SALTER Brecknell

SPC Series

Digital Scale
Operation Manual

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Contents subject to change without notice.

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⚠ **WARNING**

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.

⚠ *CAUTION*

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.
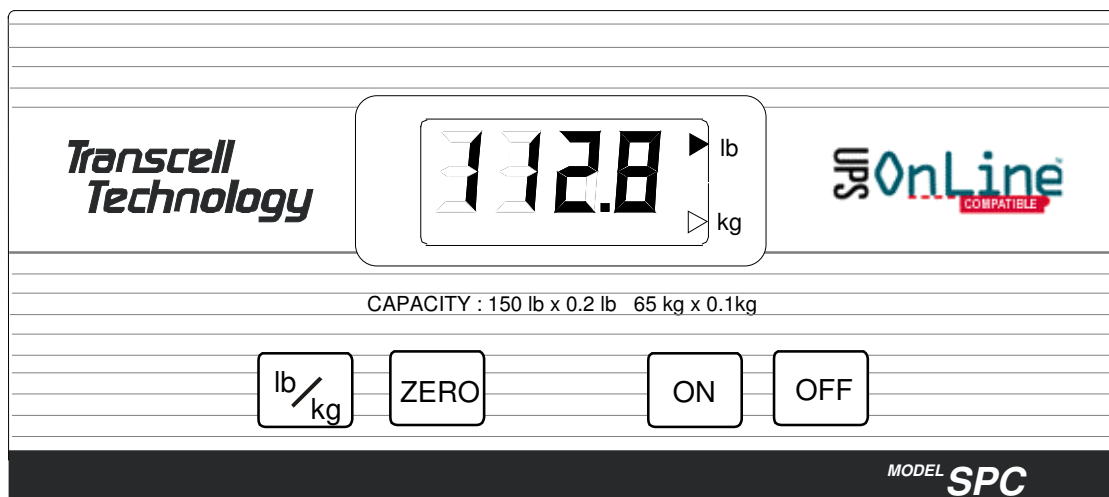
NOTICE:

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.

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.
bAtt	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