

# ***SPS-5***

## *Rate Computing Scale*

### Operation Manual

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***Transcell Technology inc.***

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Contents subject to change without notice.

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**ATTENTION:**

**To extend the life of your digital scale, do not drop items to be weighed onto the platform or overload the scale beyond its rated capacity. Shock-loading and overloading may damage the load cell and void the warranty.**

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## Introduction

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The SPS-5 is a low-cost, easy to use, 5 lb rate computing scale featuring the most commonly used letter and small parcel rates offered by the United States Postal Service.

Housed in an attractive and durable gray-colored plastic enclosure, the scale looks great on any desk at home or in the office.

The scale features a 6-key silicone rubber keypad, which is usually found on more ex-

pensive scales, and displays its numerals on a 4-digit, easy-to-read LCD display. Six annunciators let you know clearly what rate is currently displayed.

A large (6" x 8") plastic platter allows for easy rate calculation of larger envelopes. An environmentally friendly AC adapter is included at no extra charge.

## Getting Started

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After unpacking the scale, a small amount of assembly is required:

- Locate the platter and affix to the scale in the holes provided. Be sure to align the end marked "FRONT" with the front of the scale.

### Please Do...

- Place the scale on a firm and stable floor or table.
- Plug the enclosed AC Adapter into the scale first, then into an AC outlet.
- Leave the scale on for at least 20 minutes before using. You will find the ON/OFF switch on the back of the scale. You may leave the scale on at all times, if you wish.
- Press the **ZERO** key before operating the scale.

### Please Do Not...

- Share an AC outlet with other noise producing products; i.e. anything with an electrical motor or relay.
- Turn the scale ON with an object already on the platform.
- Operate the scale...

...in an area with changing ambient temperature.

...in a dusty environment.

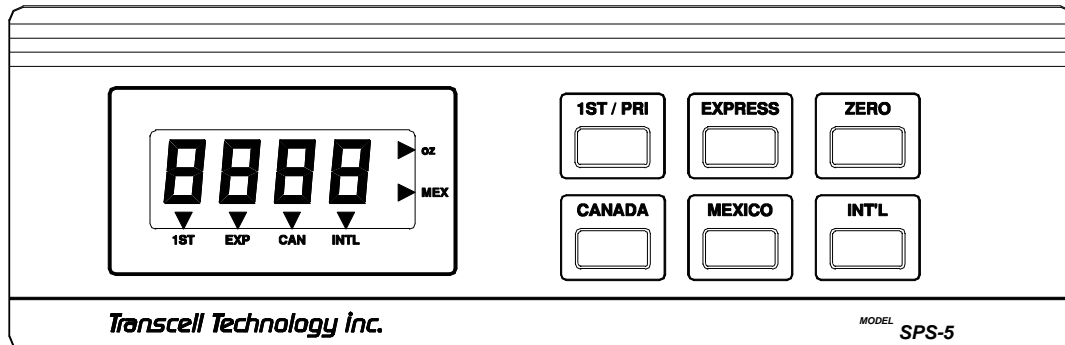
...in direct sunlight.

...in a windy area.



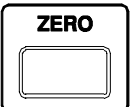


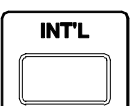
...in an area with high humidity.

...in an area with vibration.

## Basics of Operation



SPS-5 Front Panel

KEY	INDIC.	FUNCTION
	<b>1ST</b>	Use this key to select the First Class / Priority Rate. The scale automatically switches to Priority Mail for items weighing more than 11 ounces.
	<b>EXP</b>	Use this key to select the Express Mail Rate.
	<b>OZ</b>	Sets the scale in the correct zero position for accurate operation. Also puts the scale back into ounce indication.
	<b>CAN</b>	Use this key to select the Airmail Letter rate to Canada. Please note that this class of mail currently does not allow packages over 4 lb.
	<b>MEX</b>	Use this key to select the Airmail Letter rate to Mexico. Please note that this class of mail currently does not allow packages over 4 lb.
	<b>INTL</b>	Use this key to select the Airmail Letter rate to countries other than Canada and Mexico. Please note that this class of mail currently does not allow packages over 4 lb.

