

# *ESR 5*

## *Rate Computing Scale (USA)*

### Operation Manual

Revision 1.1  
June 27, 2000

***Transcell Technology inc.***



## **WARNING**

***Use only the AC adapter which comes with the scale. Other adapters may cause damage. (AC adapter is optional).***

***Internal service to this product should be performed by a qualified person only. There are no user serviceable parts inside.***



## **CAUTION**

*Avoid installing the scale in areas of direct sunlight and high humidity. Also avoid drafts, vibrations and dusty conditions.*

*Do not mix the type of batteries. Replace all batteries at the same time.*

*If the scale is not to be used for a long period of time, remove all batteries from the battery compartment to avoid leakage which may cause damage to the instrument.*

*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.*

## **NOTICE:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

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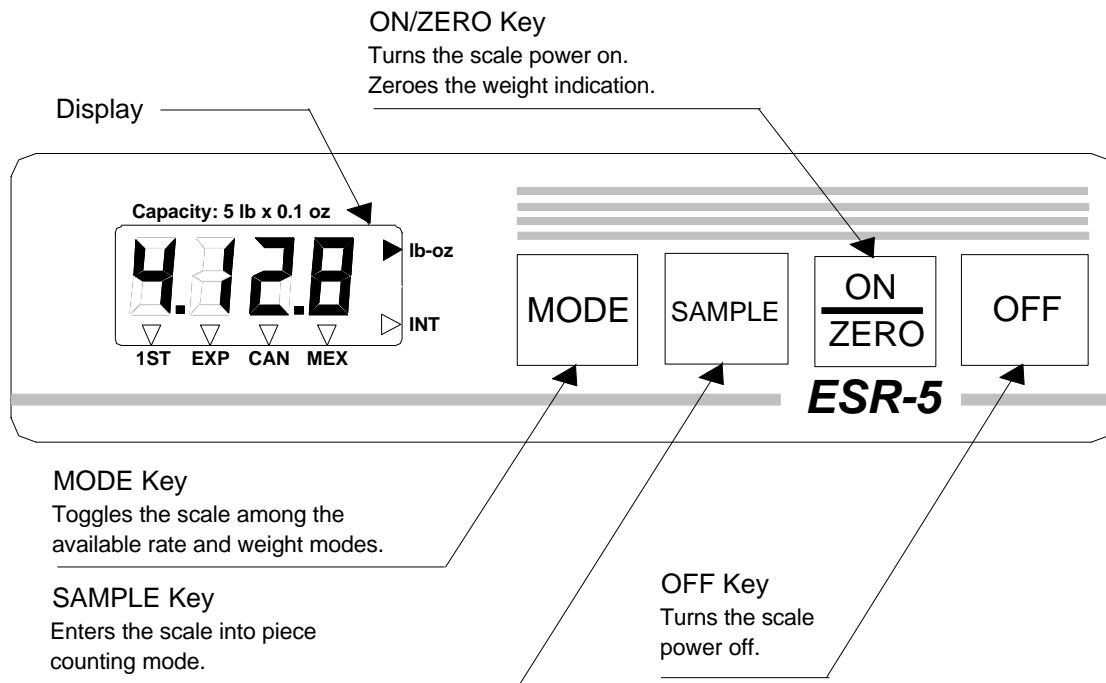
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## Getting Started

1. Plug the optional AC Adapter into the scale first, then into an AC outlet. For portable operation, install 6-AA size alkaline batteries in the battery compartment located underneath the scale.
2. Place the scale on a stable and firm table.
3. Press the ON/ZERO key. All segments will briefly appear, followed by the version code and finally "0.0". The scale is now ready for use.

## Keyboard and Display Description



Display Indication	Meaning
<b>1ST</b>	Indicates that the scale is displaying the rate for First Class/Priority Mail. The scale automatically switches to Priority Mail for items weighing more than the First Class weight limit.
<b>EXP</b>	Indicates that the scale is displaying the Express Mail PO to Addressee rate.
<b>CAN</b>	Indicates that the scale is displaying the Airmail Letter rate to Canada.
<b>MEX</b>	Indicates that the scale is displaying the Airmail Letter rate to Mexico.
<b>INT</b>	Indicates that the scale is displaying the Airmail Letter rate to countries other than Canada and Mexico.

## 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 or rate indication. If it does not, remove all items from the platter and press the **ON/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 **MODE** key.

### **Sample operation:**

1. At any time, press the **SAMPLE** key. The scale displays the message "10 0". This is the sample size.
2. Add ten identical pieces. The scale shows "10 –".
3. Press the **SAMPLE** key again. If the items are heavy enough, the scale is in pieces mode and displays ten pieces with no annunciator. If there is a sampling error, the scale briefly shows "Add" then updates the sample size first to 25 pieces then to 50 pieces. If the operation fails for 50 pieces, then the parts are too light for the scale to process at all.

<b>Message</b>	<b>Explanation</b>
"o o o o"	Indicates that the weighing capacity of the scale has been exceeded.
<i>bAtt</i>	Indicates that the batteries need to be replaced.
<i>Add</i>	Indicates that there is not enough internal resolution to calculate the unit weight of an item. This means that the items you are counting are too light for the scale to process at all.
<i>Lo</i>	Indicates that the unit weight of the items you are sampling is too light for the scale to process accurately.
<i>O L</i>	Indicates that the item on the scale exceeds the weight for the class of mail.
<i>U L</i>	Indicates that the item on the scale is too light for the class of mail.
Err 2	The scale's calibration information has been lost. Re-calibrate scale.
"_ _ _ _"	Indicates that the weight on the scale is negative. Press the ON/ZERO key.

*Possible Scale Operation Error Messages*

## Specifications

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**Capacity:**

5 lb x 0.1 oz

**Construction:**

**Housing:** Gray ABS

**Sub-Platform:** Metal

**Platter:** Gray ABS

**Feet:** Non-skid Hard Rubber

**Display:**

4 Character, 7-Segment LCD

7 Annunciators

**Keypad:**

4-key Tactile Dome Type

**Over Capacity Annunciation:**

103% of Full Scale Capacity

**Main Power Source:**

6-AA size alkaline batteries

**Optional Power Source:**

AC Adapter, 9 VDC, 100 mA

**Auto Power Off Period:**

Fixed at two minutes

**Weight:**

**Net Weight:** 2.0 lb (0.9 kg)

**Shipping Weight:** 2.5 lb (1.1 kg)

## Calibration

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Your ESR-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 ESR-5 must be calibrated with a 5 pound precision test weight.

**To calibrate the scale:**

1. Remove all items from the platter and turn the scale OFF. Press and hold the **SAMPLE** 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 pound test weight on the platter and wait for scale to show "SAVE".
5. Press the **MODE** key to save the 5 pound calibration value.
6. Once the 5 pound 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 ESR-5 is now calibrated and ready for use.

MESSAGE	MEANING / POSSIBLE SOLUTION
Shows "Err" Continuously	The scale is unstable. Make sure you are not violating one of the "Caution" items. 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*

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

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Seller warrants that the ESR-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:

### **Ninety (90) days 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.