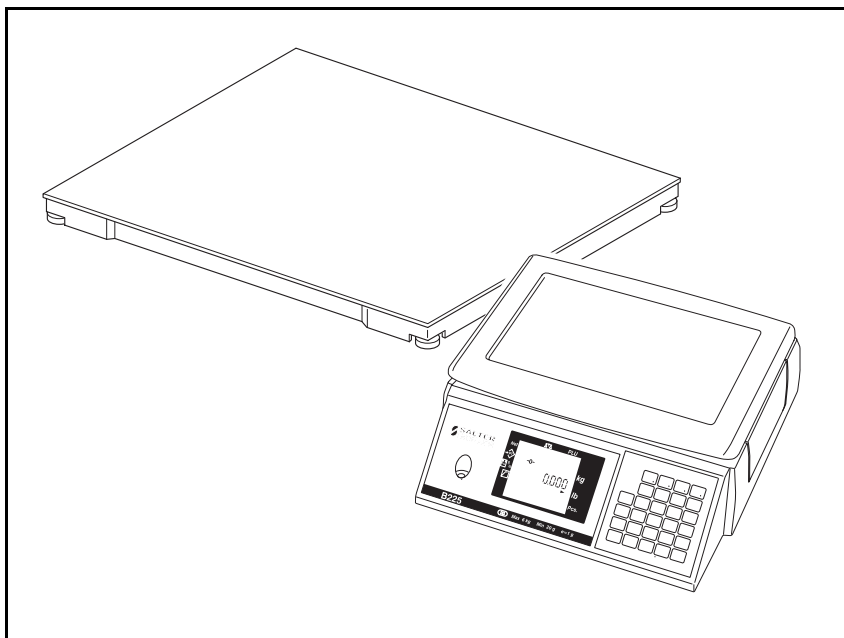


B225

Counting scale



User Instructions

ENGLISH - NORTH AMERICA



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Avery Weigh-Tronix and Salter Brecknell are trading names of Avery Berkel Limited.

Declarations of compliance

United States

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 instruction 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 own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

1 Warnings

Electrical installation

For your protection, all mains (110V or 230V) equipment used where damp or wet conditions may occur, must be supplied from a correctly fused source and protected by an approved ground fault protection device (RCD, GFCI etc.).

IF IN DOUBT SEEK ADVICE FROM A QUALIFIED ELECTRICIAN.

To avoid the possibility of electric shock or damage to the machine, always isolate from the mains power supply before carrying out any routine maintenance.

Cleaning the scale

Harsh abrasives, solvents, scouring cleaners and alkaline cleaning solutions, should not be used especially on the display windows. Under no circumstances should you attempt to wipe the inside of the machine.

The outside of the machine may be wiped down with a clean cloth moistened with water containing a small amount of liquid soap.

EMC compliance

The following warning may be applicable to your machine.

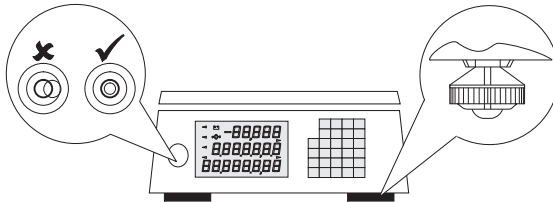
WARNING: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

2 Installation

1. Hold the scale by the base when picking up. Do not pick up the scale by the weighpan or cross.



2. Adjust the feet if the scale is not level.



Installation location

Make sure that the work surface is firm, steady and free from drafts.

CAUTION: Indoor installation only. None of the equipment and its associated wiring is suitable for installation outdoors where it may be exposed to rain or lightning.

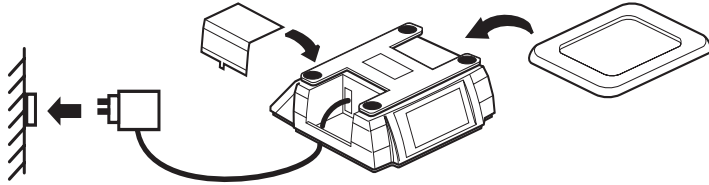
Repetitive strain injury

To avoid the risk of RSI (Repetitive Strain Injury) it is important to ensure that the machine is placed on a surface which is ergonomically satisfactory to the user. In cases where usage is prolonged we recommend frequent breaks for the user.

3 Connections

Connecting to the mains

Connect the power lead as shown in the diagram below.

