



TRANSCCELL TECHNOLOGY, INC.

ESWL Series

Digital Scale

Operation Manual

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



- Ensure that the scale is placed securely on a flat and level surface.
- 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:

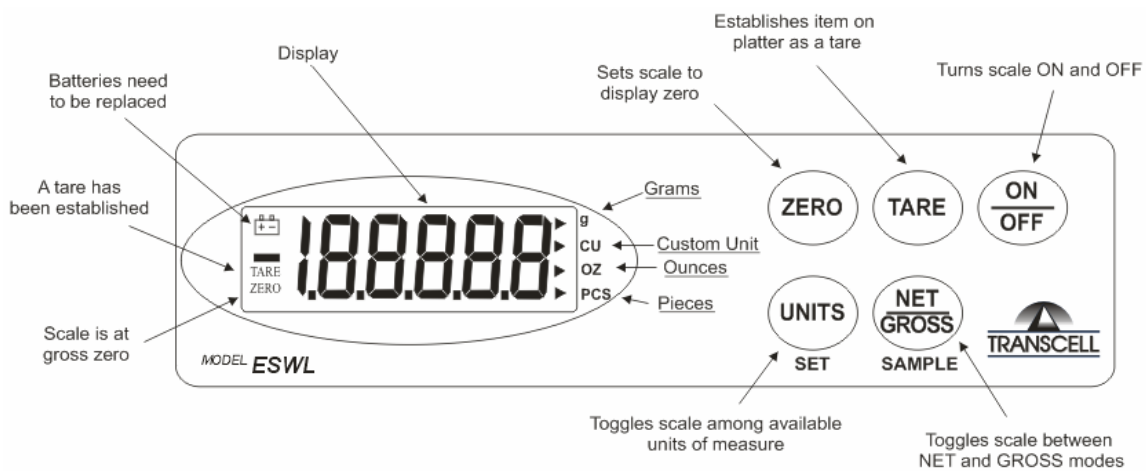
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, 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.

Getting Started

1. Install four (4) AA size alkaline batteries in the battery compartment located underneath the scale.
2. Place the scale on a stable and firm surface.
3. Press the ON/OFF key. All segments will briefly appear, followed by an indication of zero weight. The scale is now ready for use.

NOTE: If you see an error code at startup, see Operation section for the explanation.

Keyboard and Display Description



MODEL	CAPACITY / GRADUATION
ESWL-0.5M	500 g x 0.1 g
ESWL-5M	5000 g x 1 g

ESWL Series Product Matrix

Operation

How to obtain the weight of an item:

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. Select the desired unit of measure by pressing the **UNITS** key as many times as needed.
3. Place the item on the center of the scale's platter and allow the weight indication to stabilize.

Operation / Continued

How to use Gross/Net/Tare:

To weigh an item in a container, the weight of that container must first be subtracted from the overall weight to obtain an accurate weight reading. This is known as a tare.

1. Select the desired weighing unit by pressing the **UNITS** key until that unit is indicated on the display.
2. If necessary, press the **ZERO** key to obtain a weight reading of zero.
3. Place the empty container on the scale's platter and allow the weight indication to stabilize.
4. Press the **TARE** key. The display shows zero weight and turns the TARE annunciator on.
5. Place the material to be weighed in the container and allow the weight indication to stabilize.
6. Read the weight shown on the display.
7. You may toggle between the gross weight and the net weight by pressing the **NET/GROSS** key.
8. To remove the tare weight, take all items off the scale and press the **TARE** key. The display shows zero weight and turns the ZERO annunciator on.

Piece counting operation:

This mode is used to display the number of pieces of an item you have placed on the scale's platter. To ensure accuracy, the parts you are counting must be consistent in weight.

The scale uses a sampling method to determine the average piece weight of the items you wish to count. When sampling items, always count the parts in your hand and place them on the platter all at once.

1. Remove all items from scale and switch **OFF**.
2. Switch scale back **ON**.
3. Toggle to piece counting mode, which is signified by an arrow pointing to the PCS annunciator. You may need to press the **UNITS** key more than once to get into this mode.
4. Press the **NET/GROSS** key. The scale displays the message "S= 10". This is the sample size.

NOTE: If you wish to change the sample size, simply press the **NET/GROSS** key repeatedly until the desired sample size appears. Available choices are 10, 20, 50 and 100.

5. Place the sample items on the platform all at once.
6. Press the **UNITS** key. The scale shows "CAL" briefly followed by the number of pieces just sampled.

Operation / Continued

Possible Scale Operation Error Messages

Message	Explanation
"unSt"	Indicates that the scale is unstable at start-up. Try moving the scale to a stable table in an area with no drafts or vibrations.
"ErrE"	Indicates that the scale found an internal fault at start-up. Possible loss of calibration data. Contact Transcell service department.
"outZ"	Indicates that the scale found an item whose weight is greater than 20% of capacity on the scale platter at start-up. Remove item to resume normal operation.
"EEEE"	Indicates that the weighing capacity of the scale has been exceeded. Remove overweight item.
"LLLL"	Indicates that the scale found an internal fault at start-up. Possible load cell damage. Contact Transcell service department.
"HHHH"	Indicates that the scale found an internal fault at start-up. Possible load cell damage. Contact Transcell service department.

Specifications

Construction:

Housing: Gray ABS
Sub-Platform: Metal
Platter: Gray ABS
Feet: Non-skid Hard Rubber

Display:

5-1/2 Character, 7-Segment LCD
8 Annunciators

Keypad:

5-key Tactile

Platter Size:

0.5M: 4.5" (114 mm) diameter round
5M: 8" x 5-1/4" (201 mm x 135 mm)

Over Capacity Annunciation:

9d over scale capacity

Main Power Source:

Four (4) AA size alkaline batteries

Auto Power Off Period:

Fixed at two minutes

Weight:

Net Weight: 2.00 lbs (0.92 kg)
Shipping Weight: 2.85 lbs (1.28 kg)

Operating Temp. Range:

32 °F to 104 °F (0 °C to 40 °C)

Calibration

Your ESWL Series 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. The ESWL must be calibrated with a precision test weight equal to the capacity of the scale. Refer to Page 2 for available capacities.

To calibrate the scale:

1. Remove all items from the platter and turn the scale OFF.
2. Press and hold the **ZERO** key to turn the scale back ON. The scale shows some numbers on the screen.
3. Press the **ZERO** key. The scale then shows "ZERO" followed by the maximum capacity of the scale, e.g. 500 g or 5000 g depending on model.
4. Place the appropriate test weight (500 g or 5000 g) onto the platter.
5. Press the **ZERO** key to save the test weight calibration value. The scale shows "CAL" briefly followed by a "PASS" message.

NOTE: If the scale displays an "ErrC" message, the scale is not detecting enough weight internally. Check your test weight. Otherwise, possible damage to the load cell; scale may require service.

6. You must now re-start the scale (turn OFF and back ON again). Your ESWL is now calibrated and ready for use.

Limited 12 month Warranty

This product is warranted by Transcell Technology against manufacturing defects in material and workmanship under normal use for twelve (12) months from the date of purchase. For complete warranty details and service information, please contact us at the address below.

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