## Rate Computing Operation

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### *How to obtain the proper rate for a letter or package:*

1. Before weighing an item, make sure the scale shows a zero weight indication. If it does not, remove all items from the platter and press the **ZERO** key.
2. Place the item on the center of the scale's platter and allow the weight indication to stabilize.
3. Select the desired class of mail by pressing the corresponding key.

MESSAGE	MEANING / POSSIBLE SOLUTION
πππππ	A weight greater than 5 lb has been applied to the scale. Remove the weight from the platter. Try re-calibrating the scale if this doesn't solve the problem. Otherwise, possible load cell damage due to overloading.
"oVEr"	The weight limit for the class of mail selected has been exceeded. This applies to the Air-mail Letter rates which currently have a limit of 4 lb.
"Err 2"	The scale's calibration information has been lost. Re-calibrate scale.

*Possible Scale Operation Error Messages*

## Calibration

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Your SPS-5 scale is ready to use right out of the box. There is no need to calibrate the scale unless you feel that the scale has become inaccurate. It is a good idea to check the calibration of your scale from time to time with a precision test weight. Transcell recommends that you perform a new calibration on your digital scale at least once a year. The SPS-5 must be calibrated with a 5 lb precision test weight.

### *To calibrate the scale:*

1. Remove all items from the platter and turn the scale OFF. Press and hold the **1ST/PRI** key while turning the scale back ON.
2. The scale shows "CAL" briefly then "ZERO".
3. Press the **ZERO** key. The scale then shows "ADD".
4. Place the 5 lb test weight on the platter and wait for scale to show "SAVE".
5. Press the **INT'L** key to save the 5 lb calibration value.
6. Once the 5 lb calibration value has been saved, the scale shows an "End" message.
7. You must now turn the scale OFF and then turn it back ON without pressing any keys. Your SPS-5 is now calibrated and ready for use.

## Calibration - Continued

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MESSAGE	MEANING / POSSIBLE SOLUTION
Shows "Err" Continuously	The scale is unstable. Make sure you are not violating one of the Do Not's in the "Getting Started" section. Otherwise, the scale may require service.
Shows "Add" Continuously	The scale is not detecting weight internally. Possible damage to the load cell. Scale requires service.

*Possible Calibration Error Messages*

## Specifications

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**CAPACITY:**

80 oz (5 lb) x 0.1 oz

**KEYPAD:**

6-key Silicone Rubber Type

**CONSTRUCTION:**

**Housing:** Gray ABS

**Sub-Platform:** Metal

**Platter:** Gray ABS

**Feet:** Non-skid Hard Rubber

**OVER CAPACITY ANNUNCIATION:**

102% of Full Scale Capacity

**POWER SOURCE:**

AC Adapter, 9 VDC, 100 mA, incl.