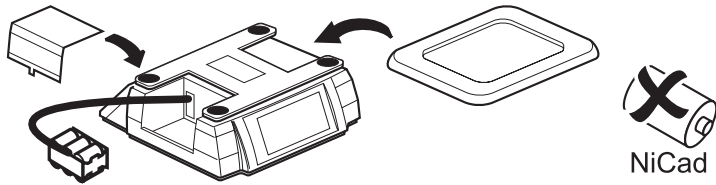


Ensure that compartment cover is replaced and secured.

Caution: Use only the power adapter supplied for this specific machine.

Connecting batteries

Connect the battery pack (6 x 1.5V 'D' size cells) as shown in the diagram below.



Ensure that compartment cover is replaced and secured.

Caution: To avoid damage to the scale caused by leaking batteries, remove flat or damaged batteries immediately.



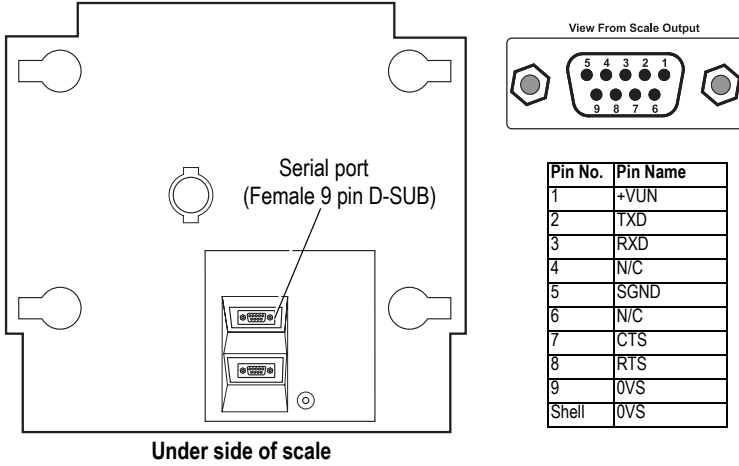
Replace (or recharge) batteries when legend flashes

Peripheral connections

All peripheral cables must be secured using screwlocks.

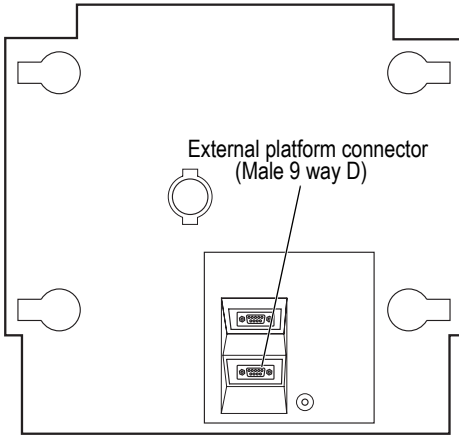
Printer connection

You can connect an ASCII serial printer to the B225 using the serial (COM) port on the underside of the scale.

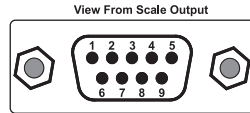


Remote platform connection

You can connect a remote platform to the scale via the connector on the underside of the scale.



Under side of scale

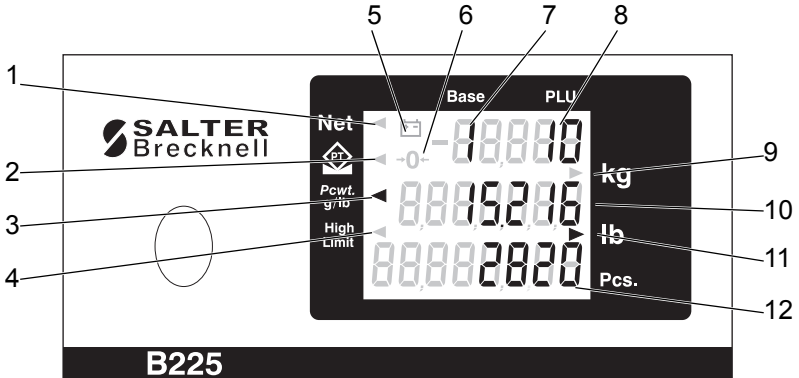


Pin No.	Pin Name	Color
1	Sig -	Red
2	Sig +	White
3	Ex +	Green
4	Ex -	Black
5	Sense +	Yellow
6	N/C	
7	N/C	
8	Sense -	Blue
9	GND	
Shell	GND	

Note: For further information on compatible printers, platforms and cables, contact your local Salter Brecknell centre.

