

**EW**  
**EASY WEIGH**  
Premium Quality

Operation Manual

**ST\_SP**

**Price Computing Scales**






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# 1.PRECAUTIONS

	<b>WARNING</b> 
	<b>DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, CLEANING, OR SERVICING. FAILURE TO DO SO COULD RESULT IN BODILY HARM OR DAMAGE THE UNIT.</b>

<b>CAUTION</b> 
<ul style="list-style-type: none"><li>• <b>Permit only qualified persons to service the instrument</b></li><li>• <b>Before connecting or disconnecting any components, remove the power.</b></li><li>• <b>Failure to observe these precautions bodily harm or damage to or destruction of the equipment.</b></li></ul>

- The weighing scale is a precision electronic instrument, handle it carefully.
- Do not install the scale in direct sunlight.
- Verify the local voltage and receptacle type are correct for the scale.
- Only use original adaptor, other could cause damage to the scale.

- Pluggable equipment must be installed near an easily accessible socket outlet.
- Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- Avoid sudden temperature changes, vibration, wind and water.
- Avoid heavy RF noise.
- Keep the scale clean

## 2. INTRODUCTION

- ST /SP series of economic price computing scales are very compact, reliable , high accuracy and much stable.
- It use 15mm LCD display with white LED back light
- Weighing unit conversion
- 20 membrane keyboard
- 10 indirect PLU and 2 direct PLU ,it can store 12 unit price values
- Auto unit price clear operation
- Battery provide up to 60 hours of continues use (without backlight)
- Capacity 6 kg (12lb) to 30 kg (60lb)
- Standard RS-232 interface can be connect to computer , ECR or printer

## 3. INSTALLATION

### 3.1 Unpacking

Carefully take the scale out of its package, make it sure its not damaged and all accessories are included.

- Remove the scale from the carton.
- Remove the protective covering. Store the packaging and to use if you need to transport the scale later.
- Inspect the scale and terminal for damage.
- Make sure all components are included

Accessories,

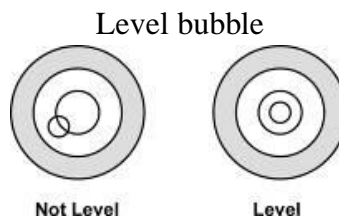
1. Scale
2. Adaptor
3. Pan
4. Product manual

### 3.2 Installation

- Remove transport lock from bottom of the scale base
- Place the scale on a level surface
- Install the stainless steel pan to the four hole on top of housing

### 3.3 Leveling

- The scale is equipped with a level indicator located back side of scale
- Use the adjustable leveling feet located on the bottom of the scale until the bubble appears in the center of the scale.



### 3.4 Power Connection

- Connect the adaptor pin in to the adaptor jack.
- Adaptor jack is locating below the right side of the scale.

AC Adapter jack



- Adaptor connects into your AC power socket. Pluggable equipment must be installed near an easily accessible socket outlet with a protective ground/ earth contact.

### 3.5 Rechargeable battery operation

**Note: Please charge the battery before using the scale for the first time.**

- The symbol above on BATT appears. scale of the weight display indicates that the battery is getting low. it's time to charge the battery with the AC power. If scale goes on being used without proper charging, <BAT-LOW> words will flicker on the display.
- Approximately 30 minutes of instrument usage are left; afterwards it will shut off automatically.
- Please use the supplied battery charger for charging the battery immediately, or scale cannot be used.

#### 3.5.1 Charging Battery

- To charge the battery insert the adaptor pin to jack, jack is locating below the scale. Adaptor simply plug into the mains power. The scale no needs to be turned on.
- The battery should be charged for 12 hours for full capacity.
- Left side of the Total Price display there is an LED to indicate the status of battery charging. When the scale is plugged into the mains power the internal battery will be recharged. If the LED is green, the battery has a full charge.
- If it is red, the battery is being charged.
- Do not use any other type of power adaptor than the one supplied with the scale.
- Verify that the AC power socket outlet is properly protected.