**DISPLAY:**

4 Character, 7-Segment LCD

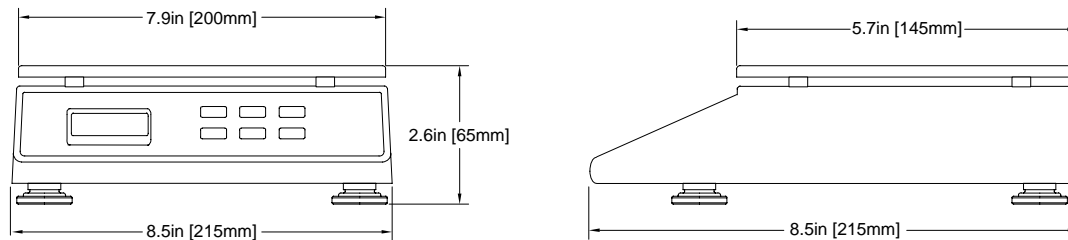
6 Annunciators

**WEIGHT:**

**Net Weight:** 4.0 lb (1.8 kg)

**Shipping Weight:** 5.6 lb (2.5 kg)

**PHYSICAL DIMENSIONS:**



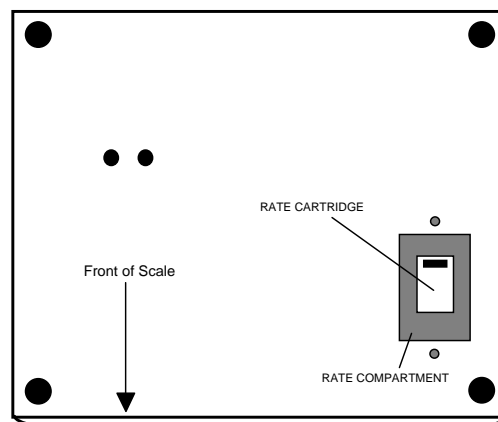
## Updating Postal Rates

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When the Post Office changes its rates, it is necessary to obtain a new, updated Rate Cartridge from your dealer or reseller containing all the necessary rate information. The SPS-5 was designed in such a way as to make this an easy, painless process. You will need a small Phillips head screwdriver to complete the process. Please follow the directions listed below and you will have no problems.

### **To install your new Rate Cartridge:**

1. Turn the scale OFF and unplug the AC adapter from the back of the scale.
  2. Remove the top platform and set it aside.
  3. Gently turn the scale completely over so that the bottom of the scale is facing you. Refer to the drawing below.
  4. Locate the Rate Cartridge Cover (a thin metal plate) located towards the front of the scale, held in place by two (2) Phillips head screws.
  5. Remove the two screws and the cover and set them aside so that they are not lost. *Please do not remove any other screws from the bottom of the scale!*
  6. The cavity inside will contain a small circuit board which is piggybacked onto another larger circuit board. This smaller circuit board is the Rate Cartridge. Use your fingers to remove the old Rate Cartridge.
  7. Take a look at the new Rate Cartridge. On one side of the circuit board, there is an IC and a five pin socket. Install the new Rate Cartridge by lining up the five pins inside the scale with the five openings of the socket on the Rate Cartridge.
  8. Once all five pins are lined up with the socket, press the Cartridge gently down until it is completely seated in place. There is no way to install the cartridge backwards. However, it is possible to overlap one or more of the five pins. Please be sure to line up all five pins!
  9. Replace the Rate Chip Cover and mounting screws, return scale to its upright position, and replace the platter.
  10. Once you re-connect the adapter, your scale is ready for use with its new, updated rates.
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SPS-5 Bottom View



## ***Warranty and Service Information***

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Seller warrants that the SPS-5 Rate Computing Scale will conform to written specifications, drawings, and other descriptions made by the manufacturer, including any modifications thereof. The Seller warrants the goods against faulty workmanship and defective materials. If any goods fail to conform to these warranties, Seller will, as its sole and exclusive liability hereunder, repair or replace such goods if they are returned within the following warranty period:

### **Twelve (12) months from date of shipment from manufacturer.**

These warranties are made upon the express condition that:

- 1) Transcell Technology, Inc. is given prompt written notice upon discovery by Buyer of such non-conformity, with a detailed explanation of the alleged deficiencies;
- 2) Such goods are returned to the Seller at the expense of the Buyer;
- 3) Examination of such goods by Seller discloses that the nonconformity actually exists and was not caused by accident, misuse, neglect, alteration, improper installation improper or unauthorized repair, or improper testing, and
- 4) Such goods have not been modified, altered, or changed by any person other than the Seller or its duly authorized repair agents.
- 5) Transcell Technology, Inc. will have a reasonable time to repair or replace such goods.

THESE WARRANTIES EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER WILL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

IN ACCEPTING THIS WARRANTY, THE PURCHASER OR BUYER AGREES TO WAIVE ANY AND ALL OTHER CLAIMS FOR RIGHT TO WARRANTY FROM TRANSCCELL TECHNOLOGY, INC. SHOULD THE SELLER BE OTHER THAN TRANSCCELL TECHNOLOGY, INC., THE BUYER AGREES TO LOOK ONLY TO THE SELLER FOR WARRANTY CLAIM OR CLAIMS.

No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of the Seller.

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