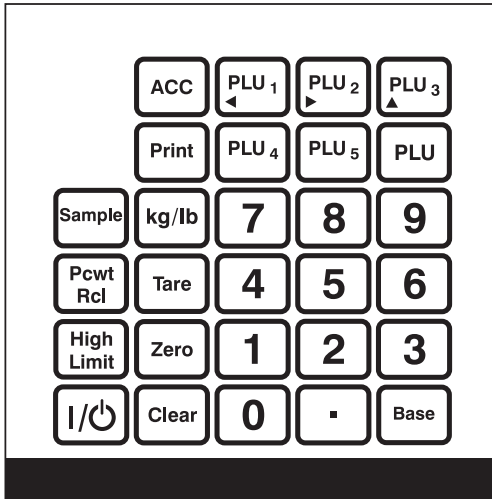
4 Displays and keys









Display



1. **Net.** Indicates an active tare (weight displays net value).
2. **PB Tare.** Indicates a keyboard entered tare.
3. **Piece weight.** Weight displayed is the current piece weight.
4. **High Limit.** Value displayed in line 2 is the high limit count, as set by the operator.
5. **Battery.** Scale is operating on battery power.
6. **Zero.** Indicates zero gross weight.
7. **Display line 1.** Current base (platform) number.
(1 = Local (integral)
(2 = Remote platform)
8. **Display line 1.** Current PLU number.
9. **kg.** Weight displayed is in kg.
10. **Display line 2.** Weight display.
11. **lb.** Weight displayed is in lb.
12. **Display line 3.** Count / accumulate value.

Keys



-  **Sample.** Calculate piece weight from a sample quantity.
-  **Piece.** Set / view piece weight value.
-  **High Limit.** Set / view the count high limit value.
-  **Accumulate.** View total / add current count to stored total.
-  **Sleep / Reset.** Sleep /Reset or display test button.
-  **Print.** Print the current weight.
-  **Unit select.** Select between lb or kg as the displayed unit of weight.
-  **Tare.** Set a tare value.

Zero **Zero.** Zero the scale.

Clear **Clear.** Clear / Cancel.

Base **Base.** Dual platform scales - select active platform.

PLU **PLU.** Select a PLU.

0 ... **9** **0 - 9.** Numeric keys.

5 Operation

Dual platform operation

For dual platform operation the scale will have 2 weighing devices; the local scale and a remote platform (e.g. for weighing bulky or heavy items).

Each platform can have its own tare information, while the selected PLU, piece weight and accumulate information are common to both.

This means that you can measure the sample weight of the product using the integral platform and then use the remote platform for counting the required quantities.

Switch between local and remote platform.

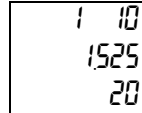
When switching between the integral and remote platform, the piece weight and total remain current. The tare is stored, and the appropriate (different) tare recalled for the new platform.

To toggle between the integral weighpan and a remote platform.

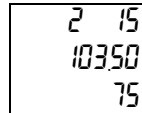
1. Press and hold the base key.



E.g.
Local scale
using PLU 10



E.g.
Remote platform
using PLU 15



Please remember

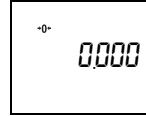
- For all operations on a dual platform system, ensure that the appropriate platform (integral or remote) is selected prior to starting the operation.

General

Zero the scale

Ensure that the scale is at zero before weighing

1. Remove any weight from the scale and press the Zero key.

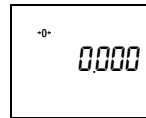


Clear

Clear all active PLUs, tares and item weights

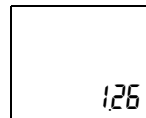
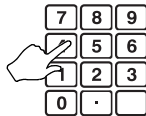


Press and hold until double beep



Clear a numeric entry

1. Enter Value

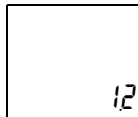


2. Clear Entry

Clear last digit



Short press



OR

Clear entire entry



Long press



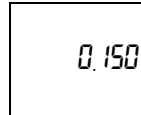
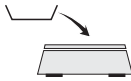
Tares

Tares are used to take into account the weight of any container in which the goods are weighed.

