

SPC Series

Digital Scale

Operation Manual

Revision 1.0
August 17, 2000

Transcell Technology inc.



Use only the AC adapter which comes with the scale. Other adapters may cause damage.

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



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

If the scale is not to be used for a long period of time, remove the battery 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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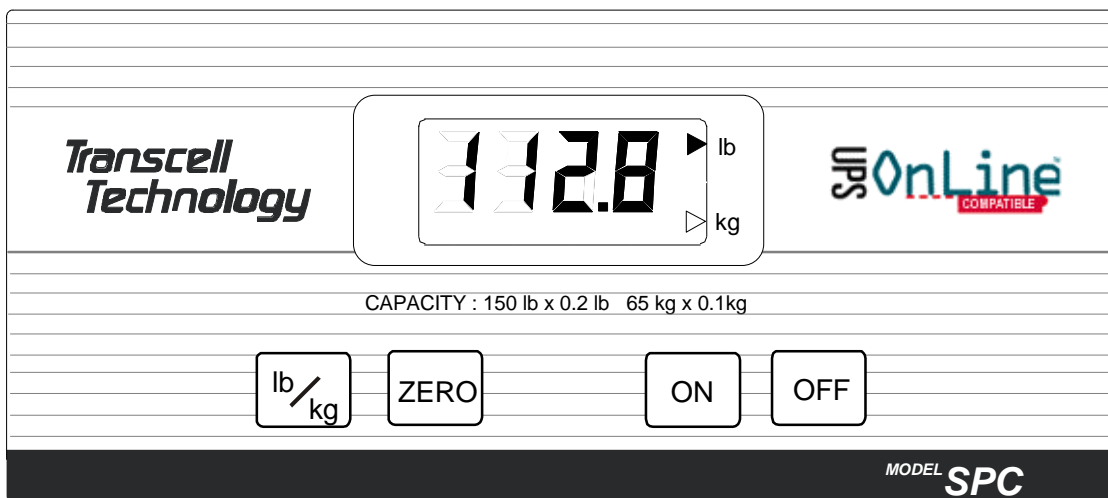
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Getting Started

1. Plug the AC Adapter into the scale first, then into an AC outlet. For portable operation, install one 9V alkaline battery (not included) in the battery compartment located underneath the scale base.
2. Place the scale on a stable and firm table or floor.
3. If you are using the scale with UPS Online software:
 - a. Connect the optional NMC-1 interface cable between the scale and your PC.
 - b. Configure the UPS Online software for a Fairbanks 70-2453-4 scale.
 - c. Configure the UPS Online software for the following communication parameters: 9600 Baud, 7 Data Bits, Odd Parity and 1 Stop Bit.
4. Press the ON key. All segments will briefly appear, followed by the version code and finally an indication of zero weight. The scale is now ready for use.

Keyboard and Display Diagram



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. Place the item on the center of the scale's platter and allow the weight indication to stabilize.
3. Select the desired unit of measure by pressing the **lb/kg** key.

Operation / Continued

How to enable or disable the automatic turn off function:

When the automatic turn off function is enabled, the scale will automatically shut itself off to preserve battery life after two minutes of inactivity. **NOTE:** When the scale is shipped from the factory, the automatic turn off feature is disabled.

1. Turn the scale OFF.
2. Press and hold the **ZERO** key while turning the scale back ON. The scale displays the new status of the automatic turn-off function.

“A ON” means that the auto turn-off function is now enabled.

“A OF” means that the auto turn-off function is now disabled.

3. Repeat step #1 until the automatic turn off feature is enabled or disabled as required.

Message	Explanation
“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.
Err 2	The scale's calibration information has been lost. Re-calibrate scale.
“_ “	Indicates that the negative number is beyond the display's capability (-99.9).

Possible Scale Operation Error Messages

MODEL	CAPACITY / GRADUATION
SPC-150	150 x 0.2 lb (65 x 0.1 kg)
SPC-400	400 x 0.5 lb (180 x 0.2 kg)
SPC-65M	65 x 0.1 kg (150 x 0.2 lb)
SPC-180M	180 x 0.2 kg (400 x 0.5 lb)

SPC Series Product Matrix

Specifications

CONSTRUCTION:

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

DISPLAY:

4 digit, 7-segment LCD

KEYPAD:

4-key Tactile Keypad

OVER CAPACITY ANNUNCIATION:

103% of Full Scale Capacity

SERIAL PORT:

Full Duplex, RS-232, Female DSUB9

OPERATING TEMPERATURE RANGE:

68°F to 77°F
(20°C to 25°C)

MAIN POWER SOURCE:

AC Adapter, 9VDC, 100 mA,
included

ALTERNATIVE POWER SOURCE:

9V alkaline battery, replaceable

WEIGHT:

Net Weight: 9.3 lb (4.2 kg)
Shipping Weight: 10.7 lb (4.9 kg)

Calibration

Your SPC 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. Transcell recommends that you perform a new calibration on your digital scale at least once a year. The SPC must be calibrated with the precision test weight specified in the table below.

To calibrate the scale:

1. Remove all items from the platter and turn the scale OFF. Press and hold the **lb/kg** key while turning the scale back ON.
2. When the scale shows "CAL0" you may release the **lb/kg** key.
3. Press the **ZERO** key, followed by the **lb/kg** key. The scale then displays "CAL1" followed by the necessary calibration test weight.
4. Place the appropriate test weight on the platter and wait three seconds.
5. Press the **lb/kg** key to save the test weight calibration value.
6. Once the test weight 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 SPC is now calibrated and ready for use.

MODEL(S)	CALIBRATION TEST WEIGHT
SPC-150/400	50 Pounds
SPC-65M/180M	20 Kilograms

Test Weight Values

Warranty and Service Information

Seller warrants that the SPC Series Digital 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.