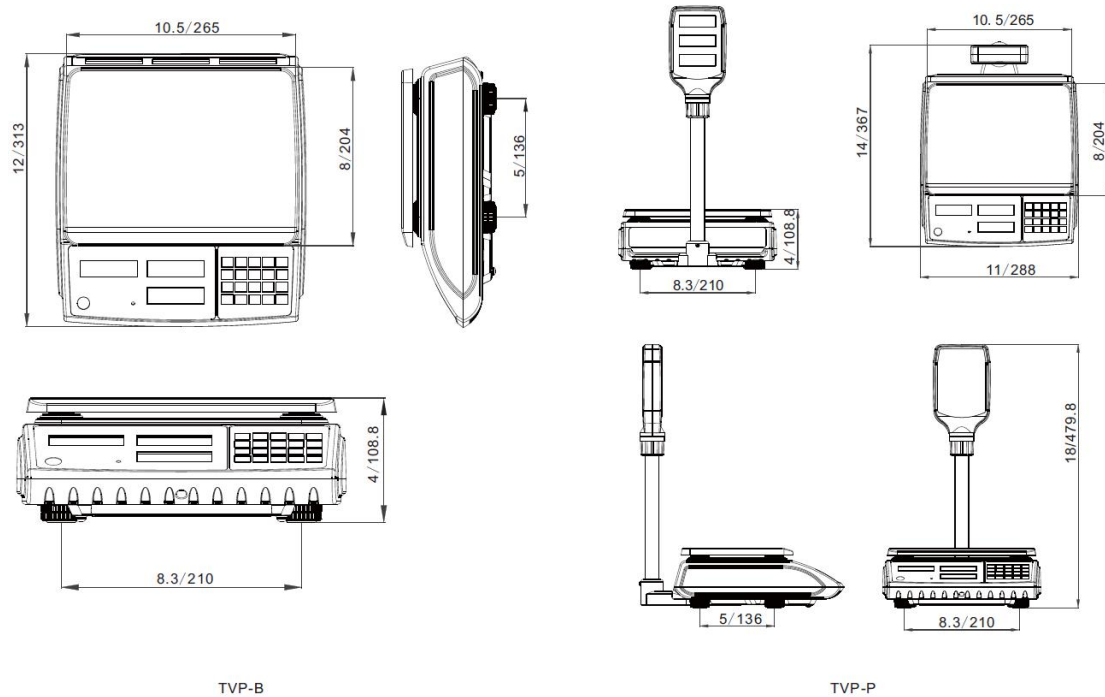
Using numeric keys to input quantity in the weight window, the total price will be show automatically

Press **QTY** key to return normal weighing mode.

9. SPECIFICATION

MODEL	TVP-12B/TVP-12P	TVP-30B/TVP-30P	TVP-60B/TVP-60P
Capacity	12lb / 6kg / 160oz	30lb / 12kg /480oz	60lb / 30kg / 960oz
Readability	0.002lb / 0.001kg / 0.05oz	0.005lb / 0.002kg / 0.1oz	0.01lb / 0.005kg / 0.2oz
Max. Divisions	6000e		
Weighing Units	lb / oz / kg		
Display	0.59inch /15mm digits LCD Display with white LED back Light		
Platter size	8 x 10.5inch / 204 x 265mm		
Housing	ABS Plastic and Stainless Steel pan		
Interface	RS232 Output standard		
Operation Temperature	14°F - 104°F / -10°C - + 40°C		
Power	AC Adaptor 12V/500mA , Rechargeable Battery 6V/3.2Ah		
Battery life	Approx.60 Hours LCD (no backlight)		
Keypad	20 membrane keys		
Dimensions (inch/mm)	Bench	10.5 (W) x 12 (D) x 4 (H) / 265 (W) x 313 (D) x 108.8 (H)	
	Pole	11 (W) x 14 (D) x 18 (H) / 288 (W) x 367 (D) x 479.8 (H)	
Gross weight	Bench	9lb (4.1kg)	
	Pole	9.9lb (4.5kg)	
Approvals	NTEP: Certificate No.19-038		

10. DIMENSIONS (inch/mm)



11. ERROR MESSAGE

Error Message	Description	Solution
<i>Err 4</i>	Zero setting error	Zero setting range exceeded due to switching on. Make sure platform empty.
<i>Err 6</i>	A/D value out of range	Make sure platform empty and check the pan is installed proper. Check the load cell connectors.
<i>Err 15</i>	Enter gravity error	Gravity rang(0.9~1.0)
<i>Err 19</i>	Initialize zero error	Calibration the scale.
<i>--oL--</i>	Over range	Remove the load. Re calibrate
<i>FR , L</i>	Calibration Error	Re calibrate
<i>bR Lo</i>	Battery low	Re charge battery, check the voltages.

