

**JPL Series / IDS911**

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# **Price Computing Scale**

## **User Manual**

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## 1. Introduction

Thank you for deciding to purchase a JPL price computing scale. This goods has the excellent performance and splendid properties under severe quality management .It is recommended to read this manual in full before using it for good function application.

## 2. Precautions

- ⊙ Place the scale on a flat and stable surface. See 3-3 Leveling the Scale for details.
- ⊙ Verify that the input voltage and the plug type matches the local AC power supply. See 4-4 Power supply.
- ⊙ Warm up the scale for 15 minutes before using it the first time.
- ⊙ Keep the scale away from EMI noise, strong wind and vibration, which might cause incorrect reading.
- ⊙ Do not drop loads on the weighing pan.
- ⊙ Avoid sudden temperature changes (suitable operating temperature is between -5℃~ 40℃.)
- ⊙ Disconnect the power supply when cleaning the scale.
- ⊙ Do not immerse the scale in water or other liquids.
- ⊙ Use only approved accessories and peripherals, as available.
- ⊙ Service should be performed by authorized personnel only.

## 3. Before Using the Product

### 3-1 Unpacking and Checking

Open the package and check the instrument for transport damage. Immediately inform your dealer if you have complaints or if parts are missing. The package should contain:

- Scale body
- Weighing pan
- User manual
- Power cord

### 3-2 Installing Components

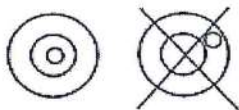
1) Before using the scale, remove the shipping protection screw (rotate counterclockwise), which located underneath the scale.

Note: the JPL-30K and JPL-1530K models was shipped without the shipping protection screw.

2) Cover the weighing pan(s) on the scale body properly, with the rounder comers facing front.

### 3-3 Leveling the Scale

To compensate for small irregularities or inclinations at the location, the scale can be leveled. The scale is equipped with a level indicator at the front panel .Adjust the leveling feet until the air bubble in the indicator is centered as shown.



Note: The scale should be leveled each time its location is changed.

## 4. Product Introduction

### 4-1 Specifications & General Features

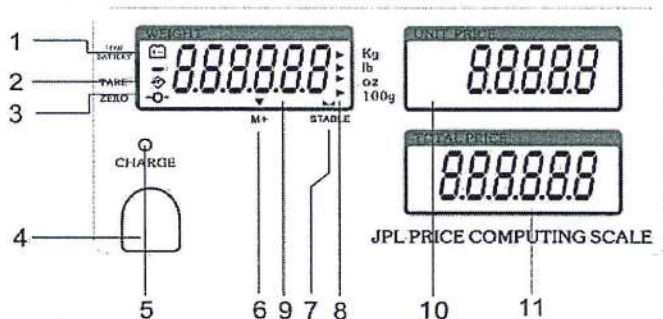
#### Specifications



Model	JPL-3K	JPL-6K	JPL-15K	JPL-30K	JPL-1530K
Capacity(kg)	3	6	15	30	15/30
Division-1(g)	1	2	5	10	5/10
Division-2(g)	0.5	1	2	5	5/10
Weighing Units	kg, lb ,100g ,oz				
Display	3-window backlit LCD (6/5/6 Digits)				
Scale Dimensions	341×294×104mm				
Pan size	294×228×13.5mm				
Save Overload	150% of full scale capacity				
Power	AC 110V/220V (AC±10%) or rechargeable battery (6V/4A)				
Humidity Range	10% to 85% humidity ,non-condensing				


#### General Features

- ⊙ 20 keys keypad
- ⊙ Dual display, operator side and customer side
- ⊙ Optional Pole Display available
- ⊙ Anit-cockroach plastic ring design to prevent any insects crawling into the scale
- ⊙ Overload protection
- ⊙ Detachable weigh platter easy to clean
- ⊙ Low power indication and auto-power off
- ⊙ Easily adjusted leveling feet for stability of the scale
- ⊙ Full range tare , auto zero tracking
- ⊙ Change / Pricing/Accumulation/Price look up functions