#### 3.5.2 Battery maintenance

- Recharge battery should be changed in every three months when not in use.
- If the scale is not used for an extended period of time, remove the battery from the battery compartment to avoid leakage.
- Store the battery in a sealed bag or box in a dry, temperate environment.



## 4. DISPLAY&KEYS FUNTION

### Indication

Zero	Zeroing Display
Stable	Stable Display
Net	Net Weight Display
BATT.	Low Battery
kg /lb	Current Weighing units
Charge	Charging Indication
SAVE	Save Indicator

### Keyboard

Keys	Function
0 9	<ul style="list-style-type: none"> <li>Numeric Keys, enter unit price / PLU;</li> <li>In setting mode ,press numeric keys to enter parameters setting</li> </ul>
C	<ul style="list-style-type: none"> <li>Clear incorrect entries and error conditions</li> </ul>
■	<ul style="list-style-type: none"> <li>Set unit price in fix mode,press the key to input double zero;</li> <li>Set unit price in float mode,press the key to input decimal point</li> </ul>
ZERO	<ul style="list-style-type: none"> <li>Returns the display to zero.</li> <li>In setting mode,to escape from the menu</li> </ul>
TARE	<ul style="list-style-type: none"> <li>Subtracts the tare values,</li> <li>Hold the key to enter parameter settings.</li> </ul>
SAVE	<ul style="list-style-type: none"> <li>Enter to auto clear mode</li> </ul>
PLU	<ul style="list-style-type: none"> <li>Used to store or recall unit price,</li> <li>In setting mode,used to scroll down the menu</li> </ul>
PRT	<ul style="list-style-type: none"> <li>Used to print out the print format</li> </ul>
1 to 2	<ul style="list-style-type: none"> <li>Used to store or recall direct PLU information</li> </ul>
UNIT	<ul style="list-style-type: none"> <li>Used to change unit (kg/lb)</li> </ul>

## 5. OPERATION

### Initial Start-up

Warm-up time of 15 minutes stabilizes the measured values after switching on.

#### 1. Power ON/OFF


Power switch is located below the right side of the scale.

Turn the scale ON; press the switch forward and hold. The scale will show the capacity and enter a self-test mode and follow to enter the weighing mode.


Turn the scale OFF, press the switch forward once.


#### 2. Zero

Environmental conditions can lead to the balance exactly zero in spite of the pan not taking any strain. However, you can set the display of

your balance to zero any time by pressing  key and therefore ensure that the weighing starts at zero.

#### 3. Tare


The weight of any container can be tared by pressing  button so that with subsequent weighing the net weight of the object being weighed is always displayed.

- 1 Load weight on the pan.
- 2 Press  key. Zero is displayed, and tare is subtracted.
- 3 Remove weight from the platform. Tared weight is displayed. It can set only one tare value. It can display with a minus value.

- 4 Press  key. Zero is displayed, tare weight is cleared.

5

#### 4. Weighing Units

Press  key in the weighing mode to change the weighing units **kg / lb**.

## 5. Unit Price Setting

**Weight      Unit Price      Total Price**

- Make sure platform is empty and display is

zero.

0.000	0.00	0.00
-------	------	------

- Place goods to be weighed on the platform.

1 500	0.00	0.00
-------	------	------

- Enter the unit price by pressing numeric price will be calculate automatically.

1 500	5.00	750
-------	------	-----

keys. Total

## 6. PLU Setting

### 6.1 Indirect PLU Setting

ST/SP can store 10 indirect unit price values. It can select from 0 to 9 numeric keys.

#### Save to memory

- 1 By pressing numeric keys enter the unit price 10.

0000	10	0
------	----	---

- 2 Press and hold , display will be shown

save	pos	Ps 0-9
------	-----	--------

- 3 Press numeric key 0 to 9, to select location.

- 4 If want to select to numeric key 1, press 1.

Plu		saved
-----	--	-------

- 5 Unit price 10 saved into numeric key 1.