12. SELECTING THE PRINTER

For printer setting, it need to enter the parameters settings to select F11> RS232 > mode > EP50/LP50, use M+ key to select options

Options	Description
<i>EP50</i>	Press M+ key to send data to DEP-50 receipt printer
<i>LP50</i>	Press M+ key to send data to DLP-50 label printer

13. RS232 OUTPUT

The TVP-B& TVP-P Series of scales can be ordered with a standard RS-232 output. It can be connected to DEP-50 receipt printer & DLP-50 label printer

13.1 Print Format

Receipt Format

=====	=====
weight unit price total	weight unit price total
(lb) (\$/lb) (\$)	(lb) (\$/lb) (\$)
=====	=====
0.30 1.99 0.60	0.30 1.99 0.60
=====	=====
Sum(\$)	0.60
=====	=====

Label Format

THANK YOU

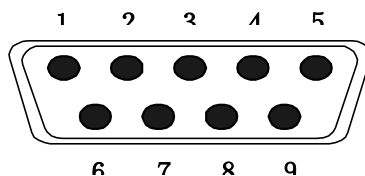
Weight: 0.166lb

Unit price:(\$/lb) Total(\$)

55.66 9.24

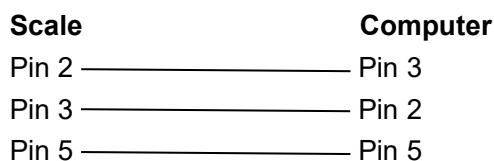
=====	=====
Sum(\$)	0.60
Payment(\$)	1.00
Change(\$)	0.40
=====	=====

13.2 Diagram: Serial interface





Pin 2	RXD	Input	Receiving data
Pin 3	TXD	Output	Transmission data
Pin 5	GND	—	Signal ground


9pin D Connector:





**14. PARAMETER
PARAMETER SETTING
Enter into the Menu**

- Turn on the scale. Press and hold  key during the self test.
Display will show “Pn” briefly PIN is activated. Press the PIN number to get into the parameter menu.
- The default PIN number is “0000”
- Press numeric key 0 four times , display will be shown Pn - - - -
- Press  key to confirm, It will enter into the parameter settings and will to show “nEnU Un It tG” .


Enter to Selected Menu

- Press  , it can confirm which will be shown displayed.

Select the Menu

- Press  or  . It can choose menu block one by one.

Return to Weighing Mode


- Press  escape from the menu and exit to weighing mode

Active Parameter

F 11 r5232	nAdE	CoDEE	Protocol Type :GoDEX
		PC- 100	Protocol Type :CAS
		Pr intr	The scale RS232 protocol will be determined by the Baud & Pr settings
		EPS0	Accumulation function enable,and press M+ key to send data to receipt printer
		LPS0	Accumulation function enable, and press M+ key to send data to label printer
		Pos	Protocol Type :POS
		oFF	RS232 function disable
		Cont	Continues data transmission
		StC	Stable data sending continues
		toLEdo	Protocol Type 1: Toledo
		nC iECr	Protocol Type 2: NCI-ECR
		nC iGEn	Protocol Type 3: NCI-General
		tEC	Protocol Type 4: TEC
		ERSY	Protocol Type 5: Easy Weigh
BAUD	Set baud rate to(1200/2400/4800/9600/19200/38400/15200)		

	Pr	8n l	8 data bits, no verify, 1 stop bit
		7E l	7 data bits, Even verify, 1 stop bit
		7o l	7 data bits, Odd verify, 1 stop bit
F 12 CHAnGE	CHAnGE	on	To set change function on
		off	To set change function off



Press  **key to choose "lb", "oz " or "kg" unit in the setting mode, capacity will be show in lb, oz or kg values.**

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