#### 4-2 Display




- 1)  Low battery indication
- 2)  Manual tare indication


- 3)  Center of Zero Indication (The zeroing range is  $\pm 2\%$  of weighing capacity.)
- 4) Leveler
- 5) Charge lamp
- 6) **M+** Symbol "▼" points at **M+** when scale is in accumulation mode.
- 7) **STABLE** Stable indication, Symbol "▲▲" appears at the top of **STABLE** when scale is in stable condition.
- 8) **kg,lb,oz,100g** Symbol "►" points to the unit being used.
- 9) Weight window
- 10) Unit Price window
- 11) Total Price window


### 4-3 Keyboard


  Numeric keys to enter Unit Price, price lookup number and other data.


 1. Decimal point (press once) 2. shifts weighing unit (press twice)


 Clears the Unit Price

 1. Zeros the weight display (The zeroing range is  $\pm 2$  of weighing capacity)

 1. Inputs the weight of the object on the weighing pan as a Tare value  
2. Cancels Tare


 1. Clears total accumulation data in the weighing mode, 2. Clears certain accumulation record while it's displayed.

 Press key **Change**, total price window displays the total price of all the items, key-in the sum total paid from customer, the Unit Price display shows the change balance.

 Recalls and displays the total Accumulation data (total price, number of items) and the first 25 records in details.

 1. Adds total price of non-weighing items into accumulation memory.

 Adds the total price of weighing items into accumulation memory.

 Activates the by-count operation to calculate the price of non-weighing items

### 4-4 Power Supply

Please verify the local AC power source and switch the two-stage switch (110V/220V) to the proper place before plugging into the power outlet.

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## Alternative Power Supply


- 1) AC 110V/220V (AC±10%)
- 2) (6V/4A) Internal Rechargeable Battery

## Power Consumption

About 300mW, 80hrs (without backlight)

About 380 mW, 65hrs (with backlight)


## Low Battery Warning

When " " appears in the upper left corner of the weight window, the battery power requires recharging. The charge lamp turns green from red when the recharging is completed (which takes about 8 hours). Disconnect the scale from power supply when it is fully charged.

Note: Battery is to replaced only by an authorized service dealer .Risk of explosion can occur if replaced with the wrong type or connected improperly.

## 5. Operation

### 5-1 Tare

1) Place a container on the pan, then press key **TARE** .The Weight window will show a net value of "0.000", and the Tare indication  will turn on, Remove the container, and the negative value displayed will be equivalent to the Tare weight.

2) To clear tare, with an empty pan, Press down the key **TARE** .

### 5-2 Price and accumulate the weighing item

1) Place the item to be weighed on the pan, and then enter the Unit Price via the numeric keypad and key **•/UNIT**. The item weight will be shown in the weight window, the unit price in the Unit Price window, and resulting total price in the Total Price window.

Use the accumulation function to add the total price of several weighings .

2) Press key **M+**, the displayed total price are added to the accumulation memory, and Symbol "▼" points at "**M+**".The weight window will show the number of weighments, the Unit Price window will show "----", and the Total Price window will show the accumulated total price value.

3) Remove the item, then repeat step 1 and 3 until all transactions are finished .The corresponding total number of weighments and accumulated price will be displayed.

4) Press key **CLEAR** to return to weighing mode .

Note: Maximum is 99 pieces including the non-weighing items .

### 5-3 Calculate and accumulate the price of non-weighing items

1) Input the value of Unit Price via the numeric keypad and key **•/UNIT**.

2) Press key **Q'TY** and key in the number of items(1~999) ,the Total Price is calculated .at this moment, press key **+** to store it in "Accumulation",with Symbol "▼" points at "**M+**"

3) Press key **CLEAR** to return to weighing mode.

### 5-4 Recall the accumulated records

Press key **MR** to recalls and displays the total Accumulation data (total price, number of items of both weighing and non-weighing items) and the first 25 records in details.