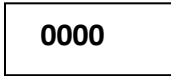
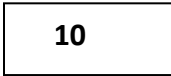
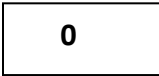
## Re-Cal Unit Price

When you want to weigh stored unit price,

1 Press  , display will be shown   

2 Press the numeric key, which you stored in 0 to 9.

3 If want to use stored in 1, press 1.

4 Display will be shown, which unit price is stored.   


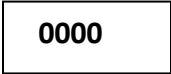
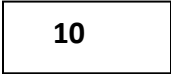
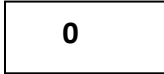
5 Place the load on the platform, total price will be calculate automatically.



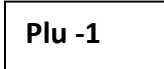
## 6.2 Direct PLU Setting

ST/SP can store 2 direct unit price values.

### Save to memory

1 By pressing numeric keys enter the unit price 10.


2 Press and hold  , display will be shown   

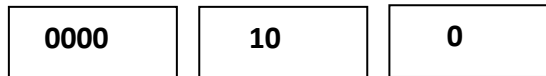
  

3 Unit price 10 saved into direct PLU 1.

## Re-Cal Unit Price

When you want to weigh stored unit price,

- 1 Press  key, the stored unit price appears on the display.



- 2 Place the load on the platform, total price will be calculate automatically.


## 7. Automatic Unit Price Clear

It can set automatic unit price clear. Press  key to save indicator turn on or off.

- 1 When save indicator on, unit price appear after return to zero.
- 2 When save indicator off, unit price will be clear automatically.

## 8. Printing Operation


It allows to connect with TPuP receipt printer and RP80VI label printer ,To enable the function, please enter parameters to select F11RS232 >Mode>Printer > TPuP or RP80VI ; F11RS232>BAUD > 9600; F11RS232>PR> 8N1

- 1 Connect with the printer.
- 2 Recall the direct or indirect PLU, the unit price will appear.
- 3 Load the items on the platter.
- 4 After stable indicator on, Press  key to print out the format.


### 9.Back light Setting

ZTP/ZSP have an option to choose the back light operation.

1 In normal weighing mode, Press and    hold 





2 Press  key to change the settings back light display mode to Auto / On /Off.

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






3 Press  key to confirm and back to normal weighing mode.

**Note: When the battery is getting low, the backlight function is not available.**

## 6. CALIBRATION

- 1 Turn on the scale.
- 2 Press and hold  key during the self test.
- 3 Display will show “**Pn**” briefly PIN is activated.
- 4 Press the PIN number to get into the parameter menu. The default PIN number is “0000”
- 5 Press numeric key 0 four times , display will be shown **Pn - - -**
- 6 Press  key to confirm, It will enter into the parameter settings and will be Show “**MENU UNIT KG**”
- 7 If calibrating in kg., continue step 9
- 8 If calibrating in lb., press  key , lb will be show on the display
- 9 Press  key to confirm , display will be show “**F0 CAL**”

Then press the calibration switch to enter calibration, switch is locating below the scale.

- 10 Press  key to confirm for calibration, display will be show “**UNLOAD**”
- 11 Remove the goods from the platform and make sure STABLE indication has been enable.
- 12 Press  key to confirm, Display will be show , **CAP LOAD XX**
- 13 If necessary select the calibration weight value from the test weights list by pressing  key and place the calibration weight on the platform.
- 14 Press  key to confirm when display gets stable, display will be show “**PASS**”
- 15 Finished calibration and display will come to “ **F0 CAL**”
- 16 Remove calibration weight from the platform.
- 17 Press  key to go back to the weighing mode.

## Pounds test weights list

<b>Model #</b>	<b>(1/3 Weight) Minimum</b>	<b>(2/3 Weight)</b>	<b>(Full capacity) Maximum</b>
SP-ST-6	2 lb	4 lb	6lb
SP-ST -12	4 lb	8 lb	12 lb
SP-ST -30	10 lb	20 lb	30 lb
SP-ST -60	20 lb	40 lb	60 lb

## Kilogram test weights list

<b>Model #</b>	<b>(1/3 Weight) Minimum</b>	<b>(2/3 Weight)</b>	<b>(Full capacity) Maximum</b>
SP-ST -3	1kg	2kg	3kg
SP-ST -6	2kg	4kg	6 kg
SP-ST -15	5kg	10kg	15 kg
SP-ST -30	10kg	20kg	30 kg