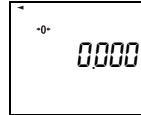
For scales with a remote platform, separate tare values are stored for the integral and remote platforms.

Create a tare.

1. Zero the scale.
2. Place container on the scale.

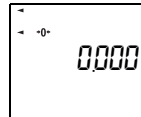
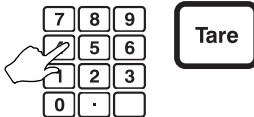


3. Press the tare key.



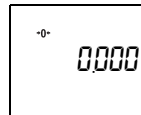
Create a keyboard entered tare

1. Zero the scale.
2. Enter a tare value and press the tare key.



Cancel a tare

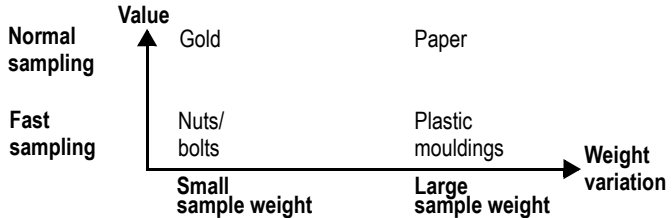
1. Remove all weight from the scale and press the tare key.



Sampling

This enables you to find a piece weight by weighing a sample quantity of the items to be counted.

The method that you use to sample will depend on the value of the items and any variance in weight.

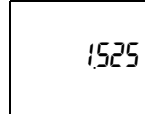


When sampling items that have a large weight variation it is advisable to use a large sample size and either manual or automatic re-sampling.

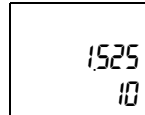
Fast Sampling

The greater the number of items used to sample with, the more accurate the scale will be.

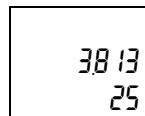
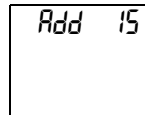
1. Zero the scale and place the sample on the weighpan.



2. Enter the quantity and press the sample key.



Note: The scale may request additional items to meet a minimum sample weight (see minimum sample weight on [page 31](#)). e.g:



The scale is now ready for counting.

Normal sampling

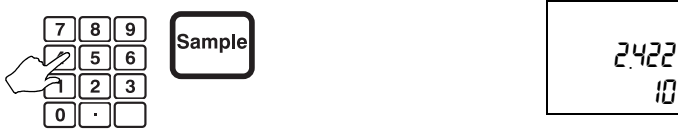
1. Zero the scale and place the sample on the weighpan.



2. Press the sample key, then add or remove a quantity of items.



3. Enter the quantity added or removed and press the sample key.

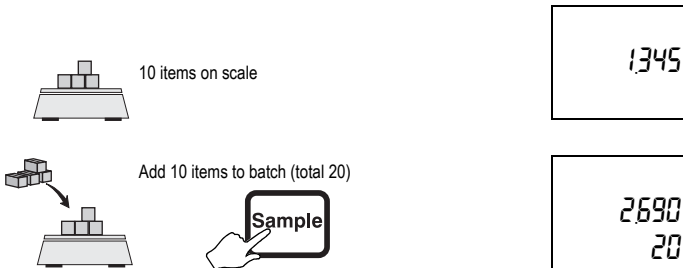


The scale is now ready for counting.

Re-sampling

You can re-sample at any time. For example you can increase the sample size to improve the count accuracy.

1. Add the required quantity and press the sample key.



Keyboard entered piece weight

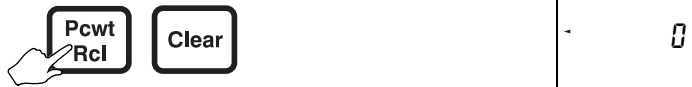
1. Enter the required piece weight and press the piece weight key.



Note: You can view the current piece weight value at any time by pressing the piece weight key.

Clear the piece weight

1. Press the piece weight key followed by the clear key.



Counting

Before counting you must either sample a quantity (see [page 15](#)) or enter a piece weight (see [page 17](#)).

Basic count

To count a quantity of goods:

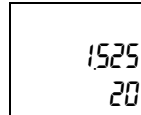
1. Zero the scale and place the goods on the weighpan.