## 5-5 Clear the accumulated records

Method 1: To clear the total accumulation data or the first 25 accumulation events, Press key **MC** while the data is displayed. Symbol "▼" disappears when the total accumulation data is deleted.

Method 2: Pressing down the key **MC** under weighing mode will clear all records saved in the memory.

## 5-6 Change function

- 1) Press key **CHANGE**, the total price window displays the total price of the deal.
- 2) Key-in the sum total paid from customer, the Unit Price window displays the change balance for customer.
- 3) Press key **CLEAR** to return to weighing mode

## 5-7 PLU function (Price Lookup)

The PLU function can be used for frequently sold goods.

### Store or modify a unit price

- 1) Input the indicated unit price and then long press key **+**. The unit price is stored in numeric key **0** automatically. The unit price window displays "SETP 0".
- 2) Long press numeric key **0-9** where the Unit Price is stored to recall a PLU. (e.g press numeric key **1**, the unit price window displays "READ 1" )
- 3) Input a new unit price via numeric keys and key **•/UNIT**, then long press key **+** to store the unit price into the numeric key which was pressed in step 2.

### Recalling a PLU

Long press the numeric key where the Unit Price is stored to recalling a PLU. Put the items to be weighed on the pan, the scale will automatically calculate the total price.

## 5-8 Unit Switch Operation

Press key **•/UNIT** twice to initiate unit switch operation. Press numeric keys 1~4 to set the weighing unit:

Numeric keys	1	2	3	4
Weighing units	kg	lb	oz	100g

Symbol "▶" will point at the corresponding weighing units and the display return to weighing mode when one of the units is selected.

Note: Press any of the numeric keys to retain to the last used weighing unit.

## 6. Setting Mode

Turn on the power while pressing key **ZERO** to initiate user setting.

- 1) Press numeric key **0** to shift backlight modes. Options are ON, OFF and AUTO.

**on** = Backlight

**off** = No backlight

**Auto** = Auto-on with items greater than 9d placed on the pan.

- 2) Press numeric key **1** to set Decimal Place of Total Price. Options are 0, 1, 2 and 3.
- 3) Press numeric key **2** to set the level in which the stable indication turns on (filtering) .The lower the setting, the faster stabilization time .Options are 1 ,2,4 and 8(level).
- 4) Press numeric key **3** to set the period of inactivity before the scale automatically turns off. Options are OFF(Non power-off) 、 5、 10、 30 and 60 (minutes).

- 5) Press numeric key **4** to set the range in which the Zero indication turns on .Options are d0, d1, d2, d3, d4 and d5. (d= scale division)
- 6) Press numeric key **5** to select serial transmission rates. Options are 9600, 4800 and 2400.
- 7) Press numeric key **6** to select external devices. Options are PC, U-KEY, EZ-110, SH-24, TDP and ZEBRA.
- 8) Press numeric key **7** to switch On or OFF RTC function.

9) Press numeric key **8** to set print modes. Options are Prt.Co(continuous print) and Prt.St(Stable print= the weight of weighted articles should be more than 9 divisions. Weighted articles should be removed and the scale goes back to zero before print out the next record.)

10) Press numeric key **9** to set whether to save the previous unit price value.

*On* = Previously set unit price value is retained when the unit is turned on.

*Off* = Previously set unit price value is not retained when the unit is turned on.

11) Press **ZERO** to save the settings and go back to weighing mode

## 7. Serial Interface

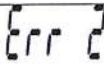
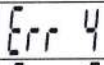
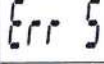
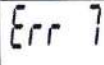

If external interface is needed, please select the proper two-in-one board first, which integrates RTC (time display) and RS-232 functional module onto one circuit board. Only when this board is adopted, the two functions can be enabled.

