SALTER Brecknell

User Manual

Models 7010SB
**PC Interfaced Postal Scale**

UNPACKING YOUR SCALE

Carefully unpack and inspect the shipping container for evidence of shipping damage. If such evidence is discovered, stop unpacking and immediately notify the shipper to arrange to have the shipment inspected by an authorized representative. All damages must be promptly filed with the shipper.

1. Open the box and carefully remove the scale from the shipping carton (save the shipping carton for future use).

2. Place the scale on a flat level surface free from vibration.

3. Remove the AC adapter and the RS-232 interface cable from the packaging material.

4. Before using your scale please plug the scale into a power outlet and turn on the scale for 10 minutes. This will allow the scale to warm-up and ensure accurate weighing.

INSTALLING THE BATTERY

Use **9V ALKALINE BATTERY ONLY**
No other type provides a suitable power output.
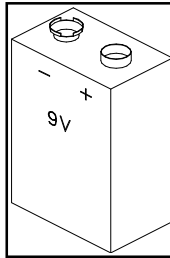
To fit the battery, remove the cover on the underside of the scale and push the connector firmly onto the battery terminals. Refit the cover.

1
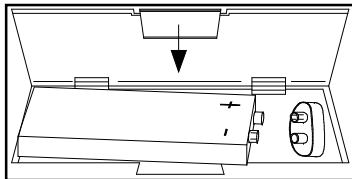
TECHNICAL SUPPORT
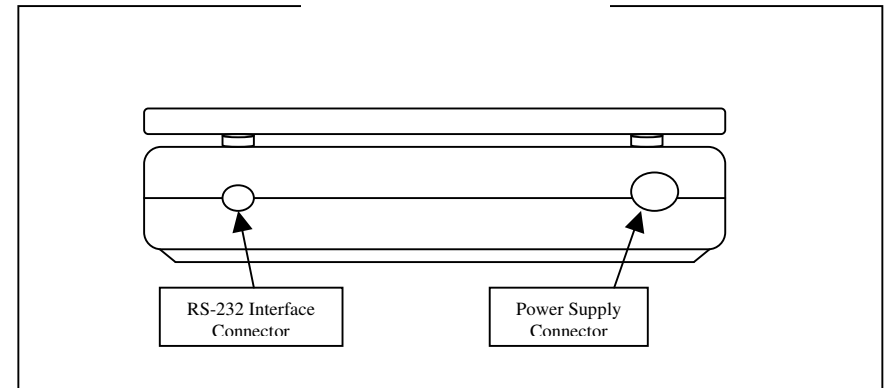
For technical support please contact us:

Via Phone- 507-238-8702 or 1-800-637-0529

Via Fax – 507-238-8271 or 1-800-368-2042

E-mail- sales@salterbrecknell.com

SET-UP INSTRUCTIONS

1. Apply power to the scale by first plugging the round connector into the scale (see below), then plugging the square AC adapter into an outlet.

RS-232 Interface Connector

Power Supply Connector

2. Select an unused Serial DE-9 Communication Port located on the back of your PC (COM 1, 2, 3 or 4) and attach the communication cable provided to your PC. Attach the other end of the communication cable to the 7010SB scale in the SMALL plug jack located in the rear of the unit. See below:
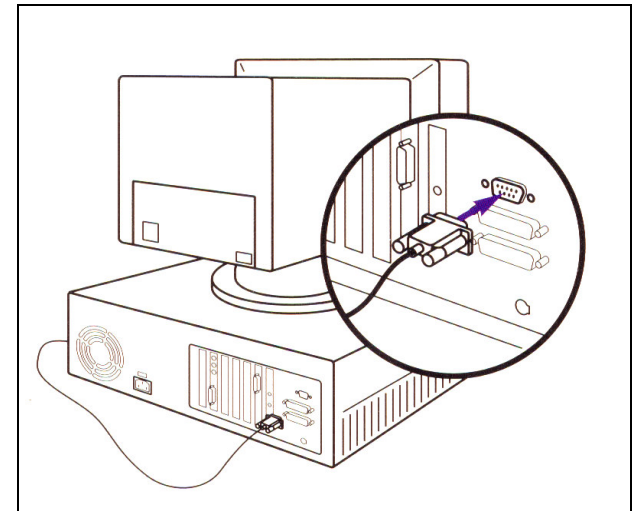
FUNCTION KEYS

The Model 7010SB has three function keys to operate the scale. They are ON/OFF (TARE), WT HOLD, and LB-OZ/ GRAMS.