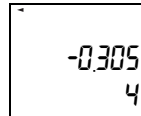
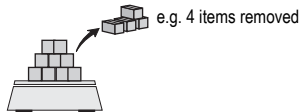
Reverse / batch count

Count goods as they are removed from the scale:

1. Zero the scale and place the total quantity of goods on the weighpan.



2. Tare the scale, then remove the required quantity of goods.

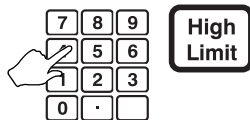


For batch counting repeat step 2 for as many batches as are required.

High Limit

You can set a high limit value for the count. Once the scale count exceeds the high limit value the scale will sound a warning bleep.

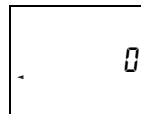
1. Enter the required limit (No of items) and press the high limit key.



Note: You can view the high limit value at any time by pressing the high limit key.

Clear the high limit

1. Press the high limit key followed by the clear key.



Accumulates

Accumulating

The scale will store a cumulative total quantity for goods weighed during a number of transactions:

e.g:

1. Zero the scale and place the goods on the weighpan.



2. Press the accumulate key.



3. Remove goods (or press tare key).



4. Proceed with the subsequent quantity.



5. Press the accumulate key.



6. Repeat steps 3 - 5 for as many transactions as required

The total can be reviewed at any time by pressing the accumulate key.

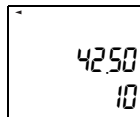
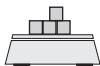
Clearing the accumulator

To clear the stored total press the Accumulate key, followed by the Clear key.



Printing

To print the current weight and count press the print key.



Example print

```
0042.50 1b  
0000010  
004.250 1b
```

Note: For printer connection see [page 6](#); to configure the print format see [page 33](#)

PLUs

PLUs (Product Look Up) are used to store piece weight, tare weight and other information regarding goods. These can then be recalled when required.

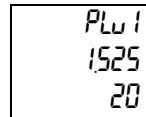
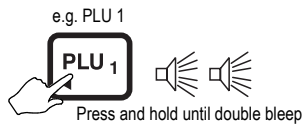
The scale can store up to 25 PLUs.

Programming a PLU

Quick access PLU (1-5)

To program a PLU with its own key:

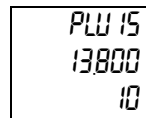
1. Set a sample (piece) weight and any tare weight in the usual manner. (See [page 14](#) and [page 15](#) for more details)
2. Press and hold the required PLU key.



PLUs 6-25

To program a PLU:

1. Set a sample (piece) weight and any tare weight in the usual manner. (See [page 14](#) and [page 15](#) for more details).
2. Enter the required PLU number, then press and hold the PLU key.

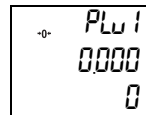
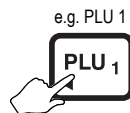


Using a PLU

Quick access PLU (1-5)

To recall a PLU with its own key:

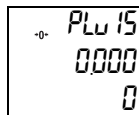
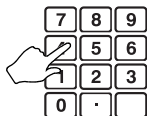
1. Press the required PLU key.



PLUs 6-25

To access a PLU:

1. Enter the required PLU number, then press the PLU key.

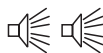


Clearing a PLU

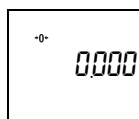
Quick access PLU (1-5)

To clear a PLU with its own key:

1. Remove all weight from, then clear the scale.



Press and hold until double beep

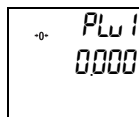


2. Press and hold the required PLU key.

e.g. PLU 1



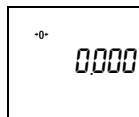
Press and hold until double beep



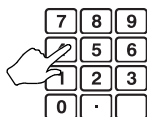
PLUs 6-25

To clear a PLU:

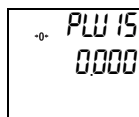
1. Remove all weight from, then zero the scale.



2. Enter the required PLU number, then press and hold the PLU key.



Press and hold until double beep



Sleep mode

The scale has a power save (sleep) mode. This can be activated either after a set period of inactivity (see [page 30](#)), or manually at any time.

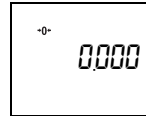
To put the scale into sleep mode:

1. Remove all weight from the scale, then press and hold the reset key.



To exit sleep mode:

1. With no weight on the scale, press the reset key.



Note:

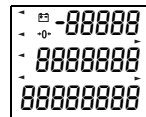
On dual platform systems the scale will revert to the integral weighpan (base 1).