### 7-1 Single Option

1) RS232+RTC+ TDP / SH-24 / ZEBRA / EZ-110 printer

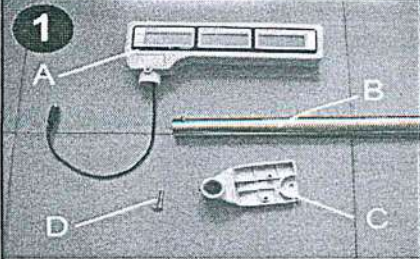
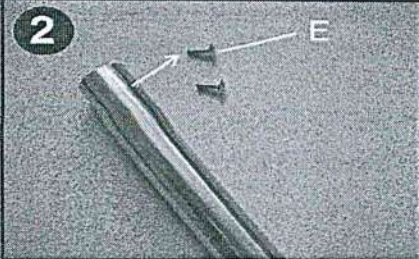

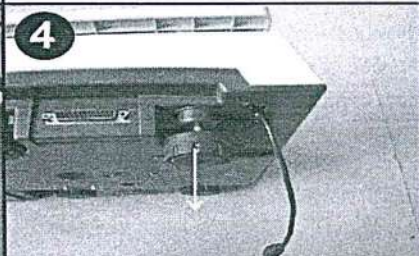
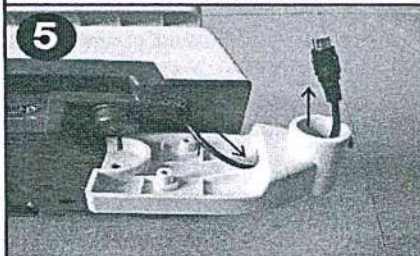
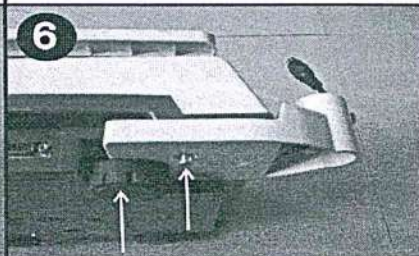
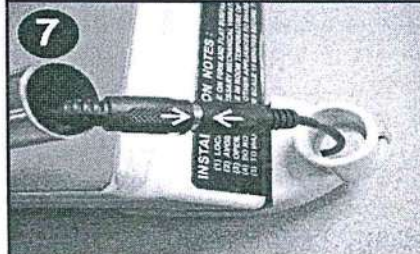

2) RS232+RTC+Computer

## 8. Troubleshooting and Error Message

Error message	Problems	Solutions
	Initial zero point exceeds + /-10% (take 10% as reference basis).	1. To check whether there are other alien articles on the scale pan, remove those articles. 2. LOAD CELL failure, which requires contacting our Service.
	EEPROM Check sum failure	Contact our Service.
	The weighed articles are overload.	Do not load the item exceeds the maximum tolerance.
	Accumulated total price > display range or the number of transactions >25	-----
	Low battery	Recharge the battery, the indicator can be used while it is charging.



## 9. Installation of optional pole display

 <p>1</p> <p>A: Display module, B: Pole, C: Pole holder, D: Screw</p>	 <p>2</p> <p>E: Screw</p>
<p>The fittings should include display A module, B Pole, C pole holder and D screw</p>	<p>Remove the screw E from the pole</p>
 <p>3</p>	 <p>4</p>
<p>Insert the pole into the bottom hole of the display module, align the screw hole. Then screw on and make it fastened.</p>	<p>Screw off the adjusting foot near the RS-232 position .</p>
 <p>5</p>	 <p>6</p>
<p>Thread the signal wire through the hole of the pole holder.</p>	<p>Screw on the adjusting foot and fitting screw.</p>
 <p>7</p> <p>INSTALL ON NOTES: 1. Do not touch the display screen. 2. Do not touch the display screen. 3. Do not touch the display screen. 4. Do not touch the display screen. 5. Do not touch the display screen.</p>	 <p>8</p>
<p>Align the two end of signal wire according to the arrow mark and connect the two ends solidly.</p>	<p>Place the signal wire into the pole. Adjust angle of display screen then fasten the screws.</p>