ON/OFF (TARE) KEY:

The ON/OFF (TARE) key performs three functions. First it applies power to the scale; second it tares the weight on the scale to zero; third it will turn off the scale.

To use the "tare" feature:

1. Place an empty container on the weighing platform.

2. Press the ON/OFF (TARE) key. The scale will display zero weight.

3. When an item is placed on the container, the scale only displays the weight of the item, not the weight of the container.

4. To reset the scale for no tare, remove the container and its contents from the weighing platform. Press the ON/OFF (TARE) key, then to reset the scale to zero weight.

The tare function will work over the full weighing range of the scale but will not extend the overall capacity of the scale.

Important Note: It is recommended to press the "ON/OFF (TARE) key" before placing an item on the scale. This will help ensure accurate weight readings.

To turn off the power to the scale:

1. Press and hold the ON/OFF (TARE) key for 5 seconds. The display will no longer show any weight, indicating the scale is powered off.

LB-OZ/ GRAMS:
The LB-OZ GRAMS key is to switch between weighing lb-oz and grams, it is also used for entering into the calibration mode.

ZERO THE SCALE:
The proper method of zeroing the scale is to press the "ON/OFF (TARE)" key.

MODEL 7010SB TECHNICAL SPECIFICATIONS

Construction:	ABS Plastic
Capacity:	0-5lb. 8oz x 0.1 oz. / 5lb 9oz -9lb x 15.5oz x 0.5oz 0-2500g x 5g / 2501-5000 x 10g (grams mode)
Accuracy:	+/- 2 divisions (0.2oz / 10g) / (1.0oz/ 20g)
Display:	Large LCD
Unit Size:	8"W x 7.5"L x 2"H
Platter Size:	8"W x 5"L
Keypad:	Membrane switch with ON/OFF (Tare), WT HOLD and LB-OZ/ GRAMS.
Power Supply:	120 VAC, 60Hz Ac adapter with 6' power cord or 9 volt battery (battery not included)

CLEANING AND CARE

1. Handle the scale with care. Dropping the scale may cause damage to the loadcell, which will not allow the scale to weigh properly. This type of damage is considered abuse and violates the product warranty.

2. To avoid damage to the loadcell, never place objects on the scale that exceed 10 pounds.

3. Clean the scale with a slightly damp cloth. DO NOT immerse the scale in water or use chemical/abrasive-cleaning agents.

4. If the scale is not being used for a long period of time, remove the battery or turn off the scale.

WARRANTY

This product has a 90-day warranty from the date of delivery against defects in material and workmanship. This warranty does not apply if the product was subject to misuse, neglect, damage or abuse. Calibration is not covered under warranty.

SCALE CALIBRATION INSTRUCTIONS

Periodically your scale may require calibration to ensure proper weighing. You will need a 10-pound weight to calibrate the scale. If calibration is performed with a weight other than 10 pounds, it will cause your scale to weigh inaccurately. Scale calibration is accomplished, when needed, by the following instructions:

Function   Scale Response

1. Remove all weight from the scale

2. Press and hold the "ON/TARE" key and
press the "lb-oz/grams" key once . . . ." . . .SLP0/SLP1"

3. Press the "ON/TARE" once to accept the
sleep mode setting and enter into calibration mode. . . ."4000 – 10000"

4. Press the "ON/TARE" key once
to zero the scale. . . . ."0"

5. Place 10 lbs on the scale . . . ."6400 - 10,000"

6. Press "ON/TARE" key once
to accept the calibration weight . . . ."CAL" then * "Err"

7. Remove the weight from the scale, press the "ON/TARE" key to continue the normal weighing mode.

> * **Note:** The "Err" displayed after completing calibration <u>does not</u> indicate a calibration error. Since, the scale only weighs up-to 9 lbs. 15.5 oz., the ten pounds on the scale causes the displayed message "Err

INTERFACING TO A PC

The Model 7010SB interfaces to several Mailing and Internet Postage Software Programs. A driver is not available from Salter Brecknell, please contact the software manufacturer for their 7010 or 7010SB scale driver.