Reset

If the scale is not configured to use sleep mode (see [page 31](#)), the reset key can be used to activate a scale reset.

To reset the scale:

1. Remove all weight from the scale, then press and hold the reset key.



Note:

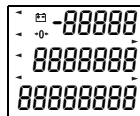
On dual platform systems the scale will revert to the integral weighpan (base 1).

Display test

Activates a test display for a few moments.

To activate the display test:





















1. Press the reset key.



6 Management mode

Management mode is used to configure the scales operation

Access and navigation

Typical display	
Branch	
Navigation / key functions	
When in management mode, the following keys are used:	
 6 2 3 1	Enter management mode.
	Next sub-branch. / Accept Entry
  	Next branch.
Press and hold until double beep	
	Previous sub-branch.
  	Previous branch.
Press and hold until double beep	
	Select value to be changed.
  	Return to branch 6.00.
Press and hold until double beep	
	Increment value (by 1).
  	Multiply value by 10.
Press and hold until double beep	
	Change value.
 	Exit management mode.



Important: Make a note of your configuration settings before making any changes. In the event of a mistake you can then easily return to the previous configuration.

E30 error.


If you do not exit management mode correctly you will see an E30 error message. See [page 40](#) for error message details.





E200 error.

Some changes to configuration will cause the scale to bleep rapidly and display an E200 error for up to 10 seconds. This happens while the scale updates its configuration files, and is a normal part of its operation.

Making / Saving your settings - Example


1. Enter management mode.


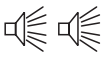


600
1


2. Use the arrow keys to select the required branch & sub-branch.




2000
4


Press and hold until double beep







2002
1


3. Make the required change.






2002
0






2002
2

4. Press right arrow to accept entry.








2003
10

Repeat steps 2 - 4 until all required changes have been made.

5. Exit management mode when finished.



- - - - -
- - - - -
- - - - -
- - - - -

6 Management mode

Keyboard bleeper 19.01

Enable / disable keyboard 'bleep'.

Value (* = Default)

0	Off	1*	On
---	-----	----	----

Weight limit bleeper 19.02

Beeper will sound when the high limit count is exceeded.

Value (* = Default)

0	Off	1*	On
---	-----	----	----

Error bleeper 19.03

Beeper will sound under error and weight over range conditions.

Value (* = Default)

0	Off	1*	On
---	-----	----	----

Bleeper volume 19.04

NOT APPLICABLE

Value (* = Default)

0	Quiet	1*	Loud
---	-------	----	------

Backlight time 20.00

The backlight can be set to turn itself off after a certain period of inactivity.

Value (* = Default)

0	Always off	3	5 minutes
1	5 seconds	4	Always on
2*	1 minute		

Sleep time 20.01

The scale go to sleep mode after a certain period of inactivity.

Value (* = Default)

0*	Sleep mode disabled	2	5 minutes
1	1 minute	3	30 minutes

Sleep / Reset enable key 20.02

Select how the reset / sleep key will operate.
(Long key press of the display test key)

Value

0	Reset	2*	Sleep mode (Batteries)
1	Sleep mode		Reset (Mains power)

LED brightness 20.03

NOT APPLICABLE

Value (* = Default)

10*	Default LED Brightness
-----	------------------------

Long press duration 29.00

Change the length of time for a 'long' keypress.

Value = time in 100ths of a second e.g:

50*	1/2 second	200	2 seconds
150	1.5 seconds		

Minimum sample weight 61.00

Set the minimum sample weight value.

Value in grams e.g: (* = Default)

0*	0g	1000	1kg
150	150g		

Manual re-sampling range 61.01

Set the permissible weight range for manual re-sampling.

Value = Function of percentage of initial sample size e.g: (* = Default)

10	100% of original	150	1500% of original
100	1000% of original	0*	Disabled

Automatic re-sampling range

61.02

The scale will automatically re-calculate the piece weight value, based on the measured weight and count values.

Set the permissible weight range for automatic re-sampling.

Value = Function of percentage of initial sample size e.g: (* = Default)

10 100% of original 150 1500% of original

100 1000% of original **0*** **Disabled**

Note: Auto re-sample will not work for keyboard entered piece weights.

Remote platform filter

Standard filter

64.00

Filter out noise from vibration etc.

Value

1 - 6 **(Default = 4)**

1 = Rapid display update, more susceptible to vibration.

6 = Slow display update, less susceptible to vibration.

Printer / serial configuration

Serial port configuration- Branch 36

This branch allows the values associated with the serial interface (if fitted) to be set as appropriate for connection of peripheral equipment (e.g. printer).

Long press duration 36.00

Interface hardware fitted:

Determines the type of hardware fitted.

Value (* = Default)

0 None

1* **RS232**

Baud rate 36.01

Baud rate

Value (* = Default)

0	300 baud	6-	19,200 baud
1	600 baud	7-	38,400 baud
2	1,200 baud	8-	125,000 baud (remote UI)
3	2,400 baud	9-	166,667 baud (remote UI)
4	4,800 baud	10	250,000 baud (remote UI)
5*	9,600 baud		

Data bits 36.02

Data bits

Value (* = Default)

0 Seven data bits (parity enabled only, see sub-branch 03)

1* **Eight data bits**

Parity 36.03

Baud rate

Value (* = Default)

- 0*** **None (Eight data bits)**
- 1 Even
- 2 Odd

Half / full duplex 36.04

Sets the RTS/CTS handshaking protocols.

Value (* = Default)

- 0*** **Full duplex mode - no RTS/CTS handshaking**
- 1 **Remote user interface setting** - Half duplex operation - RTS line set high when transmitting - else low (remote user use with RS485 interface)
- 2 Half duplex operation - RTS line set low when transmitting - else high (remote user use with RS485 interface)
- 3 RTS low, CTS ignore
- 4 RTS high, CTS ignore
- 5 RTS raise, CTS wait
- 6 RTS raise, CTS ignore
- 7 RTS low, CTS wait
- 8 RTS high, CTS wait

Printer configuration - Branch 38

Select printer type 38.00

Select the print format.

Value (* = Default)

- | | | | |
|------------|---|----|---|
| 35 | PC protocol. See PC protocol on page 38 . | 41 | DYMO |
| | | 42 | ZEBRA. See notes on page 37 . |
| 40* | IMP | | |

Note: For further information on compatible printers and configuration, contact your local Salter Brecknell center.

Select print format

38.01

Select the print format.
Value 1 - 8 (Default = 6)

Definitions and examples

Note: Examples shown are for standard ASCII (IMP) printers.

<p>1. Net weight only WWW.WW<CR><LF></p>	0042.50
<p>2. Net weight with units WWW.WW<SP>UU<CR><LF></p>	0042.50 lb
<p>3. GTN with units 'G' <SP>GGGG.GG<SP>UU<CR><LF> 'T' <SP>TTTT.TT<SP>UU<CR><LF> 'N' <SP>WWW.WW <SP>UU<CR><LF></p>	'G' 0052.50 lb 'T' 0010.00 lb 'N' 0042.50 lb
<p>4. Displayed count or weight with identifier In COUNT MODE, <SP> CCCCCC<SP>PCS<CR><LF> In WEIGH MODE, I<SP>WWW.WW<CR><LF></p>	000010 PCS
<p>5. Displayed weight with identifier and units In COUNT MODE, <SP> CCCCCC<SP>PCS<CR><LF> In WEIGH MODE, I<SP>WWW.WW<SP>UU<CR><LF></p>	'G' 0052.50 lb

6 Management mode

6. Net weight with units, count and piece weight WWW.WW<SP>UU<CR><LF> CCCCCC<CR><LF> PPPPPP<SP>UU<CR><LF>	0042.50 1b 0000010 004.250 1b
7. Count only with a fixed field format COUNT:<SP>CCCCCC<SP>PCS<CR><LF>	0000010 PCS
8. Net weight with units, count, piece weight, grand total and transaction count WWW.WW<SP>UU<CR><LF> CCCCCC<CR><LF> PPPPPP<SP>UU<CR><LF> GTO<CR><LF> TRN<CR><LF>	0042.50 1b 0000010 004.250 1b 1390 168

Print line feed

38.02

Select the number of line feeds after each print operation.

Value - 255 (Default = 6)

Zebra printers

ONLY APPLICABLE IF BRANCH 38.00 IS SET FOR 'ZEBRA' PRINTER TYPES (see [page 34](#)).

Zebra printers store print formats locally. The printer has its own 'Creator Label' software to manipulate the print format.

The B225 will transmit the following information to a Zebra printer, (to be formatted at the printer):

- Net weight
- Gross Weight
- Tare Weight
- Count
- Piece weight
- Accumulated total
- Transaction count

PC protocol

A PC can be connected to the serial port of the scale. The PC can then act as a remote terminal to control the scale, and display scale / weight information.