Salter Brecknell does offer a Active X control for you to develop your own interface driver. ActiveX allows programmers to assemble reusable software components into application programs.

ActiveX components must be used is a (32-bit) ActiveX compliant development environment such as Microsoft Visual Basic 5,0, Visual C ++, Office 97, Visual FoxPro, Borland Delphi and others.

To download the ActiveX Component and other use tools to help you write and interface to the 7010SB. Visit our web site at www.salterbrecknell.com

Salter Brecknell can only offer limited support to software developers.

INTERFACE SPECIFICATIONS

Communications: RS-232, No-Handshake, continuous transmit only.
            Fixed 2400 Baud, 8 data bits, No parity, 2 stop bits.
            Fixes ASCII character continuous transmission.

Weight and Status Response: **<STX> X** X X **# # # # <CR>**

STATUS BIT DEFINITIONS

S6 S5 S4   Definitions:

0   0   0   n/a

0   0   1   n/a

0   1   1   weight is in pounds: ounces

1   0   0   weight is in grams

To download more detailed interface specifications, please visit our web site at www.salterbrecknell.com, 7010SB serial communications protocol.

TROUBLE SHOOTING

Symptom	**Recommended Action**

Not weighing correctly OR
Inaccurate weight. . . . . Press "ON/OFF (TARE)" key, to zero the scale
before placing an item on the scale.

OR

The scale may need re-calibration.
See calibration instructions, page 5.

Weight fluctuates . . . . Press "ON/OFF (TARE)" key, to zero the scale
before placing an item on the scale.

OR

Ensure scale is placed in a stable, level
environment free from vibration.

"Lo" is displayed. . . . . Replace the battery.

"Err" is displayed . . . . .The weight placed on the scale is over
9 lbs 15.5 ounces. Remove the weight
from the scale.

OR

The weight placed on the scale plus the Tare
weight is over 9 lbs 15.5 ounces. Remove the
weight from the scale.

After pressing the "WT HOLD"
Key and placing a weight on the
scale, the weight will not hold in the
display. The " **:** " continues to
flash. . . . . .Remove weight from scale and place the weight
in the center of the scale.

"- - - -" is displayed . . . . The scale is under zero weight. Press the
"ON/OFF (TARE)" key. If problem is consistent
your scale may require calibration, see page 5.

WT HOLD KEY:
This key is used when you are unable to view the displayed weight because an item is larger that the weight platter and display. Pressing this key will hold the stable weight in the display.

To use the "Weight Hold" feature:

1.   Remove all items from the scale, making sure the scale is at zero weight.

2.   Press the "WT HOLD" key. The scale will display "**: 0.0". The ":**" will flash indicating the weight hold feature is active.

3.   Place an item on the scale, wait two seconds for the weight to become stable.

4.   When the weight becomes stable, the " **:** " will no longer flash.

5.   Remove the item, from the scale. The weight of the item will be held in the display.

6.   To remove the held weight, press the "WT HOLD" key.

NOTE: Only the held weight will transmit, when interfacing to a PC.

SLEEP MODE CONFIGURATION

The default setting for sleep mode is Off (SLP0). The sleep mode can be configured to On (SLP1) via keyboard. If there is no activity, the scale will turn itself off after 30 seconds.

The sleep mode can be changed, when needed, by the following instructions:

Function	Scale Response

Remove all weight from the scale

Press and hold the "ON/OFF (TARE) key
and press the "LB-OZ/GRAMS" key once . . . . "SLP0" (OFF)

Press the "LB-OZ/GRAMS" key to scroll
to the next selection . . . ."SLP1" (ON)

Press and hold the "ON/OFF (TARE)" key for 5 seconds to accept the
sleep mode setting and exit the configuration mode.