To set up the scale for PC protocol you must first configure the following:

- [Serial port configuration- Branch 36 on page 33](#)
- [Printer configuration - Branch 38 on page 34](#)

PC protocol commands and codes

The scale's RS-232 bidirectional communication works in a server/client protocol. A computer server sends a command code to the scale (client) which will return a response to the server device or perform a scale function. Commands to the scale are in uppercase, terminated with a carriage return. Scale responses begin with the lowercase equivalent of the command code.

COMMAND	RESPONSE	DESCRIPTION
CA<CR>	none	Clear Sample
CC<CR>	cc_xxxxx<CR>	Request piece count
CP<CR>	cp_xxxxx_uu<CR>	Request piece weight value
CM<CR>	none	Switch to count mode
Dlxxxxxxx<CR>	none	Display message xxxx (message is 8 characters max)
IC<CR>	none	Reset Scale (warm start)
PWx.xxxxx_uu<CR>	none	Loads xxsx.x as piece weight
TR<CR>	tr_x.xxx_uu<CR>	Request tare value
TZ<CR>	none	Clear the current tare
Txxxx.x_uu<CR>	none	Loads xxxx.x as tare
WD<CR>	ws_x.xxxx<CR>	Request net weight
WE<CR>	we_x.xxx_uu<CR>	Request net weight with units

COMMAND	RESPONSE	DESCRIPTION
W<CR>	we_x.xxxx_uuHML<CR>	Request net weight with units and status
WG<CR>	wg_x.xxx_uu<CR>	Request gross weight with units
WM<CR>	none	Switch to weight mode
WS<CR>	ws_HML<CR>	Request scale status
WZ<CR>	none	Zero the scale

Legend:

1. “_” represents the ASCII space character
2. “u” represents the units of measure character(s):
“LB” for pounds
“KG” for kilograms
3. <CR> represents the ASCII carriage return
4. **HML** represents three bytes of scale status information as described on the next page.
5. Value entered is assumed to be in the same units of measure as those set in the scale.
6. Display messages are limited to seven characters.

7 Error Messages

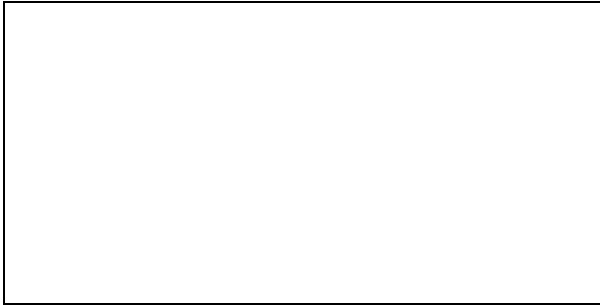
	If a persistent error message appears or the scale locks up, disconnect then reconnect the scale to the power supply. If the scale remains inoperative, contact your authorized service agent.				
Temporary error	Weight unsteady	Balance failed	Under range	Over range	

Error codes:

- E0 Scale requires reset. (Disconnect then reconnect power supply.)
- E5 Scale requires reset (Disconnect then reconnect power supply.).
- E10 Battery failure. Replace battery (do not use NiCad batteries).
- E11 Supply voltage is too high.
- E20 Weight error. Remove all items from the weighpan, then press and hold the clear key.
- E30 Management mode not exited correctly. Re-enter management mode, select the value to be changed, change the value and go to the next branch to accept the change.
- E40 Weight error. Remove all items from the weighpan, then press and hold the clear key.
- E42 Weight error. Remove all items from the weighpan, then press and hold the clear key.
- E100 Invalid PLU contents. Re-program the PLU.
- E102 PLU write failed. PLU is protected.
- E103 Tare error. Remove all items from the weighpan, then press and hold the clear key.

- E110 Piece weight error. Remove all items from the weighpan, then press and hold the clear key.
- E200 Saving configuration. Some changes to configuration will cause the scale to bleep rapidly and display this error for up to 10 seconds. This happens while the scale updates its configuration files, and is a normal part of its operation.

The address of your Salter Brecknell center is



This document contains a general guide only of the product and shall not form part of any contract unless specifically agreed by Salter Brecknell Weighing in writing in each case on the Order Acknowledgement. The specification of the products described herein may vary from time to time and may be altered without notice.



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